JOURNAL

OF

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BEING THE SEMI-ANNUAL SUPPLEMENT TO THE REPORT; OF
THE SUPERINTENDENT OF EDUCATION FOR

NOVA SCOTIA

APRIL, 1916.



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HALIFAX, NOVA SCOTIA, APRIL, 1916.

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I.—The JOUR NAL OF EDCUATION shall be published semiannually, in the months of April and October respectively, and shall continue to be the medium of Official Notices in connexion with the Department of Education.

II.—The JOUR NAL, which is the Semi-annual Supplement of the Education Report, will be furnished gratuitously, according to law, to each Inspector, Chairman of Commissioners and Board of Trustees; and will be supplied to other parties wishing it at the rate of ten cents a copy.

III.—Each Secretary of Trustees is instructed and required to file and preserve the successive numbers of the JOUR NAL for the benefit of his fellow Trustees and the Teacher or Teachers of his section, and their successors, and to inform his associates in office, and the Teacher or Teachers, of its receipt, so soon thereafter as may be convenient.

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Brooks, Blanche Eva

Adams, Mildred

Buckler, Alma

Burke, Mary S.

Fralic, Elsie

Gaul, Ethel

Covert, Stella M.

Downie, Helena G.

Hudgins, Minerva

Jackson, Annie L.

Knox, Perry McG.

Harris, Lillian Blanche

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PROVINCIAL AID

To Teachers employed in the Public Schools for the half year ended, 30 June, 1916.

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Yumber of Days em	i't paid i ers from I Treasury
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ANNAPOLIS				Lambertson, Minnie	102	45	00
	-			Margeson, Hanna L.	102		00
Dill, George W.	102	105	00	Marshall, Ida M.	102		00
Ruggles, Lenfest		105		Mills, Hattie S.	44		40
Crowell, Deborah C. H.	102		00	Mussells, Dora R.	$\hat{93}$		õĩ
Thorne, Alice Evelyn	102		00	McBride, Bessie	53		$\tilde{37}$
Young, Marguerita E	102		00	McBride, Beulah	101		56
Young, Marguerite E.	102		00	McCullum, Alberta M	101		56
Balcom, Irene C. Banks, Rogist C.	102		00	MacMichael, Myrtle P.	102		00
Banks, Beriah S. Banks, Wilford E	102		00	Reagh, Fannie O	101		56
Banks, Wilford E. Buckler, Kathland P.	102		00	Roy, Maud E.	53		37
Buckler, Kathleen R. Bustin, H. I	102		00	Schaff, Margaret A Mills	102		00
Bustin, H. I	102		00	Singagon Liggio M	82		16
Chip				Simspson, Lizzie M.	101		56
Chipman, Emma W. Chute, Flossic H.	102		00	Spinney, Laura Blanche			
Chute By Mary L.	102		00	Spurr, Annie M. W.	102		00
Connell Coole II.	102		00	Spurr, Hortense V. B.	102		00
Cland Marguerite	102		00	Watson, Annie S.	$-99\frac{1}{2}$		
	104		00	Whitman, Minnie C.	101		56
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Jegna - Cora - Millella	102		00	Apt, Evelyn Belle	102		00
	44		88	Balcom, Hazel Eya	102		00
	102		00	Brown, Georgie M.	102		00
Tall 'Arazer C	102	60	00	Buddle, Frances L.	102		00
tiars: Since Mae	82	48	23	Burbridge, Hazel M.	102	30	
	102	60	00	Eisenhaur, Hilda P.	. 88	25	
Jacke July Oladys	101	5 9	41	Fairn, Henrietta	101	29	
	102	60	00	Fairn, Julietta P.	100	29	_
	102	60	00	Fox, Edith H.	97	28	53
	102	60	00	Gould, Muriel	102	30	00
	99	5 8	23	Harnish, Lloyd L. (Mrs.)	102	30	00
	102	60	00	Hunt, Gladys	20	5	88
Mills, Emily J. McCormic, A. E.	102	60	00	Jackson, Lena May	102	30	00
WICE TO A VIVE IN A	102	60	00	Jones, Estelle A.	102	30	00
McGill, Flora M. Niely, Pauline A	102	60	00	Lantz, Grace Muriel	102	80	00
	102	60		Morgan, Elizabeth E.	102	30	00
Neily, Flora M. Nichols, Allison C.	102		00	McCulloch, Alice Evelyn	102	30	
	102	60		McFadden, Pearl N.	102	30	
Parker, Mary M. Poole, Bessie M. Pott, Vera M	102	60		MacInnis, Emma	85	25	
Poole, Vera M. Potter, Mary E.	90	52		Ogilvie, Gertrude	102	30	
Potter Vera M.	102	60		Oickle, Sadie Pearl	102	30	
Potter, Vera M. Reagh, Mary E. Ritcey, Adelaide	102	60		Parker, Hettie E.	102	30	
Ritcen Mildred L.	102	60		Parker, Ewart Gladstone	102	30	
Ritcey, Adelaide Roney, Adelaide Russi, Annie Irano	102	60		Payson, Laura Mae	102	30	
Ruggie Annie Irene	102	60		Phinney, Annie M.	82	$\frac{30}{24}$	
	102	60		Reinhardt, Gladys M.	102	30	
lib. Theoday II	102	60			90	26	
Thurs Walton to	97	57		Sanford, Eva H.	102	30	
Tompkins, Grace	102	60		Sawler, Winifred	102	30	
"PKINS, Grace	102	60		Smith, Marguerite Irene	102	30	
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Wamboldt, Myrtle O.	86		30	Chisholm, Sarah C.	102	45 00
Ward, Helena W.	102		00	Chisholm, Florence	102	45 00
Whitman, Eva May	77		65	Dunn, Florence C.	102	43 66
Whitman, Laura Belle	102		00	Floyd, Alice	99	45 00
Wood, Ruby Alma	102	30	00	Homer, Catherine C.	102	44 56
				Mullins, Annie J.	101	43 66
Poor Sections	•			McAskill, Jessie M.	99	44 11
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Adams, Alice Ellen	46		35	Macdonald, Margaret M.	102	45 UV
Banks, Flora Leona	801			Macdonald, Cassie	102	14 11
Bent, Helen Lucy	92		$\frac{72}{2}$	Macdonald, William J.	100	45 00
Berry, Ella M.	77		07	Macdonald, Catherine	102	45 00
Buckler, Laura J.	71		81	Macdonald, Mary Ann	$\begin{array}{c} 102 \\ 99 \end{array}$	A3 60
Buckler, Nellie M.	102		50	Macdonald, Mary	102	45 00
Cooke, Hattie A.	102		50	Macdonald, Angus G.	102	45 00
Kelly, Laura	102		50	Macdonnell, John	102	45 OV
Mailman, Gladys V.	88 5 8		$\frac{23}{90}$	McDougall, Mary Agnes	102	45 UV
Marshall, Carrie O.	86		48	McEachern, Penelope	99	43 60
Mason, Helen	$\frac{30}{78}$		44	McIsaac, Jean McKenzie, Gertrude.	102	45 00
Miller, Birdie G. Mosher, Margaret Λ.	91		36	McKeaugh, Annie	102	45 00
Roach, Dorothy M.	102		50	McLean, Josephine	102	45 00
Rogers, Florence A.	73		57	McLellan, Mamie	$10\overline{2}$	45 00
Sanders, Jane Olivia	20		56	O'Connell, Bridget	102	45 00
Saunders, Ruth H.	68		68	Sister St. Hugh	97	42 78
Simpson, Mary E.	49		49	Sr. St. Mary Matilda	24	10 58
Slocomb, Vera Marie	102		50	Sister M. Pelagia	87	38 36
Swallow, Jessie Pearle	101		15	Sister St. Walburga	97	42 78
Wile, Lillian Hazel	69		05	Boyd, Mary Marcella	61	17 94
Wright, Dennis B.	102		50	Campbell, Mary	102	30 00
Upshaw, Beatrice V.	39		72	Cameron, Annie	102	30 00 25 89
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Annuitants				Cameron, Allan D.	69	26 77
Shaffner, S. C.		198	53	Chisholm, James W.	91	
Brown, A. D.		60	00	Crispo, Jóhn T.	89	ag no
McGill, Geo. B.		60	00	Dunlavy, Jennie	97	12 00
Munro, Henry		50	00	Hogan, Catherine H.	42	1 41
Richardson, Mrs. R. A.			00	Levandier, Helena J.	15	20 00
Vidito, Helen A.		60	00	Macdonald, Annie	102	an UV
Jones, Watson C.			00	Macdonald, Florence	102	വെവ
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Saunders, Arthur W.					102	06 10
Saunders, Arthur W.				Macdonald, Mary Ellen	89	26 16
Saunders, Arthur W. Assistant.				Macdonald, Mary Ellen Macdonald, Mary C.	89 93	26 16 27 36
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Saunders, Arthur W. Assistant. Neily, Mina M. 10			00	Macdonald, Mary Ellen Macdonald, Mary C. Macdonald, Mary E. Macdonald, Henrietta	89 93 102 87	26 36 27 00 25 59
Saunders, Arthur W. Assistant.			00	Macdonald, Mary Ellen Macdonald, Mary C. Macdonald, Mary E. Macdonald, Henrietta Macdonald, Mary C.	89 93 102 87 102	26 18 27 36 30 00 25 59 30 00 55
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Neily, Mina M. 10 ANTIGONISH Boyle, James	! . 83	20 73	23	Macdonald, Mary Ellen Macdonald, Mary C. Macdonald, Mary E. Macdonald, Henrietta Macdonald, Mary C. Macdonald, Sarah M. Macdonald, Angus A.	89 93 102 87 102 87 102	26 36 36 30 59 30 59 30 00 00
Assistant. Neily, Mina M. 10 ANTIGONISH Boyle, James Coady, Moses M.	83 83	20 73 85	23 44	Macdonald, Mary Ellen Macdonald, Mary C. Macdonald, Mary E. Macdonald, Henrietta Macdonald, Mary C. Macdonald, Sarah M. Macdonald, Angus A. Macdonald, Laura Belle	89 93 102 87 102 87 102 102	26 36 30 59 30 50 00 00 00 00 00 00 00 00 00 00 00 00
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Saunders, Arthur W. Assistant. Neily, Mina M. 10 ANTIGONISH Boyle, James Coady, Moses M. Sr. St. Thomas des Anges Doane, William Ricker, Annie L. Sister St. Margaret McAmis, Katie	83 83 97 102 97 60 102	73 85 85 75 57 44 60	23 44 59 00 06 11 00	Macdonald, Mary Ellen Macdonald, Mary C. Macdonald, Mary E. Macdonald, Henrietta Macdonald, Mary C. Macdonald, Sarah M. Macdonald, Angus A. Macdonald, Laura Belle Macdonald, Annie Belle Macdonald, Vernie Macdonald, Wary F. McDaniel, Mary J.	89 93 102 87 102 87 102 102 102 102	26 16 16 16 16 16 16 16 16 16 16 16 16 16
Saunders, Arthur W. Assistant. Neily, Mina M. 10 ANTIGONISH Boyle, James Coady, Moses M. Sr. St. Thomas des Anges Doane, William Ricker, Annie L. Sister St. Margaret McAmis, Katie Macdonald, Annie May	83 83 97 102 97 60 102 58	73 85 85 75 57 44 60 34	23 44 59 00 06 11 00 12	Macdonald, Mary Ellen Macdonald, Mary C. Macdonald, Mary E. Macdonald, Henrietta Macdonald, Mary C. Macdonald, Sarah M. Macdonald, Angus A. Macdonald, Laura Belle Macdonald, Annie Belle Macdonald, Annie Belle Macdonald, Wernie Macdonald, Mary F. McDaniel, Mary J. McGillivray, Teresa	89 93 102 87 102 87 102 102 102 102 102 102 102	26 16 26 36 26 59 20 59 20 59 20 00 20
Raunders, Arthur W. Assistant. Neily, Mina M. ANTIGONISH Boyle, James Coady, Moses M. Sr. St. Thomas des Anges Doane, William Ricker, Annie L. Sister St. Margaret McAmis, Katie Macdonald, Annie May Macdonald, Sadie	83 83 97 102 97 60 102 58 102	20 73 85 85 75 57 44 60 34 60	23 44 59 00 06 11 00 12	Macdonald, Mary Ellen Macdonald, Mary C. Macdonald, Mary E. Macdonald, Henrietta Macdonald, Mary C. Macdonald, Sarah M. Macdonald, Sarah M. Macdonald, Laura Belle Macdonald, Annie Belle Macdonald, Annie Belle Macdonald, Mary F. McDaniel, Mary F. McGillivray, Teresa McIsaac, Mary	89 93 102 87 102 87 102 102 102 102 102 102 102 20	26 16 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
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Saunders, Arthur W. Assistant. Neily, Mina M. 10 ANTIGONISH Boyle, James Coady, Moses M. Sr. St. Thomas des Anges Doane, William Ricker, Annie L. Sister St. Margaret McAmis, Katie Macdonald, Annie May Macdonald, Sadie McEachern, Stella McInnis, Annie	83 83 97 102 97 60 102 58 102 15	20 73 85 85 75 744 60 34 60 8 60	23 44 59 00 06 11 00 12 00 82 00	Macdonald, Mary Ellen Macdonald, Mary C. Macdonald, Mary E. Macdonald, Henrietta Macdonald, Mary C. Macdonald, Sarah M. Macdonald, Sarah M. Macdonald, Laura Belle Macdonald, Annie Belle Macdonald, Annie Belle Macdonald, Mary F. McDaniel, Mary F. McGillivray, Teresa McIsaac, Mary	89 93 102 87 102 87 102 102 102 102 102 102 102 20	26 16 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
Saunders, Arthur W. Assistant. Neily, Mina M. 10 ANTIGONISH Boyle, James Coady, Moses M. Sr. St. Thomas des Anges Doane, William Ricker, Annie L. Sister St. Margaret McAmis, Katie Macdonald, Annie May Macdonald, Sadie McEachern, Stella McInnis, Annie McLean, William	83 83 97 102 97 60 102 58 102 15 102	73 85 85 75 74 46 60 8 60 59	23 44 59 00 06 11 00 12 00 82 00 41	Macdonald, Mary Ellen Macdonald, Mary C. Macdonald, Mary C. Macdonald, Henrietta Macdonald, Mary C. Macdonald, Sarah M. Macdonald, Sarah M. Macdonald, Laura Belle Macdonald, Annia M. Macdonald, Annia Belle Macdonald, Annia Belle Macdonald, Mary F. McDaniel, Mary J. McGillivray, Teresa McIsaac, Mary Sister St. Mary Beatrice Watkins, Isabel	89 93 102 87 102 87 102 102 102 102 102 102 95 102 20 102	26 16 27 30 59 30 59 30 59 30 00 30 00 30 00 30 00 30 00 50 00 50 00 50 00 50 00 50 00 50 00 50 00 50 00
Raunders, Arthur W. Assistant. Neily, Mina M. ANTIGONISH Boyle, James Coady, Moses M. Sr. St. Thomas des Anges Doane, William Ricker, Annie L. Sister St. Margaret McAmis, Katie Macdonald, Annie May Macdonald, Sadie McEachern, Stella McInnis, Annie McLean, William Somers, Alexander M.	83 83 97 102 97 60 102 58 102 15 102 101 88	73 85 75 75 44 60 34 60 59 51	23 44 59 00 06 11 00 12 00 82 00 41 76	Macdonald, Mary Ellen Macdonald, Mary C. Macdonald, Mary E. Macdonald, Henrietta Macdonald, Mary C. Macdonald, Sarah M. Macdonald, Angus A. Macdonald, Laura Belle Macdonald, Anna M. Macdonald, Annie Belle Macdonald, Annie Belle Macdonald, Mary F. McDaniel, Mary F. McGillivray, Teresa McIsaac, Mary Sister St. Mary Beatrice	89 93 102 87 102 102 102 102 102 102 20 102	26 16 16 16 17 17 17 17 17 17 17 17 17 17 17 17 17
Raunders, Arthur W. Assistant. Neily, Mina M. ANTIGONISH Boyle, James Coady, Moses M. Sr. St. Thomas des Anges Doane, William Ricker, Annie L. Sister St. Margaret McAmis, Katie Macdonald, Annie May Macdonald, Sadie McEachern, Stella McInnis, Annie McLean, William Somers, Alexander M. Strople, Stella M.	83 83 97 102 97 60 102 58 102 15 102 101 88 102	73 85 85 75 444 600 34 600 59 51 60	23 44 59 00 06 11 00 12 00 82 00 41 76 00	Macdonald, Mary Ellen Macdonald, Mary C. Macdonald, Mary E. Macdonald, Henrietta Macdonald, Mary C. Macdonald, Sarah M. Macdonald, Angus A. Macdonald, Anna Belle Macdonald, Annie Belle Macdonald, Annie Belle Macdonald, Mary F. McDaniel, Mary F. McGillivray, Teresa McIsaac, Mary Sister St. Mary Beatrice Watkins, Isabel	89 93 102 87 102 102 102 102 102 102 102 102 102 102	267 360 59 30 59 30 000 30 000 30 000 30 000 30 30 30 30
Rounders, Arthur W. Assistant. Neily, Mina M. 10 ANTIGONISH Boyle, James Coady, Moses M. Sr. St. Thomas des Anges Doane, William Ricker, Annie L. Sister St. Margaret McAmis, Katie Macdonald, Annie May Macdonald, Sadie McEachern, Stella McInnis, Annie McLean, William Somers, Alexander M. Strople, Stella M. Sister M. Leonora	83 83 97 102 97 60 102 58 102 15 102 101 88 102	73 85 85 75 75 44 60 8 60 59 51 60 60	23 44 59 00 06 11 00 12 00 82 00 41 76 00 00	Macdonald, Mary Ellen Macdonald, Mary C. Macdonald, Mary E. Macdonald, Henrietta Macdonald, Henrietta Macdonald, Sarah M. Macdonald, Angus A. Macdonald, Laura Belle Macdonald, Annie Belle Macdonald, Annie Belle Macdonald, Mary F. McDaniel, Mary F. McGillivray, Teresa McIsaac, Mary Sister St. Mary Beatrice Watkins, Isabel Poor Sections Chisholm, Mary Cecelia	89 93 102 87 102 102 102 102 102 102 102 102 102 102	26 7 300 59 30 000 30 000 30 000 30 30 30 30 30 30
Raunders, Arthur W. Assistant. Neily, Mina M. ANTIGONISH Boyle, James Coady, Moses M. Sr. St. Thomas des Anges Doane, William Ricker, Annie L. Sister St. Margaret McAmis, Katie Macdonald, Annie May Macdonald, Sadie McEachern, Stella McInnis, Annie McLean, William Somers, Alexander M. Strople, Stella M. Sister M. Leonora Sister St. Mary Paula	83 83 97 102 97 60 102 58 102 15 102 101 88 102	73 85 85 75 744 60 34 60 59 51 60 60 57	23 44 59 00 06 11 00 12 00 82 00 41 76 00 06	Macdonald, Mary Ellen Macdonald, Mary C. Macdonald, Mary E. Macdonald, Henrietta Macdonald, Henrietta Macdonald, Sarah M. Macdonald, Sarah M. Macdonald, Angus A. Macdonald, Anna Belle Macdonald, Annie Belle Macdonald, Annie Belle Macdonald, Mary F. McDaniel, Mary J. McGillivray, Teresa McIsaac, Mary Sister St. Mary Beatrice Watkins, Isabel Poor Sections Chisholm, Mary Cecelia Grant, Isabel	89 93 102 87 102 102 102 102 102 102 102 102 20 102	26 7 30 59 59 30 59 30 00 30 00 30 00 30 30 30 30 30 30 30
Raunders, Arthur W. Assistant. Neily, Mina M. ANTIGONISH Boyle, James Coady, Moses M. Sr. St. Thomas des Anges Doane, William Ricker, Annie L. Sister St. Margaret McAmis, Katie Macdonald, Annie May Macdonald, Sadie McEachern, Stella McInnis, Annie McLean, William Somers, Alexander M. Strople, Stella M. Sister M. Leonora Sister St. Mary Paula Boyd, Effie Ann Chisholm. Teresa	83 83 97 102 97 60 102 58 102 15 102 101 88 102 102	20 73 85 85 75 44 60 34 60 60 59 51 60 60 57 44	23 44 59 00 06 11 00 12 00 82 00 41 76 00 00	Macdonald, Mary Ellen Macdonald, Mary C. Macdonald, Mary E. Macdonald, Henrietta Macdonald, Mary C. Macdonald, Sarah M. Macdonald, Angus A. Macdonald, Laura Belle Macdonald, Annie Belle Macdonald, Annie Belle Macdonald, Vernie Macdonald, Wary F. McDaniel, Mary F. McDaniel, Mary J. McGillivray, Teresa McIsaac, Mary Sister St. Mary Beatrice Watkins, Isabel Poor Sections Chisholm, Mary Cecelia Grant, Isabel Gillis, Isabel	89 93 102 87 102 102 102 102 102 102 102 20 102	26 7 30 59 59 30 59 30 00 30 00 30 00 30 30 30 30 30 30 30
Raunders, Arthur W. Assistant. Neily, Mina M. ANTIGONISH Boyle, James Coady, Moses M. Sr. St. Thomas des Anges Doane, William Ricker, Annie L. Sister St. Margaret McAmis, Katie Macdonald, Annie May Macdonald, Sadie McEachern, Stella McInnis, Annie McLean, William Somers, Alexander M. Strople, Stella M. Sister M. Leonora Sister St. Mary Paula	83 83 97 102 97 60 102 58 102 15 102 101 88 102 102 102	73 85 85 75 444 60 8 60 57 44 41	23 44 59 00 06 11 00 82 00 41 76 00 06 56	Macdonald, Mary Ellen Macdonald, Mary C. Macdonald, Mary E. Macdonald, Henrietta Macdonald, Henrietta Macdonald, Sarah M. Macdonald, Sarah M. Macdonald, Angus A. Macdonald, Anna Belle Macdonald, Annie Belle Macdonald, Annie Belle Macdonald, Mary F. McDaniel, Mary J. McGillivray, Teresa McIsaac, Mary Sister St. Mary Beatrice Watkins, Isabel Poor Sections Chisholm, Mary Cecelia Grant, Isabel	89 93 102 87 102 102 102 102 102 102 102 102 20 102	26 7 300 59 30 59 30 000 30 000 30 000 30 000 30 000 30 000 30 000 30 55 30 30 30 30 30 30 30 30 30 30 30 30 30

Macdonilla						
Macdonald, Mary	20		84	Anderson, Isabella M.	97	57 06
Macdonald, Catherine	45		64	Au Coin, Lucy	101	59 41
McDaniel, Margaret E. McGillivray, Mary M. McIsaac, Catherine	86		72	Bearse, Esther R.	102	$60 \ 00$
McIsaac Cother M.	102		00	Bissett, Clara V.	97	57 06
McIsaac Latherine M.	92		80	Bown, Eleanor F.	102	60 00
McLean Coal and	102		00	Bown, Violet E.	102	60 00
McLellan, Addean	102		00	Boyd, Christina	97	57 06
man, Andean	78	30	59	Brown, Elizabeth C.	102	60 00
Special Poor Sec				Bruce, Anna M.	101	59 41
				Bruce, Bessie W.	101	59 41
College Grant, John Wade	lan 00	05	00	Burke, Domatilla	101	59 41
e Grant, John Wadd	ien oo	40	88	Cameron, Janet F.	102	60 00
Se	·c.			Campbell, Flo. D.	97	57 06
Consolidated Sec	tions			Chichelm, William I	97	57 06
		•		Chisholm, William J.	97	57 06
Vest River D. McMaste	102	20	00	Crowdis, M. Eurella	$\begin{array}{c} 20 \\ 101 \end{array}$	11 76
West River, D. McMaste West River, D. McMaste	r 94		65	Crowell, Annie E. Crowell, Wilfred R.		59 41
West River, D. McMaste	r 94		65		97	57 06
, - ,		۵,	00	Davis, Kathreen	102	60 00
Assistants.				Dorsay, Sadie A. Doucett, Alma M.	$\frac{102}{101}$	$60\ 00 \\ 59\ 41$
				Edgecombe, Ethel L.	87	51 17
Macdonald, Angus L.	83	40	68	Egan, Anna M.	102	60 00
Macdonald, Angus L. Macdonald, Hugh John	83		27	Elderkin, A. Laura	14	8 23
				Ferguson, Lillian M.	102	60 00
Annuitants				Fife, Annie M.	100	58 82
Gillia				Fraser, Gertrude C.	101	59 41
Gillis, Angus Boyd, Angus A. Cameron, William D.		60	00	Fraser, Greta B.	102	60 00
Camer Ingus A.		45	00	Fulton, Elora A.	101	59 41
Chick I'm wunam D.		45	00	Gannon, Mary J.	97	57 06
Tapan vi Pan. Mi,		45	00	Gates, Lena M.	102	60 00
MCDF, ATTITUTE		45	00	Gillis, Mary D.	102	60 00
McPherson, John A. Martin, Helen		45	00	Goode, Myrtle M.	102	60 00
Helen		30	00	Greenwell, Bertha L.	$\tilde{102}$	60 00
				Gunn, Annie	102	60 00
Brown Market American Street				Hartigan, J. Helen	102	60 00
Cipmon				Harvey, Orpha	102	60 00
CAPE BRETO	N.			Hayford, Albert C.	101	59 41
Archibald, John T.	400			Holmes, Brenton M.	29	$17 \ 05$
Bingay, James Creelman William	102	90		Holmes, Laura V. 1.	97	57 06
	102			Howard, Clarence E.	101	59 41
Davidson, Milton D. Dodds, Agnes A	102			Ingraham, Grettie I.	102	60 00
Dodds, Agnes A. Ellis, Russel	102			Israel, Doris	102	60 00
Ellis, Russel Haverstool	102	90		Johnston, Joan	100	58 82
This TOCK IN Depose	$\begin{array}{c} 102 \\ 102 \end{array}$	90		Kay, Mary E.	102	60 00
Oulton, Charles A. Boyl, J. Logan	102			Knox, S. Edna	102	60 00
Boyl, J. Logan	101	90 89		Lantz, Helena M.	102	60 00
Boyle, Thomas O'R. Brehaut, Charlotte E. Ellis Noun, Elizabeth	102	75		Lawley, James H.	102	60 00
Colout, Charlotte F	88	64		LeVatte, Emily J. E.	102	$60\ 00$
Colquhoun, Elizabeth Fownes, Fil. M.	102	75		Macaulay, Katherine	97	57 06
Fownes, Ella M. Leve Agnes C	102	75		McDonald, Annie C.	94	55 30
Reefo Ella M.	102	75		McDonald, Margaret K.	102	60 00
LeVat. Agnes C.	102	75		Macdonald, Mary B.	102	60 00
Lindson, Myrtle H.	102	75	ሰሰ	MacDougall, Jean	102	60 00
Jownes, Ella M. LeVatte, Agnes C. Lindsay, Harriet L. McKay, Georgina M. McNainon, Christine	102	75	00	Macintosh, Anna B. McIntosh, Grace A.	$\begin{array}{c} 102 \\ 101 \end{array}$	60 00 50 41
McDay Georgina M	94	69		McIntyre, Mary E.		59 41 60 00
McNeil, Vincent McNutt, Orphe	102	75		MacKenzie, Josephine	$\begin{array}{c} 102 \\ 102 \end{array}$	60 00
McNutt Vincent	97	71		McKinnon, Christine		
McNutt, Orpha M. Phillips, Otto R. Sisters, Otto R.	102	$7\overline{5}$		MacKinnon, Jessie M.	$\begin{array}{c} 102 \\ 101 \end{array}$	60 00 59 41
Phillips, Otto B. Sister M. Camilla	95	69		McKinnon, Mary	102	60 00
VISIA PER				are visition, many		
Crack W Carrie		74	26	McLean Dolono	109	60 00
Sie M. Carrie	101	74 : 71 :	26 31	McLean, Dolena McLean, Edna	$\frac{102}{97}$	60 00 57 06
Sister M. Camilla		71 3	31	McLean, Edna	97	57 06
Sister M. Camilla Sister M. Vincent Stephens, Gladys Underwood, George R.	101 97	74 : 71 : 75 : 53 :	31 00	McLean, Dolena McLean, Edna MacLean, Eleanor C. McLean, S. Agnes		

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McLennan, A. Josephine	102	$60 \ 00$	Chisholm, Christine	101	44 56
MacLeod, Christine	101	$59 \ 41$	Chisholm, Marguerite	102	45 00 45 00
MacLeod, Roger S.	102	$60 \ 00$	Chisholm, Sadie	102	45 00
MacMillan, Katherine	102	$60 \ 00$	Collins, Sadie C.	102	45 00
Macneil, Jennie E.	102	$60 \ 00$	Costello, Georgina	102	45 00
MacNeil, Kate	73	42 94	Currie, Teresa	102	45 00
McNeil, Sarah Ann	95	55 88	Daley, Annie S.	102	43 66
Madower, Henrietta J.	102	60 00	Devoe, Pearl D.	99	45 00
Maguire, Gertrude J.	101	59 41	Dickie, Mabel B.	102	44 56
Matheson, Maude H.	94	55 30	Doyle, Agnes C.	101	44 56
Moore, Edith F.	102	60 00	Farquharson, Annie	101	45 OU
Moreshead, Mary A.	102	60 00	Foster, Lillian	$\begin{array}{c} 102 \\ 102 \end{array}$	45 00
Munn, Ella M.	97	57 06	Fyfe, Magdalen M.	59	$26^{\circ}0^{1}$
Munn, Nina A.	97	57 06	Fyfe, Nora	102	45 00
Nicholson, Mary	96	56 47	Gouthro, Alice	99	13 60
O'Keefe, Margaret M.	93	54 71	Gouthro, Lillian E.	102	45 OU
Quellette, Lena M. A.	101	59 41	Grant, Bertha A.	102	45 00
Patterson, Mary E.	102	$\begin{array}{c} 60 \ 00 \\ 54 \ 71 \end{array}$	Hamilton, Agnes E.	97	12 70
Peck, M. Emily	$\begin{array}{c} 93 \\ 101 \end{array}$	59 41	Holmes, Jessie K.	92	10 57
Ritcey, Edith A.	91	53 53	Kavanagh, Eva C.	97	12 78
Ritcey, Geraldine O. E.	102	60 00	Kerr, Annie F. Kyte, Angela E.	102	45 00
Ross, Annie M.	102	60 00	MacAulay, Ida H.	95	41 9U
Sampson, George F.	102	60 00	Macaulay, Nina J.	79	34 84
Schurman, Sadie	97	57 06	McCormick, Katherine	102	45 00
Sister Agnes Maria	81	47 64	MacDonald, Cassie	97	42 78
Sister M. Ambrosia	97	57 06	MacDonald, Daisy F.	102	45 00
Sister M. Andrea	97	57 06	Macdonald, Florence C.	101	44 56
Sister M. Annette	97	57 06	McDonald, Genevieve	97	42 78
Sister M. Chrysostom Sister M. Clarissa	102	60 00	MacDonald, Joanna	102	45 00 45 00
Sister M. Cleophas	97	57 06	McDonald, Loretta	102	32 19 32 19
Sister M. Isidore	97	57 06	McDonald, Mary	73	$\frac{32}{32} \frac{19}{19}$
Sister M. Josita	97	57 06	McDonald, Mary A.	73	42 78
Sister M. Margaret	102	$60 \ 00$	Macdonald, Nellie	97	× 0 ·
Sister M. Ursula	102	$60 \ 00$	MacDonald, Norman	19	45 ()0
Sister St. Bernard	102	$60 \ 00$	Macdonald, Sarah	102	10 10
Sister St. Jean	102	$60 \ 00$	McDonald, Sarah Belle	29	19 10
Sister St. John	102	60 00	Macdonald, Theresa	97	19 10
Sister St. Mary	102	$60 \ 00$	McDougail, Helen	97	40 70
Sister St. M. Michael	101	$59 \ 41$	McDougall, Mabel	97	10 10
Sister St. Osmond	101	59 41	McDougall, Mary	97	45 00
Sister Teresa Joseph	102	60 00	MacEwen, Mary C.	102	1/1 1/
Smythe, Philomena	97	57 06	McIsaac, M. Catherine	$\begin{array}{c} 32 \\ 102 \end{array}$	45 UV
Somers, Bernadette	97	57 06	McIsaac, Margaret	93	11 U.
Stalker, Elizabeth J.	102	60 00	MacIsaac, Margaret	102	45 110
Strachan, Katherine	78	45 88	MacIsaac, Margaret	97	10 10.
Strople, Gwladys	102	60 00	McKay, Ethel J.	100	11 112
Sullivan, Marie	102	60 00	McKay, Jean	102	45 170
Sutherland, Mary	94	55 30	MacKergan, Christine	$10\overline{2}$	45 00
Vickers, Matilda M.	102	60 00	MacKenzie, Jessie	70	30 87
Watson, Annie M.	102	60 00	MacKinnon, Alice B.	102	45 00
Weatherbe, Ava B.	101	59 41	MacKinnon, Jessie M.	101	44 56 42 34 42 78
Woodbury, Harold C.	$\begin{array}{c} 102 \\ 102 \end{array}$	$60\ 00$	MacKinnon, Katie McKinnon, Sayde E.	96	42 78
Woodill, Arthur W.	102	60 00	MacLean, Christine V.	97	44 56
Young, William H.	102	45 00	Madean Pachael I	101	45 00
Baxendale, Annie	102	45 00	Maclean, Rachael I.	102	01 02
Bird, A. Vera Boutilier, Alice	101	44 56	McLeod, Cecilia I. McLeod, Teresa	71	4£ 00
Boyle, Emma	102	45 00	MacNeil, Florence	102	
Boyle, Mary J.	29	$\frac{10}{12}$ $\frac{00}{79}$	MacNeill, Loretto	97	14 00
Broderick, Annie	101	44 56	MacNeil, Margaret S.	101	
Brown, Sara	102	45 00	MacNeil, Mary C.	97	45 110
Browner, Vivien	97	42 78	MacNeil, Stella M.	102	
Burke, H. Beatrice	54	23 81	Martin, Catherine C.	102	
Cameron, Christina	102	45 00	Moore, Elizabeth	102 102	45 00
Cash, Elizabeth J.	102	45 00	Morrison, Lottie M.	102	-
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Morrison, Margaret	102 45 00	Howie, Georgie I.	102	30 00
O'Connell, Mary A.	48 21 16		102	
Pettipas, Walter A. Phalen, Annie I	102 45 00	.,	102	
Phalen, Annie J. Phelan Bertha M	101 44 56	Johnstone, Annie	96	
Phelan, Bertha M.	102 45 00	Keats, Mary R.	101	
Power, Winifred L. Read, Pearl R	102 45 00		102	
Read, Pearl B.	37 16 31	Ling, Ethel G.	40	
Robinson, Hattie L.	72 - 31 - 75	MacAulay, Christie	102	30 00
Simpson, Margaret J.	102 45 00	Macaulay, Josephine	- 197	
Sister M. Ambrose Sister M. Camillar	102 45 00	McCormick, Mary	102	30 00
Sister M. Camillus Sister M. Diagram	97 42 78	 MacCuish, Catherine G. 		30 00
Sister M. Camillus Sister M. Dionysia	102 45 00	Macdonald, Alice H.	20	5 88
Sister M. Eulalia	102 45 00	MacDonald, Christina	$1\overline{02}$	30 00
Sister M. Eulalia Sister M. Lucina	102 45 00	Macdonald, Mary	97	28 53
Sister No Oswaid	$102 ext{ } 45 ext{ } 00$	McDonald, Mary A.	102	30 08
Sister M. Oswald Sister M. Stephen	97 42 78	Macdonald, Mary J.	102	30 00
Sister M. Stephen Sister M. Thomas	97 42 78	MacDonald, Teresa B.		29 86
Olston X . A CLOHICT	97 42 78	MacGillivray, Margaret		30 00
Sister M. Wilfrid Sister St. Aldric Sister St. Aldric	5 2 20	MacInnis, Annie	102	30 00
Sister St. Aldric	102 45 00	MacInnis, Margaret	97	28 53
Sister Contexander	102 45 00	McIntosh, Mary E.	88	25 89
VISTA OF THE USUAL	102 45 00	McIntyre, John	95	27 94
olstor o'' Casiida	102 45 00	McKenzie, William D.	40	11 76
Signal of Frances	100 45 00	McKenzie, William D.	88	$\frac{25}{25}$ 89
distant a reflecting	102 45 00			29 41
Matan C. Juille C.	102 45 00	McKinnon, Annie F. McKinnon, Elizabeth A. MacKinnon, Etta	91	$\frac{5}{26}$ $\frac{1}{77}$
Sista. A Marcella	101 44 56	MacKinnon, Etta	$1\tilde{0}\tilde{2}$	30 00
vista	101 44 56	McLean, Mary J.	101	29 71
olsta, Z. W. Agatha	102 45 00	MacLean, Myrtle L.	101	$\frac{1}{29}$ $\frac{1}{71}$
	$\begin{array}{cccc} 102 & 45 & 00 \\ 102 & 45 & 00 \\ 102 & 45 & 00 \end{array}$	McLellan, Freda	101	$\frac{1}{29}$ $\frac{1}{71}$
	$102 ext{ } 45 ext{ } 00$	McLellan, Mary	97	$\frac{1}{28}$ $\frac{1}{53}$
	102 45 00 102 45 00 102 45 00 102 45 00	McLellan, Mary A.	101	$\frac{29}{29}$ 71
	$102 ext{ } 45 ext{ } 00$	McMullin, Elizabeth A.	$\tilde{102}$	30 00
	102 45 00	McNaughton, Margaret	97	$\frac{38}{28} \frac{53}{53}$
	102 45 00	McNeil, Katie J.	101	$\frac{29}{71}$
YDAn 7 * YOLU FI.	$97 ext{ } 42 ext{ } 78$	McNeil, Mary		$\frac{29}{29}$ $\frac{12}{12}$
	102 45 00	MacRae, Mary I.	102	30 00
Trask, Maude A. Wentzell, Lois F.	102 45 00	Mann, G. Fred	102	30 00
	97 42 78	Matheson, Florence M.	893	26 33
Wentzell, Lois E. Armstrong, Edith	95 41 90	Meagher, Stella	101	29 71
hrmstron, Edith	97 2853	Moffatt, Bessie G.	74	21 76
	102 30 00	Morrison, John F.	88	25 89
Beaver, Lena M. Bureller, Lily	102 50 00	Morrison, Perle T.	100	29 41
outiliar Lena M.	101 29 71	Mullins, Katherine A.		28 09
Burchell, Alice E. Canal Rose, Rose T	$95\frac{1}{2}$ 28 09	Munroe, Teresa M.	81	23 82
	$97^{\circ} 28 53$	Nicholson, Katie	91	26 77
amphall T.	82 24 12	Nickerson, Margaret	$9\overline{7}$	28 56
	102 30 00	O'Handley, Joan	102	30 00
Campbell, Jessie Carlin, M. Margaret Carmin, M. Margaret	91 26 77	Orr, Isabel M.	102 90 94	26 47
Carlin Margaret	102 30 00	Pembroke, Maggie	94	27 65
Carlin, M. Margaret Carmichael, Jessie Coady, Margaret Costoli Margaret	43 12 64	Power, Elizabeth M.	102	30 00
Coady, Margaret A. Costello, C. Gertrude	100 29 41	Ratchford, James M.	94	27 65
ostello, C. Gertrude Curie, Marjorie A.	19 5 59	Reid, Annie E.	102	30 00
rowdis, Marjorie A. Urrie, Mamie	95 27 94	Roach, Mary	96	28 24
Surrie, Marjorie A.	29 8 52	Robson, Matilda E.	83	24 41
Currie, Marjorie A. Currie, Mamie Currie, Mamy L. Cugland, Emma	101 2971	Sampson, Clara M.	97	28 5 3
Carand E. A.	87 25 59	Scott, Christine	ıŏi	29 71
erguson Emma	102 30 00	Sister F. Paula	96	28 24
erguson, Fred	91 26 77	Sister M. Aloyse	97	28 53
erguson, Emma orbes, Florence raser, Josephine	$102 \overline{30} 00$	Sister M. Jeromina	102	30 00
raser, Josephine illis, Mary E.	102 30 00	Sister M. Seresina	102	30 00
Sills, Mary E.	4 1 17	Sister St. Ann		21 17
illis, Mary E. illis, Mary Josephine ough, Eaphina	102 30 00	Sister St. Gregory		30 00
illis, Mary Josephine ough, Seraphina Fant, Edna F	93 27 36	Sister St. Mary		30 00
Sough, Seraphina Sough, Edna F. Thelma R.	78 22 94	Smith, Katherine M.		28 53
- netma R.	37 10 88	Smith, Mary A.		28 53

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Somers, Elizabeth C.	100 29	41	Baltzer, Adelaide	$\begin{array}{cccc} 102 & 60 & 00 \\ 102 & 60 & 00 \end{array}$) 1
Spencer, Greta M.	99 29		Bishop, Margaret		١
Sullivan, Kathryn	102 30		Daniels, Agusta		
Frask, Marion S.	56 16		Morgan, Sarah	47 27 70	,
Verner, Annie A.	$97 \tilde{2}8$		Phillips, Janet R.	101 1 59 70	1
, ettlet, Annie A.	0. 20		Bambrick, Lena		
Poor Sec	tions.		Bishop, Josephine	$\begin{array}{cccccccccccccccccccccccccccccccccccc$,
	o= 0.4	5.0	Blackmore, Evelyn	100 60 00	,
Bagnell, Percy O.	95 34		Custance, Sarah B.	100 60 00	;
Bagnell, Viola M.	67 24		Cox, Amelia J.	700 GO U	,
Bell, Hannah P.	97 35 80 29 80 29	59	Chivers, Gladys P.	700 60 U	,
Campbell, Irenc J	80 29	35	Creelman, Laura	รีก็อี ผูก ปีเ	,
Fraser, Mabel	00 40	00	Cunningham, Laura	57 57 00	,
Gillis, Margaret E.	102 37		Dickson, Hattie D.	c. 27 b4	:
Gillis, Mary C.	91 55		Fulton, Beatrice	100 60 0	,
Gillis, Mary J.	71 26		Fulton, Olive J.	105 GO U	,
Cillie Minnie	100 36		Goodwin, Alberta	100 60 U	,
Hull, Frances	65 23		Hines, Jennie A.	שו מם בה	,
Kehoe, Clara	82 30		Lake, E. Pauline	15 80	,
Kehoe, Eliza E.	65 23 82 30 9 3 101 37 66 24		Lockhart, Bessie B.	ລຸລິດ ແລະ ປັ	,
Macdonald, Eva	101 37	06	Lodge, Myrta C.	760 60 00	,
		29	Mingo, Irene E.	6.4	l
McDougall, Catheric MacGillivray, Jessie	ne B. 96 35	23	Moore, Ralph		,
MacGillivray, Jessie	34 12	44	McCurdy, A. Evelyn	1 2 CO (N	,
McInnis, Christine	$91\frac{1}{2}$ 33	58	McDonald, Jean C.	102 48 20	,
McKenzie, Christen	a 64 23	56	McKenzie, Sylla	20 00	,
McKenzie, Mary	100 36	69	McKay, Eva	**= AN DU	,
MacKinnon, Ethel 1	 23 8 87 31 	43	McLaughlin, Erma K.	**** /1 L	,
McNeill, Mabel E.	87 31	92	McLean, Margaret	11 1	,
Matheson, Flora C.	93 34 20 7 84 30	13	McLennan, Florence	-: cn w	,
Miller, Mary E.	20 - 7	33	McLeod, Elsie	10 = c0 00	,
Nearing, Theresa	84 30	81	McWilliams, Janie	**= 60 0	,
Nicholson, Jessie A.	70 25	67	Nelson, Ermina	*** ca u	,
Nicholson, Mary E.	97 35	59	Ogilvie, Phoebe	*** ca u	,
Penny, Beatrice I.	94 34	49	Rafuse, Neta	cn 0	,
<i>3</i> ,			Simpson, Elsie	10- ca in	,
Consolidate	d Sections.		Smith, Alice C.	100 4	
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	021 00	00	Strople, Janie I.	*** 11 (*	j
The Meadows	951 28		Tupper, Francis	20 11 00	
The Meadows Ocean View	91 26	77	Tupper, Francis Turner, Flora	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Ď
The Meadows Ocean View East Bay	$ \begin{array}{ccc} 91 & 26 \\ 102 & 90 \end{array} $	$\begin{array}{c} 77 \\ 00 \end{array}$	Tupper, Francis Turner, Flora Vance, Flora	20 11 00 102 60 00 94 55 00 102 60 00)))
The Meadows Ocean View	$ \begin{array}{ccc} 91 & 26 \\ 102 & 90 \end{array} $	77	Tupper, Francis Turner, Flora Vance, Flora Waddell, Dorothy	$\begin{array}{cccccccccccccccccccccccccccccccccccc$))))
The Meadows Ocean View East Bay Eskasoni	91 26 102 90 102 46	$\begin{array}{c} 77 \\ 00 \end{array}$	Tupper, Francis Turner, Flora Vance, Flora Waddell, Dorothy Whitman, Carrie	20 11 0 102 60 0 94 55 0 102 60 0 102 60 0 102 48 2 82 48 2	0 0 0 3 7
The Meadows Ocean View East Bay Eskasoni	$ \begin{array}{ccc} 91 & 26 \\ 102 & 90 \end{array} $	$\begin{array}{c} 77 \\ 00 \end{array}$	Tupper, Francis Turner, Flora Vance, Flora Waddell, Dorothy Whitman, Carrie Wright, Jessie	20 11 00 102 60 00 94 55 30 102 60 00 102 60 00 102 48 20 82 48 20 92 40 10	0 0 0 3 7
The Meadows Ocean View East Bay Eskasoni Annui	91 26 102 90 102 46 tants.	77 00 56	Tupper, Francis Turner, Flora Vance, Flora Waddell, Dorothy Whitman, Carrie Wright, Jessie Archibald, E. Elsie	20 11 0 102 60 0 94 55 0 102 60 0 102 60 0 102 82 48 2 82 40 5 92 36 01	0 0 0 3 7 6
The Meadows Ocean View East Bay Eskasoni Annui Gillis, Ronald	91 26 102 90 102 46 tants.	77 00 56	Tupper, Francis Turner, Flora Vance, Flora Waddell, Dorothy Whitman, Carrie Wright, Jessie Archibald, E. Elsie Archibald, Alice	20 11 0 102 60 0 94 55 0 102 60 0 102 48 2 82 40 5 92 36 0 102 45 0	0 0 0 3 7 6 0
The Meadows Ocean View East Bay Eskasoni Annui Gillis, Ronald McDonald, Joseph	91 26 102 90 102 46 tants.	77 00 56 00 00	Tupper, Francis Turner, Flora Vance, Flora Waddell, Dorothy Whitman, Carrie Wright, Jessie Archibald, E. Elsie Archibald, Alice Brennan, Maude	20 11 0 102 60 30 94 60 0 102 60 0 102 60 0 82 48 2 92 46 1 82 45 0 102 45 0 102 45 0	0 0 0 3 7 6 0
The Meadows Ocean View East Bay Eskasoni Annui Gillis, Ronald McDonald, Joseph Currie, Donald J.	91 26 102 90 102 46 tants.	77 00 56 00 00 00	Tupper, Francis Turner, Flora Vance, Flora Waddell, Dorothy Whitman, Carrie Wright, Jessie Archibald, E. Elsie Archibald, Alice Brennan, Maude Clarke, Janet G.	20 11 0 102 60 30 94 55 0 102 60 0 102 60 0 82 48 2 92 36 0 102 45 0 102 45 0 102 45 0 102 45 0	0 0 0 3 7 6 0 0
The Meadows Ocean View East Bay Eskasoni Annui Gillis, Ronald McDonald, Joseph Currie, Donald J. Currie, Michael D.	91 26 102 90 102 46 tants.	77 00 56 00 00 00 00	Tupper, Francis Turner, Flora Vance, Flora Waddell, Dorothy Whitman, Carrie Wright, Jessie Archibald, E. Elsie Archibald, Alice Brennan, Maude Clarke, Janet G. Cox, Sarah E.	20 11 0 102 60 30 94 65 00 102 60 00 102 48 2 82 48 5 92 40 5 82 45 0 102 45 0 102 45 0 102 45 0 102 45 0	0 0 0 3 7 6 6 0 0 0
The Meadows Ocean View East Bay Eskasoni Annui Gillis, Ronald McDonald, Joseph Currie, Donald J. Currie, Michael D. Garrett, Charles V.	91 26 102 90 102 46 tants. 60 60 45 45	77 00 56 00 00 00 00 00	Tupper, Francis Turner, Flora Vance, Flora Waddell, Dorothy Whitman, Carrie Wright, Jessie Archibald, E. Elsie Archibald, Alice Brennan, Maude Clarke, Janet G. Cox, Sarah E. Cox, Jean R.	20 11 0 102 60 3 94 65 0 102 60 0 102 60 0 102 48 2 82 48 5 82 45 0 102 45 0 102 45 0 102 45 0 102 45 0	0 0 0 0 3 7 6 6 0 0 0
The Meadows Ocean View East Bay Eskasoni Annui Gillis, Ronald McDonald, Joseph Currie, Donald J. Currie, Michael D. Garrett, Charles V. McDougall, Daniel	91 26 102 90 102 46 tants. 60 60 45 45 45 J. 45	77 00 56 00 00 00 00 00 00	Tupper, Francis Turner, Flora Vance, Flora Waddell, Dorothy Whitman, Carrie Wright, Jessie Archibald, E. Elsie Archibald, Alice Brennan, Maude Clarke, Janet G. Cox, Sarah E. Cox, Jean R. Crowe, Martha D.	20 11 0 102 60 30 94 60 0 102 60 0 102 82 48 5 92 46 10 82 45 0 102 45 0 102 45 0 102 45 0 104 45 0 100 4 46 0 100 4 40	0 0 0 0 0 0 0 0 0 0 0 0
The Meadows Ocean View East Bay Eskasoni Annui Gillis, Ronald McDonald, Joseph Currie, Donald J. Currie, Michael D. Garrett, Charles V. McDougall, Daniel McDougall, Philip	91 26 102 90 102 46 tants. 60 60 45 45 J. 45	77 00 56 00 00 00 00 00 00 00	Tupper, Francis Turner, Flora Vance, Flora Waddell, Dorothy Whitman, Carrie Wright, Jessie Archibald, E. Elsie Archibald, Alice Brennan, Maude Clarke, Janet G. Cox, Sarah E. Cox, Jean R. Crowe, Martha D. Creichton, Iessie M.	20 11 0 102 60 30 94 60 0 102 60 0 102 48 2 82 48 2 82 36 1 102 45 0 102 45 0 102 4 5 0	0 0 0 0 0 0 0 0 0 0 0 0
The Meadows Ocean View East Bay Eskasoni Annui Gillis, Ronald McDonald, Joseph Currie, Donald J. Currie, Michael D. Garrett, Charles V. McDougall, Daniel McDougall, Philip	91 26 102 90 102 46 tants. 60 60 45 45 J. 45	77 00 56 00 00 00 00 00 00	Tupper, Francis Turner, Flora Vance, Flora Waddell, Dorothy Whitman, Carrie Wright, Jessie Archibald, E. Elsie Archibald, Alice Brennan, Maude Clarke, Janet G. Cox, Sarah E. Cox, Jean R. Crowe, Martha D. Creighton, Jessie M. Cruikshanks, M.	20 11 0 102 60 30 94 65 00 102 60 00 102 48 2 92 46 10 82 45 00 102 45 00 102 4 46 00 102 4 4 0 10 4 6 0 102 4 5 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
The Meadows Ocean View East Bay Eskasoni Annui Gillis, Ronald McDonald, Joseph Currie, Donald J. Currie, Michael D. Garrett, Charles V. McDougall, Daniel McDougall, Philip	91 26 102 90 102 46 tants. 60 60 45 45 J. 45	77 00 56 00 00 00 00 00 00 00	Tupper, Francis Turner, Flora Vance, Flora Waddell, Dorothy Whitman, Carrie Wright, Jessie Archibald, E. Elsie Archibald, Alice Brennan, Maude Clarke, Janet G. Cox, Sarah E. Cox, Jean R. Crowe, Martha D. Creighton, Jessie M. Cruikshanks, M. Doane, Fanny	20 11 0 102 60 30 94 65 0 102 60 0 102 48 5 92 36 0 82 45 0 102 45 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
The Meadows Ocean View East Bay Eskasoni Annui Gillis, Ronald McDonald, Joseph Currie, Donald J. Currie, Michael D. Garrett, Charles V. McDougall, Daniel	91 26 102 90 102 46 tants. 60 60 45 45 J. 45	77 00 56 00 00 00 00 00 00	Tupper, Francis Turner, Flora Vance, Flora Waddell, Dorothy Whitman, Carrie Wright, Jessie Archibald, E. Elsie Archibald, Alice Brennan, Maude Clarke, Janet G. Cox, Sarah E. Cox, Jean R. Crowe, Martha D. Creighton, Jessie M. Cruikshanks, M. Doane, Fanny Fraser, Bertha	20 11 0 102 60 30 94 50 00 102 60 00 102 48 50 82 45 00 102 99 44 50	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
The Meadows Ocean View East Bay Eskasoni Annui Gillis, Ronald McDonald, Joseph Currie, Donald J. Currie, Michael D. Garrett, Charles V. McDougall, Philip McKenzie, Archibal	91 26 102 90 102 46 tants. 60 60 45 45 45 45 J. 45 d J. 45	77 00 56 00 00 00 00 00 00	Tupper, Francis Turner, Flora Vance, Flora Waddell, Dorothy Whitman, Carrie Wright, Jessie Archibald, E. Elsie Archibald, Alice Brennan, Maude Clarke, Janet G. Cox, Sarah E. Cox, Jean R. Crowe, Martha D. Creighton, Jessie M. Cruikshanks, M. Doane, Fanny Fraser, Bertha Fulmore, Della	100 11 00 100 100 100 100 100 100 100 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
The Meadows Ocean View East Bay Eskasoni Annui Gillis, Ronald McDonald, Joseph Currie, Donald J. Currie, Michael D. Garrett, Charles V. McDougall, Daniel McDougall, Philip	91 26 102 90 102 46 tants. 60 60 45 45 45 45 J. 45 d J. 45	77 00 56 00 00 00 00 00 00	Tupper, Francis Turner, Flora Vance, Flora Waddell, Dorothy Whitman, Carrie Wright, Jessie Archibald, E. Elsie Archibald, Alice Brennan, Maude Clarke, Janet G. Cox, Sarah E. Cox, Jean R. Crowe, Martha D. Creighton, Jessie M. Cruikshanks, M. Doane, Fanny Fraser, Bertha Fulmore, Della Graham, Laura L.	20 11 0 102 60 30 94 65 00 102 60 00 102 48 50 82 45 00 102 45 00 103 44 00 104 45 00 105 105 105 105 105 105 105 105 105 105	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
The Meadows Ocean View East Bay Eskasoni Annui Gillis, Ronald McDonald, Joseph Currie, Donald J. Currie, Michael D. Garrett, Charles V. McDougall, Daniel McDougall, Philip McKenzie, Archibal	91 26 102 90 102 46 tants. 60 60 45 45 45 J. 45 d J. 45	77 00 56 00 00 00 00 00 00 00 00 00	Tupper, Francis Turner, Flora Vance, Flora Waddell, Dorothy Whitman, Carrie Wright, Jessie Archibald, E. Elsie Archibald, Alice Brennan, Maude Clarke, Janet G. Cox, Sarah E. Cox, Jean R. Crowe, Martha D. Creighton, Jessie M. Cruikshanks, M. Doane, Fanny Fraser, Bertha Fulmore, Della Graham, Laura L. Johnson, Hattie R.	102 100 100 100 100 100 100 100 100 100	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
The Meadows Ocean View East Bay Eskasoni Annui Gillis, Ronald McDonald, Joseph Currie, Donald J. Currie, Michael D. Garrett, Charles V. McDougall, Daniel McDougall, Philip McKenzie, Archibal COLCHEST Davis, D. G.	91 26 102 90 102 46 tants. 60 60 45 45 J. 45 d J. 45 er south	77 00 56 00 00 00 00 00 00 00 00 00 00	Tupper, Francis Turner, Flora Vance, Flora Waddell, Dorothy Whitman, Carrie Wright, Jessie Archibald, E. Elsie Archibald, Alice Brennan, Maude Clarke, Janet G. Cox, Sarah E. Cox, Jean R. Crowe, Martha D. Creighton, Jessie M. Cruikshanks, M. Doane, Fanny Fraser, Bertha Fulmore, Della Graham, Laura L. Johnson, Hattie R. Langille, Cora E.	102 100 100 100 100 100 100 100 100 100	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
The Meadows Ocean View East Bay Eskasoni Annui Gillis, Ronald McDonald, Joseph Currie, Donald J. Currie, Michael D. Garrett, Charles V. McDougall, Daniel McDougall, Philip McKenzie, Archibal COLCHEST Davis, D. G. Murray, Annie L.	91 26 102 90 102 46 tants. 60 60 45 45 45 45 45 45 45 45 45 45 45 45 47 48 49 49 40 41 41 42 45 45 45 45 45 45 45 45 45 45 45 45 45	77 00 56 00 00 00 00 00 00 00 00 00 00 00 00 00	Tupper, Francis Turner, Flora Vance, Flora Waddell, Dorothy Whitman, Carrie Wright, Jessie Archibald, E. Elsie Archibald, Alice Brennan, Maude Clarke, Janet G. Cox, Sarah E. Cox, Jean R. Crowe, Martha D. Creighton, Jessie M. Cruikshanks, M. Doane, Fanny Fraser, Bertha Fulmore, Della Graham, Laura L. Johnson, Hattie R. Langille, Cora E. Langille, Ada C.	102 100 100 100 100 100 100 100 100 100	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
The Meadows Ocean View East Bay Eskasoni Annui Gillis, Ronald McDonald, Joseph Currie, Donald J. Currie, Michael D. Garrett, Charles V. McDougall, Philip McKenzie, Archibal COLCHEST Davis, D. G. Murray, Annie L. Richardson, L. A.	91 26 102 90 102 46 tants. 60 60 45 45 45 45 45 45 45 45 45 45 45 47 86 75	77 00 56 00 00 00 00 00 00 00 00 00 00 00 00 00	Tupper, Francis Turner, Flora Vance, Flora Vance, Flora Waddell, Dorothy Whitman, Carrie Wright, Jessie Archibald, E. Elsie Archibald, Alice Brennan, Maude Clarke, Janet G. Cox, Sarah E. Cox, Jean R. Crowe, Martha D. Creighton, Jessie M. Cruikshanks, M. Doane, Fanny Fraser, Bertha Fulmore, Della Graham, Laura L. Johnson, Hattie R. Langille, Cora E. Langille, Ada C. Leck. Leah M.	102 100 100 100 100 100 100 100 100 100	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
The Meadows Ocean View East Bay Eskasoni Annui Gillis, Ronald McDonald, Joseph Currie, Donald J. Currie, Michael D. Garrett, Charles V. McDougall, Philip McKenzie, Archibal COLCHEST Davis, D. G. Murray, Annie L. Richardson, L. A. Rudolf, Mary A.	91 26 102 90 102 46 tants. 60 60 45 45 45 45 45 45 45 45 45 45 45 47 86 75 86 75 97 85	77 00 56 00 00 00 00 00 00 00 00 00 00 00 00 00	Tupper, Francis Turner, Flora Vance, Flora Waddell, Dorothy Whitman, Carrie Wright, Jessie Archibald, E. Elsie Archibald, Alice Brennan, Maude Clarke, Janet G. Cox, Sarah E. Cox, Jean R. Crowe, Martha D. Creighton, Jessie M. Cruikshanks, M. Doane, Fanny Fraser, Bertha Fulmore, Della Graham, Laura L. Johnson, Hattie R. Langille, Cora E. Langille, Ada C. Leck, Leah M. Logan, Stella M.	102 100 100 100 100 100 100 100 100 100	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
The Meadows Ocean View East Bay Eskasoni Annui Gillis, Ronald McDonald, Joseph Currie, Donald J. Currie, Michael D. Garrett, Charles V. McDougall, Daniel McDougall, Philip McKenzie, Archibal COLCHEST Davis, D. G. Murray, Annie L. Richardson, L. A. Rudolf, Mary A. Cameron, Guy	91 26 102 90 102 46 tants. 60 60 45 45 45 J. 45 d J. 45 d J. 45 er SOUTH 102 105 97 85 86 75 97 85 97 85	77 00 56 00 00 00 00 00 00 00 00 00 00 00 00 00	Tupper, Francis Turner, Flora Vance, Flora Waddell, Dorothy Whitman, Carrie Wright, Jessie Archibald, E. Elsie Archibald, Alice Brennan, Maude Clarke, Janet G. Cox, Sarah E. Cox, Jean R. Crowe, Martha D. Creighton, Jessie M. Cruikshanks, M. Doane, Fanny Fraser, Bertha Fulmore, Della Graham, Laura L. Johnson, Hattie R. Langille, Cora E. Langille, Ada C. Leck, Leah M. Logan, Stella M. Logan, Stella M.	100 100 30 100 100 100 100 100 100 100 1	000037600001110000066006100766000
The Meadows Ocean View East Bay Eskasoni Annui Gillis, Ronald McDonald, Joseph Currie, Donald J. Currie, Michael D. Garrett, Charles V. McDougall, Philip McKenzie, Archibal COLCHEST Davis, D. G. Murray, Annie L. Richardson, L. A. Rudolf, Mary A.	91 26 102 90 102 46 tants. 60 60 45 45 45 45 J. 45 d J. 45 ER SOUTH 102 105 97 85 97 86 97 86 95 69 97 71	77 00 56 00 00 00 00 00 00 00 00 00 00 00 00 00	Tupper, Francis Turner, Flora Vance, Flora Waddell, Dorothy Whitman, Carrie Wright, Jessie Archibald, E. Elsie Archibald, Alice Brennan, Maude Clarke, Janet G. Cox, Sarah E. Cox, Jean R. Crowe, Martha D. Creighton, Jessie M. Cruikshanks, M. Doane, Fanny Fraser, Bertha Fulmore, Della Graham, Laura L. Johnson, Hattie R. Langille, Cora E. Langille, Ada C. Leck, Leah M. Logan, Stella M.	10 1 0 0 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1	0000376000011100000666066100766000

Rutherford							
Rutherford, Elva C. Turner, Josephine Treen, Luly P	16		05	Poor Section	8.		
Treen I Josephine	102		00	TM 1111 (3)		20	
Bradley C.	78		40	Phillips, Grace	86		
Christie, Stella S. Creighton Majoria C	99		12	Purdy, Janie M.	101		
Creighton Ma S.	18		29	Sutherland, Lillian	92		
Creelman, Majorie C.	83		41	Weatherby, Hattie E.	102	40	00
Dickie	97		53				
Fisher W	102		00	And the second s			
Fullerton, Janet M.	102		00	COLCHESTER W	/CCT		
Gray, Annie E.	99		12	COLCHESTER W	ESI.		
Hill Bell T.	102		00	Caldall Ottilla	101	74	o.e
	82		12	Caddell, Ottillie	102	74 : 60 :	
Johnson, Laura M. Johnson, Florence, N.	81		82	Bryson, Sadie J.	102	60	
Johnson, Florence N. McEwin, Edith Man	$\begin{array}{c} 102 \\ 101 \end{array}$	06	00	Calder, Marie E.	99	58	
McEwin, Edith May McNutt, Gladys E	1017	90	00	Campbell, Margaret	102	60	
McNutt, Gladys E.	102 102			Fulton, Lillian	100	58	
Phillips, Atarah Selig, Geneviews	102		00	Morehouse, Walter B.	102	60	
Selig. Genevis	100	0.0		Morse, Edna C.	102	60	
Stevens, Minerva Vance, Ruby A	102 85 42	90	00	McCully, Iola E.	102		
Vance, Ruby A. Wright, Borth	40	40	00	McCallum, Elizabeth		60 (
Wright, Bertha			35	Smith, Mary B.	102	60	
bertha	84	24	12	Weldon, Georgie Bryson, Seldon C.	102	45	
Poor Section				Carter, Hattie M.	$\begin{array}{c} 102 \\ 102 \end{array}$	45 (
p 1 001 Section	18.				102	45	
Bayer, Olivia McRea, Rootsi	100	39	91	Crowe, Adelaide G.	102	45	
McRea, Beatrice C.				Fullerton, Irene	102	45 (
bensmore I Olive	102		00	Miller, Agnes M.	102	45 (
Densmore, L. Olive Hayman, Mary J.	96		64	Miller, Mary A.	102	45 (
	15	ð	88	Morrison, Ida M.	97	42	
Clude Tellill	100	40	ΛΛ	McDonald, Elizabeth			
Cobley, Married	$\begin{array}{c} 102 \\ 102 \end{array}$	40		O'Connell, Marjorie	102	45 (
	102	40		Roberts, Susie	102	45 (
Goodwin, Minnie G. Dunlop, Jean	102 100	40		Smith, Ada E.	102	45 (
r) Jean	100	39	21	Bulmer, Marjorie	102	30 (
				Cail, Debora B.	87	25 8	
				Clarke, Edith	102	30 (
				Corbett, Minnie	102	30 (30 (
				Cottam, Hazel	102	30 (
COLCHESTER NO	DTU			Crittenden, Edith A.	$\begin{array}{c} 102 \\ 102 \end{array}$	30 (
Fro.)K I I I .			Edward, Elsie A.	102	30 0	
Freeman, Annie Heighton, Anna B	102.	60	nn	Fishe, Georgina	881		
Heighton, Annie Sillers, Violet A	102	60		Forbes, Margaret	102	30 (30
Sillers, Violet A. Thompson Little	102	60		McKay, Jennie M. McLaughlin, Charlotte	102	30 (
Uro ipson, Libbio M	102	60		Patriquin, E. Muriel	102	30 (
Thompson, Libbie M. Zwich, Gertrude				Spencer, Katheryn E.	102	30 (
Urquhart, Gertrude Zwicker, Flora M. Maris, Mattie T.	88 102 102 102 102 101	60		Spencer, Katheryn E.	102	00 (,,,
Harris, Mattie T. Mutray, Grace A.	102	45		Poor Sections.			
Murray, Grace A. Mckay, Minnie	102	45		roor Sections.			
McKay, Grace A. McKay, Minnie McKay, Anna	102	45		Broderiels Myene	051	37 4	4.4
Mckay, Minnie	101	44		Broderick, Myrna	97	38 (14
McKay, Minnie McKay, Anna McKinnon	101	45		McLean, Christina	64	25 1	
McKinnon, Margaret McKinnon, Isabel McLeod, Marjon	102	70		McLellan, Ada J.	0-1	20 1	LU
Molinnon, Isabel	109	43					
Modeled Marion		45					
Upham, Flora Wilson, Edith S. Cavanagh, Muriel	$\begin{array}{c} 102 \\ 102 \end{array}$	45 45		CUMBERLAN	D		
	102	45		COMBERLAN	υ.		
Cave, Edith S	102	45		Campbell, Jessie B.	102	90 (aa.
Havanagh, Muriot							
Janette lanette	102	30		Lay, E. J.	102 1 102	105 (90 (
Maile, Reta M	102 102	30		Morehouse, F. G.	102	90 (
McI-lanie M		30 30		Muise, J. B.	102	75 (
Mck. Annie B	102			Chapman, Annie	102	60 0	
Mol dy Elizabet M	102	30		Mahoney, Gertrude	78	57 8	
McKay, Elizabeth M. Ross, John Osler	102	30 30		Matheson, Laura	102	75 0	
McLean, John Osler Ross, Varina	$\begin{array}{c} 102 \\ 102 \end{array}$	30	2.2	McCabe, J. M. S. McInnis, Edith S.	102	75 0	
	104	JU	00	Melinis, Edith 5.			•

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McLean, Viola B.	20	14 71	Brundage, Kate	100	44 11 44 56
McLelan, Hazel	102	75 00	Chandler, Nellie	101	44 50 45 00
McMillan, Leonis N.	102	75 00	Cook, Leona M.	102	45 00
Barteaux, Florence	102	60 00	Craig, Muriel E.	102	45 00
Blanche, Julia	102	$60 \ 00$	Crossman, Edna	102	45 00
Boss, Maud	102	$60 \ 00$	Crowley, Madeline	102	36 16
Brannen, W. E.	102	$60 \ 00$	Davies, Bertha H.	82	44 56
Brenton, Bessie	101	$59 \ 41$	Davidson, Enid R.	101	45 00
Brown, Delia J.	20	11 76	Davidson, Thelma	102	$\frac{45}{45} \frac{00}{00}$
Brownell, Grace	102	$60 \ 00$	Davison, Nina E.	102	44 56
Campbell, Helen J.	102	$60 \ 00$	DeMings, Isa C.	101	45 00
Carter, Lillian G.	102	$60 \ 00$	DeWolfe, Hazel	102	42 34
Chandler, Isabel	96	56 47	Fauld, Lulu	96	45 00
Chisholm, Florence	68	40 00	Gallager, Adelaide	102	43 66
Conway, Isabel	96	56 47	Gray, Ethel	99	45 00
Cossitt, O. von B.	96	$56 \ 47$	Harrington, Lottie	102	45 00
Craig, Jean E.	102	$60 \ 00$	Hatherly, Freda	102	45 UV
Fraser, Lulu	102	$60 \ 00$	Henderson, J. Aileen	102	45 00
Freeman, Grace D.	102	$60 \ 00$	Hennesey, Elva G.	102	15 00
Giles, Estella	102	$60 \ 00$	Hunter, Augusta	102	45 00
Glennie, Edith	102	$60 \ 00$	Jeffers, Myrtle R.	102	20 Z#
Hall, B. R.	99	58 2 3	Langille, Hilda	89	45 00
Hawboldt, A. G.	102	$60 \ 00$	Langille, Mabel	102	15 110
Hennigar, Bertie	102	$60 \ 00$	Lewis, Harriett B.	102	45 00
Knickle, Jennie T.	102	$60 \ 00$	Lowther, Elizabeth	102	10 00
Landells, Helen	97	57 06	Matheson, Ada B.	24	4 A DU
Lavers, Winnifred	5 3	31 18	Matheson, Nellie	101	45 170
Mattinson, Bertha	102	$60 \ 00$	Milner, Mildred	102	40 32
McDonald, Jean B.	102	$60 \ 00$	McDonald, Mary	96	44 90
McLeod, Jean	$95\frac{1}{2}$		McEachren Katharine B.	101	OG DV
McNutt, Lucy D.	102	$60 \ 00$	McFadden, L. Beryl	83	45 00
McPherson, LeEtta	82	48 23	McInnis, Alice E.	102	45 170
McSavaney, Annie	96	56 47	McIntosh, Laura B.	$\frac{102}{97\frac{1}{2}}$	
Melanson, L. G.	29	17 05	McKay, Jean E.	$102^{\frac{912}{2}}$	15 00
Morris, Annie		59 70	McKim, Rachel	102	45 00
Morris, Harry S.	$101\frac{1}{2}$		Murray, Pauline C.	102	45 00
Moss, Alva	97	57 06	Nelson, Nancy	101	4 4 170
Moss, Winnie	96	56 47	Newcombe, Hattie	$101 \\ 102$	45 00
Mott, Effie F.	102	60 00	O'Brien, Agnes	100	
Murchie, G. Alice	101	59 41	Parsons, Annie	102	
Murray, Lexie	96	56 47	Pugsley, Mary L.	101	
Newman, Carolyn	96	56 47	Ripley, Jennie	102	
Noiles, Alfretta	96	56 47	Ripley, Ada E.	100	44 L*
O'Rourke, Mary	96	56 47	Ripley, Lella M.	78	
Pearson, Ralph O.	102	60 00	Roach, Bessie H.	102	
Peppard, Ruth	100	58 82	Roach, Lena L.	101	
Sinclair, Willena	102	60 00	Roberts, Katharine B.	$10\overline{2}$	45 56
Stevens, Christena	102	60 00	Rogers, Lena B.	101	45 56 44 34 42 82 82 00
Suthergreen, Elaine	102	60 00	Smith, Mamie G.	96	42 32
Tabor, Gladys	96	56 47	Tabor, Clara	20	8 00
Taggart, Evelyn N.	102	60 00	Thompson, Gertrude	102	45 00
Tait, Nellie E.	102	60 00	Vance, Stiles	96	45 34 42 41 29 41 30 00
Thompson, Nellie	102	60 00	Watt, Daisy	100	29 50
Thompson, Margaret	102	60 00	Angevine, Catharine I.	102	30 11
Trerice, Ruth	102	60 00	Archibald, Violet	48	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Watt, Beatrice	96	56 47	Baird, Gladys	102	
Webb, Hattie M.	102	60 00	Beaton, Olga R.	101	40 00
Beaton, Henrietta	96	42 34	Beattie, Barbara A.	102	30 00 30 00
Beaton, Margaret E.	102	45 00	Brownell, Jessie C.	102	
Bell, Hettie	102	45 00	Brownell, Alice M.	102	30 24
Berry, Sadie L.	101	44 56	Bird, Elsie	96	28 24 28 24
Berry, Ethel M.	101	44 56	Cameron, Mary	96	
Bigney Clara E.	95	41 90	Campbell, Lulu	93	
Blenkhorn, Ethel F.	102	23 81	Canning, Mary	96	28 25 30 00
Boss, Marjorie	102	45 00	Chapman, C. B.	102	90°
Brownell, Etta M.	100	44 11	Chapman, Edith		

	· · · · · · · · · · · · · · · · · · ·			
Chapman, Emma L.	$98\frac{1}{2}$ 28 98	Gilbert, Mary J.	00	90 49
Chapman, Marjorie Chapman, Carrie	102 30 00	Keith, Ethel	$\begin{array}{c} 98 \\ 102 \end{array}$	
Chapman, Georgina Clarke Holon N	79 23 23	McCallum, Martha G.	67	
Clarke, Helen N.	102 30 00	McDonald, Annie J.	102	
Craig, Winnitred Creighton Jane C	88 25 89	Thompson, Luella	101	
Creighton, Jean G.	102 30 00	Thompson, Lila M.	59	
DeWolfe, Emma	101 29 71	z nompoon, zana m.	00	20 10
Dickinson, Carrie C.	100 29 41	Annuitants		
Daw, Sadie Dryed-1	100 29 41		•	
	101 29 71	Charman, Mary E.		60 00
Fage, Lillie L.	54 15 87	Charman, Eliza G.		45 00
Farrell, Annie	101 29 71	MacLeod, Georgiana		$\frac{15}{45} \frac{00}{00}$
Fullerton, Sadie L.	$101\frac{1}{2}$ 29 86	O'Brien, R. B.		45 00
Gilroy, Jennie Gordon Lyde D	96 28 24	Phinney, Josephine W.		45 00
Gordon, Lyde B.	100 29 41	3,13		
Gray, L. B. Hall, Sust	102 30 00			
Hall, Susie Harrison	28 8 23			
Harrison, Irene E.	101 29 71	PARRSBORO		
Hinton Lizzie E.	102 30 00			
Hunter, Winnifred P. Hunter, Francisco	102 30 00	Foster, M. C.	102	105 00
Jackson	102 30 00	Martin, O. McNutt	102	75 00
Renned Ha	102 30 00	Jennison, Mary I.	102	75 00
Lamberton, Pearl E.	101 29 71	Clarke, M. Olive	102	$60 \ 00$
Lawson Fill Earl E.	101 29 71	Crowe, Pauline	102	$60 \ 00$
Leslia B Later W.	102 30 00	Elliott, Edna G.	102	$60 \ 00$
Corrise Call II.	102 30 00	Hatfield, Mary	102	$60 \ 00$
Lawer, Winnie	96 28 24	McInnis, Julia	102	$60 \ 00$
1.0wel Elica	23 6 76	McDonald, Hilda	76	44 76
McCo, Lettle	96 28 24	Nelson, Mary B.	102	$60 \ 00$
McCor Marion	97 28 53	Nodwell, Crandall	102	$60 \ 00$
MUC - introd 1.	102 30 00	O'Mullon, Mary	102	$60 \ 00$
Wich, way	102 30 00	O'Regan, Ellen A.	102	60 00
MeD - 1 roteuce	98 28 83	Troop, Beatrice	102	$60 \ 00$
MCWin and villing	96 28 24	Clay, Jean B.	97	42 78
IVICAT . TILGIV	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Elderkin, Winnifred M.	102	45 00
Myers, Catharine Paul, Gertrude Peers, Eva M		Kerr, Minnie G.	102	45 00
p. Gertrude	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Lent, Georgie A.	102	45 00
Peers, Eva M. Reid, William M.	86 25 30	Lent, F. Marion	$\frac{101}{20}$	44 56
Reid, Willina M. Reid, Ethel I	102 30 00	Lockhart, Annie J.	102	8 82
Reid, Willina M. Ripley, Myssel	101 29 71	Newcombe, Lauris J. Nickerson, Leslie C.	97	$\frac{45}{42} \frac{00}{78}$
Ripley, Myrtle Robinson, Carti	54 15 87	Ward, Cora	102	45 00
Robinson, Caroline Roblee, Harriett	101 29 71	Ward, Nema	102	45 00
Roblee, Harriett Roney, Lottie	99 29 12	Welsh, Rexie	98	$\frac{43}{43} \frac{00}{22}$
	96 28 24	Allen, Vera M.	102	30 00
Sim - Cosie	102 30 00	Ballantyne, Agnes	102	30 00
Smile of Williamsed (97 28 53	Black, Annie R.	82	24 12
	102 30 00	Brown, Bessie B.	102	30 00
	102 30 00	Canning, Minnie	26	7 64
OHER THAT VII	101 29 71	Hartling, Lottie F.	102	30 00
	102 30 00	Knowlton, Eva	102	30 00
	102 30 00	Layton, J. Osborne	102	30 00
Tro 411/V H	100 29 41	Morris, Lucy	102	30 00
	101 29 71	Newcoinbe, Erma J.	102	30 00
VanBuskirk, Florence Wells, Mary E. Whitman, Appie E	102 30 00	Quinn, Dora	101	29 71
Whitman, Annie E.	1011 29 86	Roberts, Vivian	102	30 00
-man, Annie E.	102 30 00	Robinson, Alice A.		29 86
		Salter, Carolyn H.	102	30 00
Poor Section	18.	Seavey, Elizabeth H.	102	30 00
		Yorke, Nellie A.	102	30 00
Blenkhorn, Ida Brown, Rose Cown, Adam	102 40 00			20 00
	102 40 00	Poor Sections		
	102 40 00			
	96 37 64	Canning, Hazel	64	25 10
Crossman, Evelyn Crowe, Ida	73 28 63	Duffy, Marie	102	40 00
, kua	69 27 06	Yorke, Lillian	89	34 90
	•	•		

Consolidated Sect	ions.		Philippa, Sr. Mary	102 102	45 00 45 00
Advocate		30 00	Robichaud, Marie	101	AA 50
Wentworth		30 00	Sabean, Ina E. Saulnier, Laura E.	102	45 UU
DIGBY.			Thibodeau, Beatrice	101	AA 50
DIGB1.			Thimot, Marie Elee	102	45 00 45 00
Coulter, Christina S.	102	90 00	Walsh, Grace B.	102	45 00
Belliveau, Marie Anne	100	58 82	Westcott, Anna P.	102	30 OV
Belliveau, Willie J.	102	60 00	Amirault, Celestine M.	$\begin{array}{c} 102 \\ 102 \end{array}$	30 00
Cecile, Sr. M.	102	60 00	Berry, Florence M.	102	30 OV
Crawford, Florence M.	82	48 23	Blackford, Lillie D.	102	3U 00
Crowell, Gladys R.	$\begin{array}{c} 102 \\ 101 \end{array}$	$60 00 \\ 59 41$	Churchill, Helen Louise Comeau, Margaret M.	102	30 UU
Denton, B. Mildred	95	55 88	Condon, Kathryn	102	$\frac{30}{29} \frac{00}{71}$
Eaton, Vera H. Finigan, Malcolm Daley	102	60 00	Cossaboom, Annie F.	101	30 00
Hogg, N. W.	102	60 00	Crowe, C. Beatrice	102	20 UV
Holmes, Margaret E.	102	60 00	Elliott, Mabel Irene	102	29 71
Longley, Ronald 5.	102	60 00	Geddy, Mary F.	$\begin{array}{c} 101 \\ 102 \end{array}$	20 UV
Madeleine, Sr. M.	102	60 00	Haines, Viola V.	102	3U UU
Melanson, F. E.	$\begin{array}{c} 102 \\ 99 \end{array}$	$\frac{60}{58} \frac{00}{23}$	LeBlanc, Madeline LeBlanc, Symphorien	102	20 UU
Munro, Cora Mae	102	60 00	Melanson, Mary Mae	102	30 00 30 00
MacCallum, Mabel W.	102	60 00	Melanson, Nellie M.	102	30 00
McNeill, Bessie J. Norbert, Sr. M.	$10\overline{2}$	60 00	Miller, Bessie B.	102	20 00
Powell, Lillian	102	60 00	Mullen, Evangeline Lane	102	sa uv
Ring, Myra	102	60 00	MacKay, Grace D	$\begin{array}{c} 102 \\ 101 \end{array}$	29 11
Robertson, Gertrude	102	60 00	Neiley, Marjorie G.	102	20 UV
Ruggles, Annie B.	102	60 00	Prime, Lenetta	102	20 UV
Surette, Henry P.	$\begin{array}{c} 102 \\ 102 \end{array}$	$60\ 00$	Pugh, Maude L. Rice, Olive A.	15	$\frac{3}{4}$ $\frac{41}{30}$ $\frac{30}{00}$
Tibert, Melda Greta	102	60 00	Ritchie, Florence M.	102	30 00
Tosh, Ivy I. Turnbull, Bessie B.	102	60 00	Robbins, Mildred F.	102	05 10
Wambolt, Gertrude	102	$60 \ 00$	Robichaud, Eveline	861	่อกบบ
Young, Ermina Vesta	102	60 00	Robichaud, Mary Eva	$\begin{array}{c} 102 \\ 102 \end{array}$	อก บบ
Amirault, Ambrosine J.	101	44 56	Saulnier, Pauline M.	102	ขก ∪∪
Anthony, Sr. Mary	102	$\begin{array}{cccc} 45 & 00 \\ 44 & 56 \end{array}$	Thibeau, Cordelia R.	102	30 00 30 00
Babin, Laura	101	$\frac{44}{45} \frac{30}{00}$	Theriault, Symphorien Thimot, Marie Elise	102	30 00
Belliveau Marie Autoinetto	102	45 00	Thurber, Bessie G.	102	อก บบ
Belliveau, Mary Zeta Bingay, Honoria G.	83	36 60	Welch, Fannie A.	102	00 A P
Bourneauf, Marie Emma	93	41 01	Wentzell, Mildred	$\begin{array}{c} 100 \\ 102 \end{array}$	$\frac{25}{30}$ 00
Bruce, Grace L.	102	45 00	Young, Alva Jane	102	
Comeau, Anna E.	96		Poor Section	a .	
Comeau, Annie Esther	102	45 00	Poor Section		32^{55}_{255}
Comeau, Artemise	$\frac{102}{102}$	$\begin{array}{c} 45 & 00 \\ 45 & 00 \end{array}$	Bowlby, Cora Mae	83	27, 50
d'Entremont, Victoria I.	102	45 00	Bowlby, Eva T.	83	441 00
D'Eon, Laura F. Deveau, Mary Ellen	102	45 00	Campbell, Irma B.	102 88	01 01
Doucet, M. Adele	102	45 00	Chute, Mary Ann	102	40 UV
Harris, Nellie M.	47	20 72	Crawford, Annie Mae	97	38 04 38 82 38 04
Higby, Helena Mae	102	45 00	DeForest, Ethel Viola	99	
Holland, Sophie Beryl	$\begin{array}{c} 36 \\ 102 \end{array}$	15 87 45 00	D'Eon, Elite Rose Doty, Floris G.	97	1/1 1/0
Lane, Stella Lee	99	43 66	Didwidoo Rata I	102	10 110
LeBlanc, Ann Elizabeth LeBlanc, Marie Rose	102	45 00	Hutchinson, Welthie K.	$\begin{array}{c} 102 \\ 102 \end{array}$	
LeBlanc, Mary Lucy	102	45 00	Parker, Ida May	90	
LeBlanc, Marie Annie	102	45 00	Robichaud, Marie Lea	100	35 00 40 67 26 67
LeBlanc, Marie Eulalie	102	45 00	Thibodeau, Catherine	68	20 0
LeBlanc, Marie E.	102	45 00	Sabean, Millie		
Marshall, Anna Mitchell	102	45 00 45 00	Annuitants		.0
Melanson, Rose A. Modesta, Sr. Mary	$\begin{array}{c} 102 \\ 102 \end{array}$	45 00			45 00
Modesta, St. Mary Moore, Maude	102	45 00	Goodwin, Mrs. Emma M	•	
McNeill, Winifred	101		Sister M. Ursula		45 00 30 00
O'Brien, Cassie W.	102	45 00	Sulis, Mrs. Lila A		80 0
Outhouse, Hattie I.	19	8 37	Smallie, Mary I.		

GUYSBORO.			Tobin, Hilda M.	102	30 00
Hemeon M. D. W.		105 00	Walsh, Lauretta K.	102	
Hemeon, M. DeW. Lowther, Anna H. McGregor, Edith Lore	$\frac{102}{72}$	$105 00 \\ 52 93$	Poor Section		
McGregor, Edith Jean Wells, Core	102	75 00	1 doi Section		
Wells, Cora A.	102	75 00	Cresine, Hattie Maud	80	31 37
Buckley Willel J.	102	60 00	Delancy, Julia T.	59	23 13
Buckley, Hilda E. Chisholm, Christina Hunt, Blanche	$\frac{102}{102}$	60 00 60 00	Giffin, Susie L. Hart, Augusta M.	$\begin{array}{c} 32 \\ 102 \end{array}$	$\begin{array}{cc} 12 & 55 \\ 40 & 00 \end{array}$
Hunt, Blanche	102	60 00	Kenny, Katherine B.	91	35 68
Ravanagh, Florence E.	102	60 00	Laurie, Lola Viver	68	26 67
Lawlor D	102	60 00	Murphy, Elizabeth C.	84	32 94
Lawlor, Rose Frances McGillivray, Amelia McKenzie, Sadio V	$\begin{array}{c} 101 \\ 102 \end{array}$	59 41 60 00	O'Connor, Margaret E. O'Connor, Gladys	88 100	34 51 39 21
McKenzie, Sadie V.	102	60 00	Revnolds, Bertha	39	15 29
Oxley, Gertrude (). Rafuse, Vera Course	99	58 23	,,,		
Baree Vicia Grace	102	60 00	Special Poor Sec	tions.	
Baker Till	102 95	$\frac{45}{41} \frac{00}{90}$	Laborate H. Mulaan co	c. 91	26 76
Blanchard, Annie J. Boudreau, Evaportino F.	95 97	$\frac{41}{42} \frac{90}{78}$	Lakedale, H. McLean, see Yankee Cove, E. W. Peit		40 (0
Boudreau, Evangeline E.	102	45 00	zsch, sec.	32	9 41
Cliffon 1 Philic	102	45 00	– Lundi, Rev. A H Cormiei		
Canas May	102	45 00	Sec.	59	17 35
Callah " " " " " " " " " " " " " " " " " " "	$\begin{array}{c} 102 \\ 102 \end{array}$	$\begin{array}{cccc} 45 & 00 \\ 45 & 00 \end{array}$	Consolidated Sec	ction.	
Chisholm, Ethel M. Ehler, Minnig F	102	6 48	Consondated Sec		
Chler Marine L.	102	45 00	Roman Valley, Martin		
Girro E.	100	6 48	Doyle, Sec.	102	30 00
Thish if Scatting E.	$\begin{array}{c} 102 \\ 102 \end{array}$	$\begin{array}{cccc} 45 & 00 \\ 45 & 00 \end{array}$	Annuitant,		
Johnson, Agatha Kirk, Gertrude P	102	45 00	71111411411		
Legge werning D.	101	44 56	Hanifen, Maggie		30 00
CERT TATOMAS	102	45 00			
webs' - arkarel II.	102 102	45 00 45 00			
Wide Contribution	96	42 34	ST. MARY.		
**************************************	102	45 00			
ORD TO CENT MAY	100	44 11	Cook, Leda Beatrice	100	48 23
Rogers, Mary Ellen Spanks, Elora I	$\begin{array}{c} 102 \\ 102 \end{array}$	$\begin{array}{c} 45 & 00 \\ 45 & 00 \end{array}$	Hamilton, Ada Julia Manson, Agnes C.	$\begin{array}{c} 102 \\ 102 \end{array}$	$\begin{array}{ccc} 60 & 00 \\ 60 & 00 \end{array}$
	102	45 00	McLeod, Annie May	101	59 41
	102	45 00	Paget, Edith C.	101	59 41
	102	30 00	Cruickshank, Alice P.	84 99	37 04
Hady, Sadie B	$\begin{array}{c} 102 \\ 101 \end{array}$	$\begin{array}{ccc} 30 & 00 \\ 29 & 71 \end{array}$	Fisher, Clara I. Howard, Ruth W.	100	$43 66 \\ 44 11$
	102	30 00	Inglis, Clara M.	102	45 00
Jameson, Roberta Kennedy, Lena Kenny, Marraret	102	30 00	Jollotta, Edna M.	86	37 92
Kenny, Margaret	102	30 00	Kinney, Georgina	102	45 00
Low, Mary	$\begin{array}{c} 102 \\ 102 \end{array}$	$\frac{30}{30} \frac{00}{00}$	Lent, Donald S. Lowe, Elizabeth A.	$\begin{array}{c} 99 \\ 102 \end{array}$	$\begin{array}{cccc} 43 & 66 \\ 45 & 00 \end{array}$
La Kathorina Mr	69	20 29	Mitchell, Marion J.	99	43 66
Lumsden, Gertrude S. Laurie, Mary Ann Leydon, Ella Louise	102	30 00	Archibald, George II.	83	24 41
Lawrent, Ella I	102	30 00	Archibald, Edmund	78	22 94
Lui IVI, Hilda I	93 98	27 36 28 83	Baker, Eva J. Bonsfield, Rosa B.	$\begin{array}{c} 98 \\ 101 \end{array}$	28 83 29 71
Miller, Mary C. Mys. Florence A	102	30 00	Fisher, Leo G.	87	25 59
Miller, Florer C.	102	30 00	Murdoch, Lillian	102	30 00
Marion C	91	26 77	Sutherland, Gladys	99	29 12
Manionald Class	$\begin{array}{c} 102 \\ 78 \end{array}$	$\begin{array}{cccc} 30 & 00 \\ 22 & 94 \end{array}$	Wilson, Florence	101	29 71
Rogers, Isabel	91	26 77	Poor Sections	•	
Olm "I Utania D	102	30 00		0.2	10.01
Straimm, Francisco	92	27 06	Bray, Mary	33	12 94 35 68
Strahan, Emma May Stetson, Mary A. 2	$\begin{array}{c} 102 \\ 102 \end{array}$	30 00 30 00	Chisholm, Mary Doull Garrison, Goldie	$\begin{array}{c} 91 \\ 102 \end{array}$	40 00
Mabel L.	98	28 83	McLean, Anna Bruce	83	32 55
2					

Special Poor Sect			Bishop, R. A.	102	60 00
Special Foor Sect	10118.		Blackman, W.	102	-60 OU
Chegoggin, Charles Mai.	1_		Bowden, I. M.	102	60 00
man, Sec.	98	28 82	Bowden, L. J.	102	60 00
Union, S. W. Mack, Sec.	33	$\frac{-9}{9} \frac{70}{70}$	Brims, M. C.	102	60 00
omon, s. III mach, cou			Brodie, I.	102	60 00
			Burgoyne, A. V.	102	60 00
			Carmel, Sr.	102	60 00
HALIFAX CIT	Y.		Cecelia, Sr.	102	60 00
			Clark, E.	102	60 00
McKay, A.	77	79 26	Conapta, Sr. M.	102	60 00
Blackwood, E. F.	102	90 00	Colquhoun, L. W.	102	- สด
Blois, H. II.	102	90 00	Conrad, E. M.	102	ഭവ സ
Brunt, H. D.	102	90 00	Cunningham, A. M.	$\begin{array}{c} 102 \\ 102 \end{array}$	- สถา 00
Butler, G. K.	102	90 00	Dempsey, I. B.	102	- 69 UV
Cummings, E.	$\frac{102}{102}$	$\frac{90}{90} \frac{00}{00}$	Dempster, M. W.	102	- ഒറ 👓
Huggins, G. M.	22	19 41	Denton, H. A.	102	- สก บบ
Inglis, R. E MacKintosh, S. K.	$1\overline{02}$	90 00	Dolorita, Sr. Dwyer, M. I.	102	രവ
Marshall, G. R.	102	90 00	Edwina, Sr.	102	60 00
Matheson, D. J.	102	90 00	Ernestine, Sr.	102	60 00
Matheson, D. M.	102	90 00	Ethelbert, Sr.	102	60 00
Morton, S. A.	102	90 00	Florence, Sr.	58	34 12 60 00
Murray, Mme.	102	90 00	Flowers, E. M.	102	60 00
O'Hearn, P.	102	$90 \ 00$	Flowers, H. L.	102	K1 11
Rosaire, Sr.	102	90 - 00	Freeman, N.	87	an uv
Trefry, J. H.	102	$90 \ 00$	Fry, B. E.	102	ะถ บบ
Agnes, Sr. R.	49	36 02	Gerald, Sr.	102	ะถ บบ
Armitage, H. D. A.	102	75 00	Graig, L. C.	$\begin{array}{c} 102 \\ 102 \end{array}$	ca uv
Bigney, E. M.	102	75 00	Harlow, A. O.	102	60 00
Blackie, E. M.	102	$\frac{75}{60} \frac{00}{00}$	Ignatia, Sr.	102	ะถ บง
Campbell, J. P.	$\frac{102}{102}$	$\begin{array}{ccc} 60 & 00 \\ 75 & 00 \end{array}$	Kelly, Mme.	$10\bar{2}$	60 00
Cecelia, Sr. F.	102	$75\ 00$	Kenney, M. D. Laracy, A. X.	102	60 00
Clark, L. G. Concepta, Sr. Marion	102	75 00	Leontine, Sr.	102	60 00 60 00
DeChantal, Sr. F.	102	75 00	Lockward, G. E.	102	60 00
Dexter, E. H.	102	75 00	McCurdy, M. J.	102	60 00
Distant, M. L.	102	75 00	MacDonald, A. A.	102	ca uv
Douglas, H. G.	102	$75 \ 00$	MacKay, R.	102	ഹ 30
Ethelred, Sr.	102	75 00	McManns, Mme.	$\begin{array}{c} 35 \\ 102 \end{array}$	ራሴ ሀሃ
Finn, Mme.	102	75 00	Mason, B. E.	102	ca w
Francis, Sr.	102	$75\ 00$	Maxwell, J. M.	102	ea w
Gillen, Mme.	102	75 00	O'Brien, M. A.	$10\overline{2}$	60 00
Paverstock, A. M.	$\frac{102}{102}$	$\begin{array}{cc} 75 & 00 \\ 75 & 00 \end{array}$	Pace, J. I. Palmer, G. L.	102	60 00 60 00
Henrion, C.	102	75 00	Peart, A. H.	102	60 00
Holder, E. G. Lyons, M.	102	75 00	Peters, F. A.	102	čň 00
Marshall, L. E.	102	75 00	Phelan, M. I.	102	60 00
Macdonald, H. M.	102	75 00	Pius, Sr.	102	$c \cap v $
Maria, Sr. S.	102	75 00	Publicover, L. D.	102	an uv
Nicoll, M. W.	102	75 00	Pye, E. C.	$\begin{array}{c} 102 \\ 102 \end{array}$	60 00
Phelan, F. J.	102	75 00	Rankine, A. B.	102	0/1 UV
Reeves, R. D.	102	60 00	Ross, E. J.	102	60 00
Sibley, G. M.	102	75 00	Saunders, A. C.	102	60 00
Teresa, Sr. J.	102	75 00	Shields, E. G.	102	60 00 60 00
Vickery, H. B.	102	75 00	Sims, S. A.	102	
Vincent, Sr. A.	102	75 00 75 00	Smith, S. B.	102	AA IIV
Vincent, Sr. M. Vincent, Sr. T.	$\begin{array}{c} 102 \\ 102 \end{array}$	75 00 75 00	Sullivan, Mme. Theakston, H. S. F.	102	
Wilson B. C.	102	75 00	Thompson, F.	102	
Agnes, Sr. M.	102	60 00	Trefry, E. C.	102	
Allen, M. E.	102	60 00	Tulloch, M. E.	102	
Agrinas, Sr.	102	60 00	Tynan, J. C.	$\begin{array}{c} 102 \\ 102 \end{array}$	
Archibald, S. M.	102	60 00	Umlah, A. L. B.	102	
Baldock, O. M.	102	60 00	Vincent, Sr. R.	102	60 00
Bernard, Sr.	102	60 00	Wakely, A. C.	100	

Wallace, E. M. Warner E. D.	102 60 00	Trivett, M. E.	102 45 00
Warner, E. B. Wickwire	78 45 88	Vaughan, E. M.	102 45 00
Wickwire, A. L.	102 60 00	Vauchan K A	100 45 00
Wiswell, I. M. Woodrigh	102 60 00	Walsh, A. M. Warner, M. F. Wells, C. Wells, M. H.	102 45 00
Woolrich, M. E.	102 60 00	Warner, M. F.	102 45 00
Xavier, Sr.	102 60 00	Wells, Ć.	102 45 00
	102 45 00	Wells, M. H.	102 45 00
Anning	102 45 00	Wynne, Mme, A. M.	102 45 00
	102 45 00	Foley, I.	102 30 00
Bayer, A. L. Beatrix, Sr. Blaker	102 45 00	Imelda, Sr.	102 30 00
	102 45 00	Jemmott, M. F.	
Cameron, M. I.	102 45 00	Patrick, Bro.	102 30 00
	102 45 00	Reinhardt, E. B. Sweeney, M. Vair, J. D.	102 30 00
Christina Sr	102 45 00	Sweeney, M.	102 30 00
Codie, Mme.	102 45 00 $102 45 00$	vair, J. D.	50 14 70
Dunningham E S	102 45 00	Annuitan	
Catherine, Sr. Christina, Sr. Codic, Mme. Cunningham, E. S. Depazzi, Sr. Devine, M. F.	102 45 00	Annuitan	ts.
CVIDA NE	102 45 00	Creighton, I. M.	60 00
Ethelburga, Sr. Felix, Sr	102 45 00	Delahanty, Kate	60 00
Felix, Sr. Griera	32 14 11	Gaul, R. E.	60 00
Grien, I.		Hall, H. McG.	60 00
Gualland, M. H.	102 45 00	Shields, Sarah	60 00
Gualbert, Sr. Hamilton, H. H.		Broadhurst, M. E.	45 00
Hartion, H. H.		Coleman, H. E.	45 00
Healy, K. E.	$\begin{array}{cccc} 102 & 45 & 00 \\ 102 & 45 & 00 \\ 102 & 45 & 00 \end{array}$	Curran, È. M.	45 00
Hoben, A. G. Hurley K. Y.	102 - 45 00	Hartigan, C.	45 00
Hurley IZ	102 45 00 102 45 00 70 30 87	Johns, M. A.	45 00
Hurley, K. V. James, C. A. Jamieson, H.	70 30 87	Lyle, Emily	45 00
Jamiecon II.	102 45 00	McGregor, Annie	45 00
John Baptist, Sr. Kenneda, I. J.	102 45 00 102 45 00	Putnam, A. F.	45 00
Johnston, I. J. Kennedy M.C.	102 45 00	Torrey, C. E.	45 00
Kennedy, M. C.	$102 ext{ } 45 ext{ } 00 \\ 102 ext{ } 45 ext{ } 00$	Wier, Lewis	45 00
Kennedy, M. C. Leo, Sr. Logan, A	102 45 00	Willis, E. J.	45 00
Long Sr.	102 45 00		
Logan, A. Lyall, B. H. Mary, Se	102 45 00		
Mary, Sr. McArth.	102 45 00	HALIFAX COU	INTY.
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Macketter, I. R	102 45 00	Stapleton, W. C.	102 105 00
	102 45 00	Archibald, Bertha May	99 58 23
McConell, Mme.	102 45 00	Archibald, C. Mabel	5 2 94
WINI THAT HE IS	102 45 00	Boutilier, Muriel	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Martin, M. I.	1(2 45 00	Burgess, Florence A.	101 59 41
Masi ell, E. A.	102 45 00	Burris, Annie	102 00 00
Marchell, T. E. T	102 45 00	Burris, Jennie P.	100 58 82
Mitchell, E. A. Mooney, E. M. O'l onaghue M. V. J.	102 45 00	Cameron, Sadie E.	101 59 41
Can. "KILLIP AN Y Y	$102 45 00 \\ 102 45 00$	Burris, Jennie P. Cameron, Sadie E. Christie, Margaret A. Creighton, Frances PeVan, Nano Fisher, Helen L. Gallagher, Mildred Hamilton, Mary A.	88 51 76
Power, N. N. Raphael Sr	102 45 00	DeVen Neve	98 57 65
Rapt, N. N.	52 22 93	Figher Holon I	102 60 00
	102 45 00	Gallagher Mildred	$102 60 00 \\ 102 60 00$
AND THE WILL WE LI	15 6 61	Hamilton, Mary A.	102 60 00
Reta C. Bro.	102 45 00	Hawkins Viola S	102 60 00
Reta, Sr. Maria Reta, Sr. Maria Reta, Sr. M.	102 45 00	Hawkins, Viola S. Harrison, Helen	102 60 00
Rockett, M. M. Ross, C. E.	102 45 00	Henry, Ella K.	96 1 56 76
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Ross, C. E. Sheehan	102 45 00	Hiltz, Adelaide S.	102 60 00
Sheehan, H. I.	102 45 00	Jolimore, Agnes	102 60 00
Smith, A. K. Sullivan, M.	54 23 81	Little, Flora	53 31 18
Sull'van, M	56 24 69	Keeler, Celia	102 60 00
	102 45 00	Kempton, Muriel V.	102 60 00
Sullivan, M. T. Theakston, S. F.	102 45 00	King, Ada A.	391 25 22
Theakston, S. E. Travers, A. A	102 45 00	Mitchell, Guy M.	101 59 41
Travers, A. A.	102 45 00	MacDonald, Daisy H.	102 60 00 102 60 00
-•	29 12 79	Moseley, Mabel C.	102 60 00

Attraction D	100	60	00	Conrad, Hazel B.	102	30	00
Miller, Katherine F.	102	60		Cooke, Nettie	102	30	00
McPhail, Annie L.	102 102	60		Coney, H. Mae	102	30	00
Noonan, Gertrude	102		00	Dechman, Lottie E.	102	30	00
Schnare, Annie C.	101		41	Dickie, Maude	102	30	00
Scott, Catherine M.	102		00	Dillman, Clara	102	30	00
Silver, Effie S.	102		00	Erskine, Alexandra	91	26	77
Smith, Marion R.	97		06	Etter, Florence E.	102	30	Oυ
Stevens, Verna B.	102		00	Ellis, Gertrude Jean	102		00
Webber, Myrtle E.	97		06	Fahie, Lydie	95	27	94
White, J. Mabel	102		00	Fougere, Timothy A.	95	27	94
Wolfe, Jessie A.	100		11	Fraser, Lulu Jean	102	30	00
Bentley, Bessie C.	33		$\overline{55}$	Gardiner, Mossie B.	25	7	35
Boudreau, Rose M.	$\frac{33}{32}$		11	Gaetz, Florence E.	42	12	35
Boudreau, Theresa M.	102		00	Geddes, Aubrey K.	$95\frac{1}{2}$	28	09
Boutilier, Adelaide C.	102		00	Graham, Alice Muriel	102	30	00
Brown, Jessie M.	90		69	Hall, Clarence	$\begin{array}{c} 72\frac{1}{2} \\ 98\frac{1}{2} \end{array}$	21	32
Bruce, Carrie L.	61 1			Hawkins, Ora W.	$-98rac{5}{2}$	-98	yo
Campbell, Verna	97		78	Hyson, A. E.	102	30	00
Christie, Ruth M.	102		00	Hawkins, Vera A.	73	91	41
DeVan, Eileen	102		00	Havill, Ruth B.	69	-90	20
Faulkner, Melissa	92		57	Hiltz, Reta E.	97	-98	50
Foley, Arley M.					88	95	שפ
Findlay, Sadie	102		00	Hubley, Irene G.	92	-97	UD
Garrison, Vera G.	102		00	Higgins, Elvie M.	102	20	Uν
Harpell, Cora M.	102		00	Hawboldt, Ida E.	102	-20	UΨ
Harris, Mildred L.	102		$\begin{array}{c} 00 \\ 24 \end{array}$	Hilchey, Nellie M.	102	-20	Uυ
Havill, Maizie B. S.	89			James, Cora V.	102	30	00
Hilchie, Stella B.	102		00	Johnson, Eva C.	67 }	19	עפ
Hume, Bessie W.	102		00	Kearns, Mary E.	102	-90	UV
Innis, E. Jean	97	44	78	Kelly, Jennie L.	783	വ	117
Kent, C. Winifred	96		34	Kennedy, Ella Claire	102	വ	w
Laidlaw, Elizabeth	102		00	Kennedy, Irene Lucy	98	റയ	700
Langille, Jessie E.	102		00	Killen, Marguerite E.	102	90	1/0
Langille, Myrtle B.	89		24	Leslie, Alice L.	97	au	มษ
Manthorne, Flora I.	102		00	Leslie, Ester	97	- av	1,10
Maguire, Nola P.	102		00	Leslie, Lawrence	92	ดๆ	UV
Meagher, Adela B.	102		00	LeMoine, Adele E.	102		
Morrison, Clara	101		56	Logan, Clare Jean	97	au	1,70
Morrison, Mary	102		00	Martin, Kathryn	102	- 91	00
Moseley, Kuth	102		00	Mitchell, Nellie T.	102		
Murray, Bertha F. I.	102		00	Moore, Gertrude	97	28	58 71
MacCarthy, Katherine M.	102		00	Morash, Jean Isabel	101		
MacCarthy, Tena J.	102		00	Murphy, Winnifred P. Murphy, Nina V.	102		
MacKay, Isabel	102		00	Murphy, Nina V.	53	15	58
McKenzie, Margaret A.	102		00	Meyers, Edna I.	78	22	94 71
MacKintosh, Mona B.	102		00	Meyers, Elvie I.	101	29	71 82 00
McLeod, Beatrice	102		00	Myra, Blanche M.	64	18	00
Naufts, Minnie R.	83		60	MacInnis, Edith Lucy	102		
Rankine, Ella E.	102		00	McKeil, Martha J.	79		23 00
Roche, May	102		00	McPhee, Elsie G.	102	30	ĺοĎ
Rose, Mary H.	102		00	MacQuarrie, Catherine R.	102	30	00
Siteman, Annabel	98		22	Parker, Inez Muriel	102	30	00
Siteman, Eva K.	102	~	00	Pye, Ethel Alice	944	27	80
Smith, Isabella	973		00	Reddy, Hilda	853	25	- 17
Thomas, Bessie	102		00	Reid, A. Edith	5	1	15 47 00
Thompson, Myrtle F.	102		00	Russell, Plessah M.	102	30	65
Tulloch, Emily C.	97	42		Scott, Kathleen	94	27	65 53
Webber, Joyce	102		00	Smith, Laura E.	97	28	00
Wier, Amelia	821		38	Stoddard, Amy V.	102	30	00
Wolfe, Janet B.	80		28	Thompson, Martha J.	102	-30	40
Boyle, Lucy E.	98		83	White, Edith May	49	14	53
Ronang, Maud	102		00	Warner, Mary B.	80	23	00
Burnett, Nellie R.	102		00	Yeadon, Annie L.	102	30	, ,,
Burris, Fannie	102	30	00	Zinc, Olive L.			
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Poor Section	ns.		Smith, Lizzie A.	102	45 00
			Smith, Nellie A.	102	45 00
Ashe, Mabel L.	94	36 86	Spares, Sadie J.	102	45 00
	82		Wallace, Ellen	97	
	49		Withrow, Adelia	102	
***USON PAGE!					$\frac{45}{45} \frac{00}{00}$
Greenough, Florence A.	60		Withrow, Mary	102	45 00
Harris Charles A.	104		Carr, Enna L. N.	102	30 00
	102	40 00	Casey, Gladys B.	102	30 00
	102	40 00	Cochrane, Jean C.	84	
Melvin, Florence M.	89		Davidson, Rebecca A.	102	$30 \ 00$
MacCarthy, Chadwick McDonald Appelel	77		Densmore, Helena	85	25 00
McDonald, Annabell	83		Graham, Alice T.	102	30 00
Leary, Mary C.	78	$30 \ 59$	Greenough, Jennie	102	30 00
Roche Agner D	9	5 52	Hennigar, Eva M.	95	27 94
Roche, Agnes D.	102	40 00	Irving, Jessie L.	96	28 24
Shellnutt, Annie M.	35	12 94	Laffin, Lillian	102	30 00
Walsh Ada M	86	-53 - 72	Macdonald, Olive		26 33
Valsh, Ada M. Vebber, Carta M.	108	42 35	MacInnis, Eva M.	102	
Vebber, Greta M. Vhalen, Lean May	97	58 04		81	23 82
Whalen, Jean May	$\begin{array}{c} 97 \\ 78 \end{array}$	30 59	McKay, Ethel	102	30 00
Juan May	10	30 39	Shortt, Martha II.		
Annuitante			Spares, Muriel	96	
	5.		Sutherland, Grace	102	30 00
diller, George J. Jerdman, W. C. Jary Ann. S.		240 48	Poor Section	ns.	
lary A		60 00		* ^ =	
Onko na St.		60 00	Anthony, Edna B.	102	40 00
lime Mary L.		45 00	Irving, Mabel J.	88	34 51
acon Mary E.		45 00	Meek, Katherine	102	40 00
ibbo Amelia		$30 \ 00$	Murphy, Clara	77	30 19
abbons, John		30 00	McCulloch, Lucy M.	102	40 00
			McLearn, Elizabeth	73	28 63
man recording to the street, and the street, and			Thompson, Ina G.	73	28 6 3
			Withrow, Flossie L.	100	39 21
HANTS EAS	Т.		Woodworth, Elizabeth	102	40 00
Moore, Jamesina hase, Gertrude M. hisholm F. Kothorina	102	75 00			
high, sortifulle M.	102	60 00			
one con the matherine	102	60 00	HANTS WEST	Г.	
oote, Elida W. rank, Mabel V. dolesworth, N. J.	102	60 00			
lolos, Madel V.	102	60 00	Patterson, Mabel G.	97	8 5 5 8
dolesworth, Mabel	101	59 41	Smith, John A.	99	101 91
Macdonald, Ada H.	102	60 00	Lawrence, LeRoy L.	102	75 00
Macdonald, Ada H. Macdougall, Edith M. MacKenzie, Estella I	102	60 00	Scott, Agnes B.	100	73 53
MacKenzie, Estelle J. PBrien, Annia B	102	60 00	Banks, Minnie L.	102	60 00
Brien, Annie B.	15	8 82	Brown, Edith S.	102	60 00
Ramey, Annie B. cott, James B.	102	60 00		102	60 00
cott, James P.	100	58 82	Burgess, Nellie H.	99	58 2 3
ellars, Pearl	$\frac{100}{102}$		Carde, Edna R.	99	
Inthony, Louise B.		60 00	Davies, Kathleen	29	17 05
allou, Stalla M.		44 33	Douglas, Blanche	102	60 00
	100	44 11	Duff, Jessie J.	102	60 00
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lear "ration I.	102	45 00	Fulton, Elsie L.	102	60 00
	102	45 00	Holland, Beatrice	102	60 00
dwards, Marion dwards, Bessie isher, Mildred raser, Ellen	102	45 00	Mosher, Leona B.	100	58 82
F9a. ' *'**WHF71	102	45 00	McCurdy, Helen M.	102	60 00
	52	22 93	McKay, Grace G.	102	60 00
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10er 1114 I	102	$45 \ 00$	Nunn, Mary E.	102	60 00
		45 00	Thomas, Blanche E.	102	60 00
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le Monald, Donnie	$\begin{array}{c} 102 \\ 102 \end{array}$		White Innia M		5Q Q9
IcNeil, Pearl Rogerson	102	45 00	White, Jennie M.	100	58 82 60 00
lcNeil, Pearl Rogerson	102 81	$\frac{45}{35} \frac{00}{72}$	Wickwire, Margaret A.	102	60 00
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ic Donald, Donnie ic Neil, Pearl Rogerson 'Brien, Miles A. obertson, Jennie A. ose, Maggie C	102 81 101 102	45 00 35 72 44 56 45 00	Wickwire, Margaret A. Wright, Nellie C. Young, Reta M.	102 102 102	60 00 60 00 60 00
ic Donald, Donnie le Neil, Pearl Rogerson Brien, Miles A. obertson, Jennie A.	102 81 101 102 102	45 00 35 72 44 56 45 00 45 00	Wickwire, Margaret A. Wright, Nellie C. Young, Reta M. Borden, Osee Elmira	102 102 102 97	60 00 60 00 60 00 42 78
ic Donald, Donnie le Neil, Pearl Rogerson Brien, Miles A. obertson, Jennie A.	102 81 101 102 102 93	45 00 35 72 44 56 45 00 45 00 41 01	Wickwire, Margaret A. Wright, Nellie C. Young, Reta M. Borden, Osee Elmira Bowes, Viola A.	102 102 102 97 100	60 00 60 00 42 78 44 11
lcNeil, Pearl Rogerson Obertson, Jeppie A	102 81 101 102 102	45 00 35 72 44 56 45 00 45 00	Wickwire, Margaret A. Wright, Nellie C. Young, Reta M. Borden, Osee Elmira	102 102 102 97	60 00 60 00 60 00 42 78

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Cochrane, Pearl A.	102	45		McDonald, Jessie	102	45 00
Dimock, Annie	100	44		Macdonald, Christina	102	45 00
Ennis, Hilda	71	$\frac{31}{42}$		Macdonald, Mary J. MacDonnell, Catharine	102	45 00
Fraser, Daisy R.	$\begin{array}{c} 97 \\ 102 \end{array}$	45		Maclean, Edgar H.	102	45 00
Kelley, Minnie A.	101	44		Rose, Mary Belle	102	45 00
Lowndes, Vera E.	102	45		Townshend, Laura H.	102	45 00
Lynch, Pearl M.	102	45		Sister St. Genevieve	102	45 00
Morison, Madge A. MacKay, Hazel G.	102	45		Sister St. Olga	102	45 00
McDonald, Katherine	102	45		Sister St. Mary	102	45 00
Palmer, Queenie S.	$\tilde{102}$	45		Smith, Margaret	102	45 00
Rose, Annetta M.	99		66	Stewart, Catharine J.	102	45 00
Sweet, Annie E.	102		00	Withrow, Lizzie H.	97	42 78
Salter, Hattie M.	20		82	Withrow, Elsie M.	101	44 56
Underwood, Elizabeth	59		01	Beaton, John H.	102	30 00
Underwood, Emma	102	45	00	Cameron, Emily G.	100	29 41
Wickwire, Gladys A.	101	44	56	Cameron, Mrs. J. A.	53	$\frac{15}{30} \frac{58}{00}$
Wilson, Bertha	102	45	00	Campbell, Margaret	102	30 00
Woodworth, Alfreda	102		00	Chisholm, Gregory B.	102	30 00
Brown, Sarah M.	102		00	Coady, Mary E.	102	30 00
Casey, Minnie E.	88	25		Crispo, Sadje E.	102	7 06
Crockett, Minnie E.	102		00	Fox, Rena M.	24	29 71
Davison, Nellie L.	97		53	Gillis, Josephine	101	94 41
Laws, Lillian F.	102		00	Kennedy, Mary M. A.	$\begin{array}{c} 83 \\ 102 \end{array}$	80 00
Murphy, Lela J.	93	27	36	McArthur, Bridget	101	29 71
MacDougall, Bertha		28	90 90	MacDonald, Agatha I.	102	30 00
McInnis, Jean	102		00 00	MacDonald, Katie A. MacFadyen, Sarah M.	102	30 00
Rose, Laura M.	102	30		MacKichan, Annie B.	102	$30^{\circ}00$
Sanford, Kathleen	$\frac{102}{100}$	29		McKinnon, Katharine M.	102	30 00
Smith, Augusta O.	97		53	McLean, Jessie F.	101	29 71
Smith, Flossie M. Withrow, Ethel A.	102		00	McLellan, Katharine E.	102	30 00
Withtow, Ether 11.	100	00	(7.17	MacNeill, Mary A.	102	30 00
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Poor Sections				Murphy, Frances	102	0, 00
Poor Sections	•			Murphy, Frances Sister St. Thomas	102	30 00
	. 101	39	61	Murphy, Frances	$\begin{array}{c} 102 \\ 102 \end{array}$	30 00
Bush, Ethel			61 68	Murphy, Frances Sister St. Thomas	102 102 102	30 00 30 00 30 00
Bush, Ethel Boyd, Lena T.	101	35		Murphy, Frances Sister St. Thomas Teach, Ellen	102 102 102 102	30 00 30 00 30 00 30 00
Bush, Ethel	101 91 82 102	$\frac{35}{32}$	$\frac{68}{15}$	Murphy, Frances Sister St. Thomas Teach, Ellen Smith, Anna L. Beaton, Cecilia Gillis, Mary B.	102 102 102 102 76	30 00 30 00 30 00 30 00 30 35
Bush, Ethel Boyd, Lena T. Fader, Nellie	101 91 82 102 73	35 32 40 28	$68 \\ 15 \\ 00 \\ 63$	Murphy, Frances Sister St. Thomas Teach, Ellen Smith, Anna L. Beaton, Cecilia Gillis, Mary B. Jamieson, Janet	102 102 102 102 76 87	30 00 30 00 30 00 30 00 22 35 25 59
Bush, Ethel Boyd, Lena T. Fader, Nellie Marsh, Florence	101 91 82 102 73 50	35 32 40 28 19	68 15 00 63 60	Murphy, Frances Sister St. Thomas Teach, Ellen Smith, Anna L. Beaton, Cecilia Gillis, Mary B. Jamieson, Janet Kennedy, Alexander	102 102 102 102 76 87 20	30 00 30 00 30 00 30 00 22 35 25 59 5 88 14 11
Bush, Ethel Boyd, Lena T. Fader, Nellie Marsh, Florence Myers, Leah M.	101 91 82 102 73 50 102	35 32 40 28 19 40	68 15 00 63 60 00	Murphy, Frances Sister St. Thomas Teach, Ellen Smith, Anna L. Beaton, Cecilia Gillis, Mary B. Jamieson, Janet Kennedy, Alexander McCormick, Mary J.	102 102 102 102 76 87 20 48	30 00 30 00 30 00 30 00 22 35 25 59 5 88 14 11 28 53
Bush, Ethel Boyd, Lena T. Fader, Nellie Marsh, Florence Myers, Leah M. McLearn, Alberta	101 91 82 102 73 50	35 32 40 28 19 40	68 15 00 63 60	Murphy, Frances Sister St. Thomas Teach, Ellen Smith, Anna L. Beaton, Cecilia Gillis, Mary B. Jamieson, Janet Kennedy, Alexander McCormick, Mary J. MacDonald, Tena E.	102 102 102 102 76 87 20 48 97	30 00 30 00 30 00 30 00 22 35 25 59 5 88 14 11 28 53 26 18
Bush, Ethel Boyd, Lena T. Fader, Nellie Marsh, Florence Myers, Leah M. McLearn, Alberta Sanford, Janet L. Saunders, Viola P.	101 91 82 102 73 50 102	35 32 40 28 19 40	68 15 00 63 60 00	Murphy, Frances Sister St. Thomas Teach, Ellen Smith, Anna L. Beaton, Cecilia Gillis, Mary B. Jamieson, Janet Kennedy, Alexander McCormick, Mary J. MacDonald, Tena E. MacDonald, Isabel	102 102 102 102 76 87 20 48 97 89	30 00 30 00 30 00 30 00 22 559 54 11 28 58 26 77
Bush, Ethel Boyd, Lena T. Fader, Nellie Marsh, Florence Myers, Leah M. McLearn, Alberta Sanford, Janet L.	101 91 82 102 73 50 102	35 32 40 28 19 40	68 15 00 63 60 00	Murphy, Frances Sister St. Thomas Teach, Ellen Smith, Anna L. Beaton, Cecilia Gillis, Mary B. Jamieson, Janet Kennedy, Alexander McCormick, Mary J. MacDonald, Tena E. MacDonald, Isabel McDonald, Catharine	102 102 102 102 76 87 20 48 97 89	30 00 30 00 30 00 30 00 22 35 59 58 14 11 28 58 26 77 28 53
Bush, Ethel Boyd, Lena T. Fader, Nellie Marsh, Florence Myers, Leah M. McLearn, Alberta Sanford, Janet L. Saunders, Viola P. Annuitants.	101 91 82 102 73 50 102	35 32 40 28 19 40 40	68 15 00 63 60 00 00	Murphy, Frances Sister St. Thomas Teach, Ellen Smith, Anna L. Beaton, Cecilia Gillis, Mary B. Jamieson, Janet Kennedy, Alexander McCormick, Mary J. MacDonald, Tena E. MacDonald, Isabel McDonald, Catharine Macdonald, John D.	102 102 102 76 87 20 48 97 89 91	30 00 30 00 30 00 30 00 22 59 25 88 14 53 26 77 28 53 26 77 28 50
Bush, Ethel Boyd, Lena T. Fader, Nellie Marsh, Florence Myers, Leah M. McLearn, Alberta Sanford, Janet L. Saunders, Viola P. Annuitants. Burgoyne, Naomi	101 91 82 102 73 50 102	35 32 40 28 19 40 40	68 15 00 63 60 00 00	Murphy, Frances Sister St. Thomas Teach, Ellen Smith, Anna L. Beaton, Cecilia Gillis, Mary B. Jamieson, Janet Kennedy, Alexander McCormick, Mary J. MacDonald, Tena E. MacDonald, Catharine Macdonald, John D. MacFadyen, Dan A.	102 102 102 102 76 87 20 48 97 89 91 97 68	30 00 30 00 30 00 30 00 22 35 5 59 14 11 28 58 26 77 28 53 20 00
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McEachern, Annie L.	60	90.00	Manfanlana D.	100	90.00
MacIntosh, Mary M. McIntyre, Victor I		32 68 32 32	Macfarlane, Rose	102	
MacIntosh, Mary M. McIntyre, Victor J. MacKay, Alice M. MacNeil, Catharine McQuarrie, May C. Robertson, Mamie	00 59	10 45	MacKay, Neil MacKeigan, Christene	$\begin{array}{c} 102 \\ 88 \end{array}$	
MacKay, Alice M	90 87	21 95	MacKinnon, Archie	86	
MacNeil, Catharine	69	95 33			30 00
McQuarrie May C	96 86	21 59	MacKinnon, Roderick Maclean, Duncan	102	30 00
Robertson, Mamie	109	37 45	Maclellan, Mary	102	30 00
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Annuitants			Macleod, Lauchina	102	30 00
	•		Macleod, Angus	91	$\frac{36}{26} \frac{77}{77}$
Chisholm, Duncan Davis, Mary		60 00	Macquarrie, Alexande	102	30 00
Davis, Mary McOugreis			Macquarrie, Margaret	88	25 89
McQuarrie, Angus		30 00	Sister St. Alexander C.	102	30 00
,, 8 42		33 33	Sister Margaret Mary	$\tilde{102}$	30 00
Minutes that an experience			Smith Clara	91	00 55
			Sister St. Alexander C. Sister Margaret Mary Smith, Clara Smith, Catherine	102	30 00
INVERNESS NO	RTH.		Smith, Clara Smith, Catherine Timmons, Maud Walker, Margaret	54	15 87
Rough			Walker, Margaret	91	26 77
Boudreau, A. C.	102	$60 \ 00$			
Doucet, Lucy Gillis, Malaster	101	50 41	Poor Section	s.	
Lebi, Malcolm	102	60 00			
Goucet, Lucy Gillis, Malcolm LeBlanc, John Maclellan, Lewis Maclellan, Annie Macleod, Martha Sister, E. P.	101 102 90 102 102 102 102	52 94	Beaton, Annie	84	30 84
Maclan, Lewis	102	$60 \ 00$	Campbell, Catherine	90	33 - 04
Macla Annie	102	$60 \ 00$	Macdonald, Mary Agnes	80	29 37
More Martha	102	60 00	Macdonald, Mary Agnes MacKinnon, Christina Maclellan, Angus Maclellan, Christene Murphy, Alexander Nelson, G. A.	84	30 84
Morse, E. P. Sister St. Andrew Amith, Marion	102	60 00	Maclellan, Ángus	78	28 6 3
Smith St. Midrew	$ \begin{array}{r} 102 \\ 93 \\ 102 \end{array} $	60 00	Maclellan, Christene	102	37 - 45
M Son -	93	$54 \ 71$	Murphy, Alexander	91	$33 \ 41$
AuCoin, James H.	102	45 - 00	Nelson, G. A. Nicholson, Catherine Rankin, Mary	102	37 45
AuCo: James H.	$\begin{array}{c} 102 \\ 102 \end{array}$	45 00	Nicholson, Catherine	91	99 41
Anches state Annu	102	45 00			$34 \ 15$
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	102	45 00	Assistant.		
LeBlanc, Paul LeBlanc, Paul LeBlanc, Pattin	102	45 00	3.1 1 H A 1 T		15 10
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Ingraham, Mary Macdonald Mary	102	45 00	A		
	102	$\begin{array}{c} 45 & 00 \\ 45 & 00 \end{array}$	Annuitants.		
Macdougall, Mary C. Macdougall, Mary Cassie Macdougall, Agnes	100	$\frac{45}{45} \frac{00}{00}$	Mandanill Toron		15 00
Macdougall, Mary Cassie Macdougall, Agnes McGougall, Margaret	104	18 96	Macdonald, Teresa Macdongall, A. S.		$\begin{array}{ccc} 45 & 00 \\ 45 & 00 \end{array}$
Macdougall, Agnes McKinnon, Mary Cassie Maclette	109	45 00	Macdougall, A. S. MacKinnon, Malcolm		45 00 45 00
McKinnon, Margaret Maclellan, A. N. Maclellan, A. N.	100	44 11	Maciximon, Marconn		40 (0)
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Marian, Annie	102	45 00	•		
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Sister Marie du Cenac e Walks. Mary	102	45 00	Ford, R. W.	96	98 82
Sister Marie du Cenac e Walker, Katherine	102	45 00	Swanson P I		105 00
Walker, Katherine Beaten, Mathilda	102	45 00	Swanson, P. I. Webster, Winnifred	102	90 00
Are Katherin	102	45 00	Hardwicke, Helen M.	102	75 00
Beaton, Mathilda	102	30 00	Marsters, Gladys M.	102	75 00
Beaton, Mathilda Cameron, Bridget Ferguson, Mary	101	29 71	MacGregor, Anna	102	75 00
Ferguson, Mary Ladd, Helen	102	30 00	Osborne, Norman A.	102	75 00
Ladd L. Susan	102	30 00	Titus, Elva B.	97	71 31
Ladd, Helen LeBlanc, Lucy LeBanc, Cathorine	102	30 00	Walker, Mabel R.	102	75 00
LeBlane, Lucy	102	30 00	Baker, Dora M.	102	60 00
LeBlanc, Lucy LeFort, Catherine Macdon Michael	102	30 00	Balcom, Hilda B.	93	54 71
LeFort, Michael Macdonald, Daniel	102	30 00	Beckwith, Florence A.	102	60 00
Mandonald, Daniel	96	28 24	Bowlby, Alice M.	102	60 00
Macdonald, Daniel Kacdonald, Josephine Kacdougall, Mary	$\frac{97}{97}$	28 53	Bowlby, Jessie I.	97	57 06
- asan, Mary	102	30 00	Brownell, Louisa V.	102	60 00

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Chute, Frances	102	60 00	Parker, Essie		43 22
Coggins, Adelaide M.	97	57 06	Patterson, Florence S.	98	45 00
Cossitt, Ethel J.	100	58 82	Robinson, Clara A.	102	45 00
Crocker, Hilburne M.	101	59 41	Sanford, Alida R.	102	45 00
	102	60 00	Sawler, Merinda	102	45 00
Cropley, Bertha Ogilvie		60 00	Sawler, Pearl M.	102	45 OV
Dawson, Katherine	102			102	45 00
Elliott, Evangeline	102	60 00	Spinney, Helen L.		45 00
Frank, Merna M.	102	60 00	Thompson, Sadie A.	102	40 04
Gilliatt, Evelyn Ruth	101	59 41	Vance, LuElla	89	39 24
Charge Eve E	$\tilde{1}\tilde{0}\tilde{2}$	60 00	Ward, Edith R.	102	45 00
Graves, Eva E.		60 00	Weaver, Carrie A.	102	45 00
Hicks, Blanche G.	102				29 41
Houghton, Cyretha M.	100	58 82	Blackburn, Laura V.	100	30 00
Illsley, Nellie E.	102	60 00	Clarke, Hazel	102	30 06
Illsley, Lucy A.	102	60 00	Davison, Reta E.	92	27 06
lackson, May Strong	96	56 47	Eaton, Julia W.	102	30 00
	101	59 41	Goodwin, Mary E.	101	20 11
Kennedy, Gladys B.			Lightizer, Marguerite	101	99 71
Kent, Mary A.	102	60 00			30 00
Lewis, Dora F.	102	60 00	Lyons, Elizabeth	102	30 00
Lockhart, Edna C.	102	60 00	Lyons, Everett	102	30 12
Lutz, Carrie M.	102	60 00	Lyons, Florence A.	82	24 12
Mapplebeck, Idella	97	57 - 06	Magee, Isabel	98	יום אם
	102	60 00	Marshall, Lester J.	88	25 87
Marchant, Laura			Martin Tulia M	102	ี ขก บบ
Mitchell, Ida L	100	58 82	Morton, Julia M.		30 00
Morrell, Grace L.	102	$60 \ 00$	Parker, Maude S.	102	5 88
McDonnell, Margaret L.	102	60 00	Punch, Katherine	20	5 //1
Potter, Effie McK.	99	58 23	Sanford, Ruth A.	101	29 71
Dumber Acres I	96	$56 \ 47$	Steele, Beatrice	96	28 24
Purdy, Agnes L.		60 00		71	90 80
Reddy, Gertrude	102		Stevens, Effic		
Reid, Evelyn J.	102	60 00	Turner, Hazel	102	5 88
Thorpe, Katheryn V.	102	$60 \ 00$	Ward, Geraldine	20	30 00
Vance, Emma M.	102	60 00	Westcott, Mabel	102	30 00
	102	60 00	Wood, Mildred M.	102	30 00
Webster, Abbie R.			rrood, militared 2		
West, Gladys 1.	97 60		Poor Sections		
Wright, Joanna J.	99	58 2 3	Poor Sections	;.	
Wright, Joanna J. Wylde, Sara W.	$\begin{array}{c} 99 \\ 102 \end{array}$	58 23 60 00			22 13
Wright, Joanna J. Wylde, Sara W.	99	58 23 60 00 45 00	Poor Sections Algee, Alma	91	32 13 20 72
Wright, Joanna J. Wylde, Sara W. Alcorn, Greta M.	$\begin{array}{c} 99 \\ 102 \end{array}$	58 23 60 00		91 87	32 18 30 72
Wright, Joanna J. Wylde, Sara W. Alcorn, Greta M. Beckwith, Winnifred	99 102 102 102	58 23 60 00 45 00 45 00	Algee, Alma Bent, Lottie A.	91 87	06: 1)>
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Wright, Joanna J. Wylde, Sara W. Alcorn, Greta M. Beckwith, Winnifred Bishop, Hattie L. Borden, Leah A.	99 102 102 102 102 102	58 23 60 00 45 00 45 00 45 00 45 00	Algee, Alma Bent, Lottie A. Beach, Sarah Bishop, Hilda M.	91 87 102 88	36 09 31 09
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Wright, Joanna J. Wylde, Sara W. Alcorn, Greta M. Beckwith, Winnifred Bishop, Hattie L. Borden, Leah A.	99 102 102 102 102 102 102 102	58 23 60 00 45 00 45 00 45 00 45 00 45 00	Algee, Alma Bent, Lottie A. Beach, Sarah Bishop, Hilda M. Bowes, Innetia Boylan, Evelyn M.	91 87 102 88 102 91	36 09 36 01 36 13
Wright, Joanna J. Wylde, Sara W. Alcorn, Greta M. Beckwith, Winnifred Bishop, Hattie L. Borden, Leah A. Boylan, Olive C. Corkum, Prudence	99 102 102 102 102 102 102	58 23 60 00 45 00 45 00 45 00 45 00 45 00	Algee, Alma Bent, Lottie A. Beach, Sarah Bishop, Hilda M. Bowes, Innetia	91 87 102 88 102 91	36 09 36 01 36 13
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Wright, Joanna J. Wylde, Sara W. Alcorn, Greta M. Beckwith, Winnifred Bishop, Hattie L. Borden, Leah A. Boylan, Olive C. Corkum, Prudence Dickie, Gertrude H. Dow, Margaret	99 102 102 102 102 102 102 102 102	58 23 60 00 45 00 45 00 45 00 45 00 45 00 45 00 45 00 45 00	Algee, Alma Bent, Lottie A. Beach, Sarah Bishop, Hilda M. Bowes, Innetia Boylan, Evelyn M. Crossland, Rhena B. Etter, Coralline E.	91 87 102 88 102 91 99 83	36 09 36 01 36 13 32 13 34 96 29 01
Wright, Joanna J. Wylde, Sara W. Alcorn, Greta M. Beckwith, Winnifred Bishop, Hattie L. Borden, Leah A. Boylan, Olive C. Corkum, Prudence Dickie, Gertrude H. Dow, Margaret Eaton, Laura J.	99 102 102 102 102 102 102 102 102 102	58 23 60 00 45 00 45 00 45 00 45 00 45 00 45 00 45 00 45 00 45 00	Algee, Alma Bent, Lottie A. Beach, Sarah Bishop, Hilda M. Bowes, Innetia Boylan, Evelyn M. Crossland, Rhena B. Etter, Coralline E. Eaton, Muriel L.	91 87 102 88 102 91 99 83 102	36 09 31 01 36 13 32 96 29 01 36 01
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Wright, Joanna J. Wylde, Sara W. Alcorn, Greta M. Beckwith, Winnifred Bishop, Hattie L. Borden, Leah A. Boylan, Olive C. Corkum, Prudence Dickie, Gertrude H. Dow, Margaret Eaton, Laura J. Elliot, Ruth Fox, Martha S. Fox, Stella E. Grant, Estella Hall, Ella C. Harvey, Meta A. Harris, Mary H. Henderson, Elizabeth Kilcup, Edith M. Lamont, Nancy C. Levy, Addie G. Mapplebeck, Laura Mapplebeck, Elizabeth Millett, Sadie G. Morse, Dorothy M. Morse, Kate O. Meyers, Bertha MacNeill, Ethel	99 102 102 102 102 102 102 102 102 102 102	58 23 60 00 45 00	Algee, Alma Bent, Lottie A. Beach, Sarah Bishop, Hilda M. Bowes, Innetia Boylan, Evelyn M. Crossland, Rhena B. Etter, Coralline E. Eaton, Muriel L. Forsythe, Donald Forsythe, William H. Trail, Elizabeth Kaiser, Mary B. Lamb, Maie J. Layton, Cecilia Lyons, Mabel Morton, Mabel K. Mullett, Ruth V. McLellan, Dorothy Porter, Grace Reid, Annie Sanford, Ida M. Vaughan, Cora A. Veinott, Laura M. Wamboldt, Isabella	91 87 102 88 102 91 99 83 102 102 86 90 102 86 91 102 97 91 102 97 91 102 90 102	361 091 360 098 361 61 36 001 998 361 61 36 001 998 361 61 36 008 361 361 361 361 361 361 361 361 361 361
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Wright, Joanna J. Wylde, Sara W. Alcorn, Greta M. Beckwith, Winnifred Bishop, Hattie L. Borden, Leah A. Boylan, Olive C. Corkum, Prudence Dickie, Gertrude H. Dow, Margaret Eaton, Laura J. Elliot, Ruth Fox, Martha S. Fox, Stella E. Grant, Estella Hall, Ella C. Harvey, Meta A. Harris, Mary H. Henderson, Elizabeth Kilcup, Edith M. Lamont, Nancy C. Levy, Addie G. Mapplebeck, Laura Mapplebeck, Elizabeth Millett, Sadie G. Morse, Dorothy M. Morse, Kate O. Meyers, Bertha Mac Neill, Ethel MacQuarrie, Gladys Neary, Stella B.	99 102 102 102 102 102 102 102 102 102 102	58 23 60 00 45 00	Algee, Alma Bent, Lottie A. Beach, Sarah Bishop, Hilda M. Bowes, Innetia Boylan, Evelyn M. Crossland, Rhena B. Etter, Coralline E. Eaton, Muriel L. Forsythe, Donald Forsythe, William H. Trail, Elizabeth Kaiser, Mary B. Lamb, Maie J. Layton, Cecilia Lyons, Mabel Morton, Mabel K. Mullett, Ruth V. McLellan, Dorothy Porter, Grace Reid, Annie Sanford, Ida M. Vaughan, Cora A. Veinott, Laura M. Wamboldt, Isabella Webster, Lavina	91 87 102 88 102 91 99 83 102 102 86 90 102 86 91 102 97 91 102 97 91 102 90 102	361 09 361 013 361 019 361
Wright, Joanna J. Wylde, Sara W. Alcorn, Greta M. Beckwith, Winnifred Bishop, Hattie L. Borden, Leah A. Boylan, Olive C. Corkum, Prudence Dickie, Gertrude H. Dow, Margaret Eaton, Laura J. Elliot, Ruth Fox, Martha S. Fox, Stella E. Grant, Estella Hall, Ella C. Harvey, Meta A. Harris, Mary H. Henderson, Elizabeth Kilcup, Edith M. Lamont, Nancy C. Levy, Addie G. Mapplebeck, Elizabeth Millett, Sadie G. Morse, Dorothy M. Morse, Dorothy M. Morse, Kate O. Meyers, Bertha Mac Neill, Ethel Mac Quarrie, Gladys Neary, Stella B. Nichols, Lola	99 102 102 102 102 102 102 102 102 102 102	58 23 60 00 45 00	Algee, Alma Bent, Lottie A. Beach, Sarah Bishop, Hilda M. Bowes, Innetia Boylan, Evelyn M. Crossland, Rhena B. Etter, Coralline E. Eaton, Muriel L. Forsythe, Donald Forsythe, William H. Trail, Elizabeth Kaiser, Mary B. Lamb, Maie J. Layton, Cecilia Lyons, Mabel Morton, Mabel K. Mullett, Ruth V. McLellan, Dorothy Porter, Grace Reid, Annie Sanford, Ida M. Vaughan, Cora A. Veinott, Laura M. Wamboldt, Isabella Webster, Lavina Woolard, Flora Assistant.	91 87 102 88 102 91 99 83 102 102 86 96 102 90 102 97 91 102 90 102 102	361 09 361 013 361 019 361
Wright, Joanna J. Wylde, Sara W. Alcorn, Greta M. Beckwith, Winnifred Bishop, Hattie L. Borden, Leah A. Boylan, Olive C. Corkum, Prudence Dickie, Gertrude H. Dow, Margaret Eaton, Laura J. Elliot, Ruth Fox, Martha S. Fox, Stella E. Grant, Estella Hall, Ella C. Harvey, Meta A. Harris, Mary H. Henderson, Elizabeth Kilcup, Edith M. Lamont, Nancy C. Levy, Addie G. Mapplebeck, Laura Mapplebeck, Elizabeth Millett, Sadie G. Morse, Dorothy M. Morse, Kate O. Meyers, Bertha Mac Neill, Ethel MacQuarrie, Gladys Neary, Stella B.	99 102 102 102 102 102 102 102 102 102 102	58 23 60 00 45 00	Algee, Alma Bent, Lottie A. Beach, Sarah Bishop, Hilda M. Bowes, Innetia Boylan, Evelyn M. Crossland, Rhena B. Etter, Coralline E. Eaton, Muriel L. Forsythe, Donald Forsythe, William H. Trail, Elizabeth Kaiser, Mary B. Lamb, Maie J. Layton, Cecilia Lyons, Mabel Morton, Mabel K. Mullett, Ruth V. McLellan, Dorothy Porter, Grace Reid, Annie Sanford, Ida M. Vaughan, Cora A. Veinott, Laura M. Wamboldt, Isabella Webster, Lavina Woolard, Flora	91 87 102 88 102 91 99 83 102 102 86 90 102 86 91 102 97 91 102 97 91 102 90 102	361 091 360 098 361 61 36 001 998 361 61 36 001 998 361 61 36 008 361 361 361 361 361 361 361 361 361 361

Annuitan	its.	Hebb, Leda	102 45 00
Banks, Alonzo		Himmelman, Carrie	101 44 56
Clair Lando	60 00	Hirtle, Mary E.	102 45 00
Craig, James C. Challen, Minnie V.	45 00	Holder, Clara	102 45 00
winnie V.	45 00	Jewers, Beatrice	102 45 00
		Kaulback, Louise	102 45 00
		Langille, Edith	102 45 00
LUNENBU	n.c	Lohnes, Stella	102 45 00
	KG.	Mader, Ira	90 39 69
McKittrick, B.	100 105 00	Mader, Jessie	90 39 69
Mack, R. T.	102 105 00	Manning, Myra	102 45 00
Hewitt, M. C.	$\begin{array}{ccccc} 102 & 105 & 00 \\ 102 & 90 & 00 \end{array}$	Mason, Jessie	102 45 00
Hirtle, A. G.		Rafuse, Lavinia	95 41 90
Bishop, Annetta Bissett, Clarence	$\begin{array}{ccccc} 102 & 90 & 00 \\ 102 & 75 & 00 \end{array}$	Romkey, Mary C.	102 45 00
Bissett, Clarence Bruhm, Mariel	102 75 00	Silver, Florence	102 45 00
Bruhm, Muriel	102 75 00	Slauenwhite, Muriel	98 43 22
Backman, May Bailly Hamb	102 60 00	Sperry, Rhoda	102 45 00
Bailly, Hazel Baizley All	102 60 00	Tobin, Ellen M.	102 45 00
Baizley, Abby	102 60 00	Tobin, Mary E.	102 45 00
orkum, Mildred	102 60 00	Veinotte, Genevieve	102 45 00
reighton, Lucy	102 60 00	Warner, Emma L.	100 44 11
rnst, Oressa ord, Gortan	102 60 00	Wentzell, Ida H.	102 45 00
ord, Gertrude	101 59 41	Wharton, Zella	101 44 56
layward, Jennie lebb, Bessie C	102 60 00	Zwicker, Helen	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
lebb, Bessie C.	102 60 00	Zwicker, Rhoda	102 45 00
leckman, Katie	102 60 00	Curran, Flora Smith, Eva M.	$36\frac{1}{2}$ 16 09
lirtle, Bertha lirtle, Possi	20 11 76	Albrecht, John	$102^{\circ} 30 00$
lirtle, Bertha Saulback, Dearl	102 60 00	Allen, Christie	102 30 00
Yaulback, Ruby Yeddy, Paorl	102 60 00	Awalt, Florence	101 29 71
Seddy, Pearl Snickle, Factor	102 60 00	Backman, Hilda	102 30 00
anta Vatnicen	24 14 12	Baker, Cora	102 30 00
'Ullon 65 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	102 60 00	Bell, Beulah	102 30 00
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dafadinnie	102 60 00	Berringer, Mabel	102 30 00
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him adah	78 45 88	Bushen, Oda	100 29 41
eina d'annue	101 59 41	Chesley, Isabel	102 30 00
Ain. 1867 Auce	102 60 00	Conrad, Cora	20 5 88
val. / "unine	102 60 00	Conrad, Rhoda	102 30 00
Vent 7 Mullel	102 60 00	Crookes, Gladys	102 30 00
VAn4	$102 - 60 \cdot 00$	Crouse, Georgina	101 29 71
	102 60 00	Deal, Glengyle	102 30 00
	102 60 00	Drew, Nellie	102 30 00
An. Sig I)	102 60 00	DeMond, Mary	102 30 00
Ultra, Metell	102 60 00	Eisenhauer, Harris	102 30 00
renburg, Ethel	102 60 00	Ernst, Amynella	102 30 00
	102 45 00	Ernst, Winifred	97 28 53
	102 45 00	Fancy, Elizabeth	$101\frac{1}{2}$ 29 86
	89 39 24	Fancy, Jessie	102 30 00
hivar, Minnia	102 45 00	Feener, Letitia	102 30 00
owers, Mary olivar, Minnie hristopher, Winifred onrad, Lottie	42 18 52	Fleete, Lois	73 21 47
onrad, Lottie	102 45 00	Frank, Flossie	101 29 71
wford Flores	102 45 00	Freeman, Clara	102 30 00
	102 45 00	Hamm, Marguerite	102 30 00
rouse, Lettie	$79\frac{1}{2}$ 35 06	Hebb, Evelyn	$96\frac{1}{2}$ 28 39
rouse, Naomi	102 45 00	Heckman, Belle	102 30 00
rouse, Lettie rouse, Naomi rouse, Viola auphinee, Trans	102 45 00	Heisler, Nellie	102 30 00
eal Tessis	77 33 96	Hiltz, Ella M.	102 30 00
eal, Bernice	102 45 00	Hirtle, Gladys	102 30 00
hitter, Olive	102 45 00	Hirtle, Isabel	102 30 00
7410m J . ******	102 45 00	Hyson, Grace	102 30 00
		Johnson Marr	102 30 00
ndeman. Hild	100 44 11	Johnson, Mary	
ndeman. Hild	102 45 00	Kaulback, Grace	93 27 36
outver, Olive Jurland, Gladys reeman, Hilda odfrey, Bessie lawksworth, Eva		Kaulback, Grace Kaulback, Marjorie Keddy, Violet	

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Lane, Florence	$97\frac{1}{2}$		00	Boylan, Frances	$\frac{102}{102}$	45	00
Meisner, Bertha	$\frac{102}{57}$		76	Conrad, Grace Hirtle, Nora	102	45	00
Morash, Emma Morash, Mona	102		00	McGinty, Katherine	102	45	-00
Morgan, Percy	100		41	Webber, Mamie	98	43	22
Nauss, Mamie	82		$1\overline{2}$	Young, Amy	102	45	00
Oxner, Blanche	$10\overline{2}$		$\overline{00}$	Bezanson, Annie	99	29	12
Parks, Evelyn	97		53	Collicutt, Mildred	-92	27	06
Pinneo, Thekla	102		00	Corkum, Ethel	102	30	00
Rafuse, Hazel	102		00	Corkum, Harold	102	30	00
Rafuse, Myrtle	99		12	Corkum, Lola	102	30	00
Richards, Laura	102		00	Hiltz, Wilfred	102	90	00
Risser, Maud	102		00	Kaulback, Lily	102	- 30	00
Rodenhiser, Hilda	52		29	Millett, Kathleen	$\frac{102}{102}$	- 30	Oυ
Rodendiser, Maysie	78		94	Mosher, Carrie	102	20	00
Sarty, Eva L.	$\frac{102}{102}$		00 00	MacInnis, Muriel Publicover, Evelyn	78	- 92	94
Sarty, Gordon	$\frac{102}{72}$		17	Rafuse, Maria	102	- 90	UU
Slauenwhite, Ethel Smith, Ada A.	$10\overline{2}$		ôò	Skerry, Phyllis	101	29	71
Spindler, Helen	102		00	Zinck, Russell	102	30	00
Veino, Lida	97		53	Zinck, Sadie	102	30	00
Wessell, Laura	102		00	,			
Westhaver, Muriel	102	30	00	Poor Sections			
Whynot, Katie	102	30	00			34	47
Winters, Hazel	102		00	Bishop, Helen	90	33	$\tilde{7}1$
Wolfe, Blanche	102		00	DeMone, Mary	88	- 90	b4
Zink, Edna	97		53	Jollymore, Leila	80	- 96	χυ
Zinck, Howard	102		00	Keddy, Olive	$\begin{array}{c} 70 \\ 82 \end{array}$	1	4.1
Zwicker, Gladys	$\frac{102}{57}$		$\frac{00}{76}$	Lonergan, Leila	39	1/	94
Schnare, Mabel	91	10	10	Robinson, Emma Vaughan, Hilda	2ŏ	7	66
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DeLong, Ruey	82		41	DICTOLLEAST			
Ernst, Effie	102	39	07	PICTOU EAST.			οΛ
Ernst, Effie Ernst, Flora	$\begin{array}{c} 102 \\ 100 \end{array}$	$\frac{39}{38}$	$\frac{07}{30}$		102	105	00
Ernst, Effie Ernst, Flora Hall, Leila	$102 \\ 100 \\ 102$	$\frac{39}{38}$	$\begin{array}{c} 07 \\ 30 \\ 07 \end{array}$	MacLeod, John T.	102 97	71	.,,
Ernst, Effie Ernst, Flora Hall, Leila Himmelman, Daisy	102 100 102 75	39 38 39 28	$\begin{array}{c} 07 \\ 30 \\ 07 \\ 72 \end{array}$	MacLeod, John T. Baillie, A. G.	$\begin{array}{c} 97 \\ 101 \end{array}$	71	$\frac{32}{26}$
Ernst, Effie Ernst, Flora Hall, Leila Himmelman, Daisy Lacy, Hattie	$102 \\ 100 \\ 102$	39 38 39 28 38	$07 \\ 30 \\ 07$	MacLeod, John T. Baillie, A. G. Fraser, Jean	$97 \\ 101 \\ 102$	71 74 75	26 00 00
Ernst, Effie Ernst, Flora Hall, Leila Himmelman, Daisy Lacy, Hattie Mailman, Ruby	102 100 102 75 101	39 38 39 28 38 39 38	07 30 07 72 70 07 70	MacLeod, John T. Baillie, A. G.	97 101 102 102	71 74 75 75	26 00 00 00
Ernst, Effie Ernst, Flora Hall, Leila Himmelman, Daisy Lacy, Hattie Mailman, Ruby Naas, Mildred	102 100 102 75 101 102 101 102	39 38 39 28 38 39 38	07 30 07 72 70 07 70	MacLeod, John T. Baillie, A. G. Fraser, Jean Graham, Janet G. Larsen, Lida MacDonald, Eva M.	97 101 102 102 102	71 74 75 75 75	26 00 00 00 41
Ernst, Effie Ernst, Flora Hall, Leila Himmelman, Daisy Lacy, Hattie Mailman, Ruby	102 100 102 75 101 102 101 102 83	39 38 39 28 38 39 38 39 31	07 30 07 72 70 07 70 07 79	MacLeod, John T. Baillie, A. G. Fraser, Jean Graham, Janet G. Larsen, Lida MacDonald, Eva M. MacLean, C. Myrtle	97 101 102 102 102 101	71 74 75 75 75 59	26 00 00 00 41 00
Ernst, Effie Ernst, Flora Hall, Leila Himmelman, Daisy Lacy, Hattie Mailman, Ruby Naas, Mildred Rafuse, Annie Sarty, Mabel Seamone, Effie	102 100 102 75 101 102 101 102 83 83	39 38 39 28 38 39 38 39 31	07 30 07 72 70 07 70 07 79 79	MacLeod, John T. Baillie, A. G. Fraser, Jean Graham, Janet G. Larsen, Lida MacDonald, Eva M. MacLean, C. Myrtle MacLellan, Ruth G.	97 101 102 102 102 101 102	71 74 75 75 75 59 60	26 00 00 00 41 00 31
Ernst, Effie Ernst, Flora Hall, Leila Himmelman, Daisy Lacy, Hattie Mailman, Ruby Naas, Mildred Rafuse, Annie Sarty, Mabel Seamone, Effie Whynot, Luella	102 100 102 75 101 102 101 102 83 83 83	39 38 39 28 39 38 39 31 31	07 30 07 72 70 07 70 07 79 79	MacLeod, John T. Baillie, A. G. Fraser, Jean Graham, Janet G. Larsen, Lida MacDonald, Eva M. MacLean, C. Myrtle MacLellan, Ruth G. MacQueen, John P.	97 101 102 102 102 101 102 97	71 74 75 75 75 60 71	26 00 00 41 00 31 67
Ernst, Effie Ernst, Flora Hall, Leila Himmelman, Daisy Lacy, Hattie Mailman, Ruby Naas, Mildred Rafuse, Annie Sarty, Mabel Seamone, Effie	102 100 102 75 101 102 101 102 83 83	39 38 39 28 39 38 39 31 31	07 30 07 72 70 07 70 07 79 79	MacLeod, John T. Baillie, A. G. Fraser, Jean Graham, Janet G. Larsen, Lida MacDonald, Eva M. MacLean, C. Myrtle MacLellan, Ruth G. MacQueen, John P. Phalen, Dorothy	97 101 102 102 102 101 102 97	71 74 75 75 75 60 71 35	26 00 00 41 00 31 67
Ernst, Effie Ernst, Flora Hall, Leila Himmelman, Daisy Lacy, Hattie Mailman, Ruby Naas, Mildred Rafuse, Annie Sarty, Mabel Seamone, Effie Whynot, Luella Zinck, Olive	102 100 102 75 101 102 101 102 83 83 83	39 38 39 28 39 38 39 31 31	07 30 07 72 70 07 70 07 79 79	MacLeod, John T. Baillie, A. G. Fraser, Jean Graham, Janet G. Larsen, Lida MacDonald, Eva M. MacLean, C. Myrtle MacLelan, Ruth G. MacQueen, John P. Phalen, Dorothy Porter, Mina	97 101 102 102 102 101 102 97	71 74 75 75 75 75 60 71 75 75	26 00 00 41 00 31 67 00
Ernst, Effie Ernst, Flora Hall, Leila Himmelman, Daisy Lacy, Hattie Mailman, Ruby Naas, Mildred Rafuse, Annie Sarty, Mabel Seamone, Effie Whynot, Luella	102 100 102 75 101 102 101 102 83 83 83	39 38 39 28 39 38 39 31 31	07 30 07 72 70 07 70 07 79 79	MacLeod, John T. Baillie, A. G. Fraser, Jean Graham, Janet G. Larsen, Lida MacDonald, Eva M. MacLean, C. Myrtle MacLellan, Ruth G. MacQueen, John P. Phalen, Dorothy Porter, Mina Robertson, Edna	97 101 102 102 102 101 102 97 5 102 102 102	74 75 75 75 75 75 76 76 76 76 76 76 76 76 76 76 76 76 76	26 00 00 41 00 31 67 00 00 00
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Ernst, Effie Ernst, Flora Hall, Leila Himmelman, Daisy Lacy, Hattie Mailman, Ruby Naas, Mildred Rafuse, Annie Sarty, Mabel Seamone, Effie Whynot, Luella Zinck, Olive Annuitants. Risser, Daniel	102 100 102 75 101 102 101 102 83 83 83	39 38 39 28 38 39 31 31 31 39 60 30	07 30 07 72 70 07 79 79 79 07	MacLeod, John T. Baillie, A. G. Fraser, Jean Graham, Janet G. Larsen, Lida MacDonald, Eva M. MacLean, C. Myrtle MacLellan, Ruth G. MacQueen, John P. Phalen, Dorothy Porter, Mina Robertson, Edna	97 101 102 102 101 102 97 5 102 102 102 102	71 74 75 75 75 60 75 60 60 60	26 00 00 41 00 31 60 00 00 00 00 00 00 00 00 00 00 00 00
Ernst, Effie Ernst, Flora Hall, Leila Himmelman, Daisy Lacy, Hattie Mailman, Ruby Naas, Mildred Rafuse, Annie Sarty, Mabel Seamone, Effie Whynot, Luella Zinck, Olive Annuitants.	102 100 102 75 101 102 101 102 83 83 83	39 38 39 28 38 39 31 31 31 39 60 30	07 30 07 72 70 07 79 79 79 07	MacLeod, John T. Baillie, A. G. Fraser, Jean Graham, Janet G. Larsen, Lida MacDonald, Eva M. MacLean, C. Myrtle MacLellan, Ruth G. MacQueen, John P. Phalen, Dorothy Porter, Mina Robertson, Edna Roy, Lida Sinclair, Nellic Balcome, Lewis S. Bannerman, Margaret	97 101 102 102 101 102 97 5 102 102 102 102	71 74 75 75 75 75 60 75 60 60 60 60	26 00 00 41 00 31 67 00 00 00 00 00 00 00
Ernst, Effie Ernst, Flora Hall, Leila Himmelman, Daisy Lacy, Hattie Mailman, Ruby Naas, Mildred Rafuse, Annie Sarty, Mabel Seamone, Effie Whynot, Luella Zinck, Olive Annuitants. Risser, Daniel Heckman, A. D.	102 100 102 75 101 102 101 102 83 83 83	39 38 39 28 38 39 31 31 31 39 60 30	07 30 07 72 70 07 79 79 79 07	MacLeod, John T. Baillie, A. G. Fraser, Jean Graham, Janet G. Larsen, Lida MacDonald, Eva M. MacLean, C. Myrtle MacLelan, Ruth G. MacQueen, John P. Phalen, Dorothy Porter, Mina Robertson, Edna Roy, Lida Sinclair, Nellie Balcome, Lewis S. Bannerman, Margaret Boylee, Susie	97 101 102 102 102 101 102 97 5 102 102 102 102 102	71 74 75 75 75 75 75 75 75 60 60 60 60 60	260 000 410 31 67 000 000 000 000 000 000 000 000 000
Ernst, Effie Ernst, Flora Hall, Leila Himmelman, Daisy Lacy, Hattie Mailman, Ruby Naas, Mildred Rafuse, Annie Sarty, Mabel Seamone, Effie Whynot, Luella Zinck, Olive Annuitants. Risser, Daniel Heckman, A. D.	102 100 102 75 101 102 101 102 83 83 83	39 38 39 28 38 39 31 31 31 39 60 30	07 30 07 72 70 07 79 79 79 07	MacLeod, John T. Baillie, A. G. Fraser, Jean Graham, Janet G. Larsen, Lida MacDonald, Eva M. MacLean, C. Myrtle MacLellan, Ruth G. MacQueen, John P. Phalen, Dorothy Porter, Mina Robertson, Edna Roy, Lida Sinclair, Nellic Balcome, Lewis S. Bannerman, Margaret Boylee, Susie Bradshaw, Janet M.	97 101 102 102 101 102 97 5 102 102 102 102 102 102	7147557596713760660666666666666666666666666666666	26 00 00 41 00 31 60 00 00 00 00 00 00 00 00 00 00 00 00
Ernst, Effie Ernst, Flora Hall, Leila Himmelman, Daisy Lacy, Hattie Mailman, Ruby Naas, Mildred Rafuse, Annie Sarty, Mabel Seamone, Effie Whynot, Luella Zinck, Olive Annuitants. Risser, Daniel Heckman, A. D. Kaulback, Laura	102 100 102 75 101 102 101 102 83 83 83	39 38 39 28 38 39 31 31 31 39 60 30	07 30 07 72 70 07 79 79 79 07	MacLeod, John T. Baillie, A. G. Fraser, Jean Graham, Janet G. Larsen, Lida MacDonald, Eva M. MacLean, C. Myrtle MacLellan, Ruth G. MacQueen, John P. Phalen, Dorothy Porter, Mina Robertson, Edna Roy, Lida Sinclair, Nellie Balcome, Lewis S. Bannerman, Margaret Boylee, Susie Bradshaw, Janet M. Cayanagh, Isabel	97 101 102 102 102 101 102 97 5 102 102 102 102 102	714 75 75 75 75 75 75 75 75 75 75 75 75 75	26 00 00 41 00 31 60 00 00 00 00 00 00 00 00 00 00 00 00
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Ernst, Effie Ernst, Flora Hall, Leila Himmelman, Daisy Lacy, Hattie Mailman, Ruby Naas, Mildred Rafuse, Annie Sarty, Mabel Seamone, Effie Whynot, Luella Zinck, Olive Annuitants. Risser, Daniel Heckman, A. D. Kaulback, Laura CHESTER. Acker, Hattie Eldridge, Jennie Hartley, Ruby	102 100 102 75 101 102 101 102 83 83 83 102	39 38 39 28 39 38 39 31 31 31 30 60 57 57	07 30 07 72 70 07 77 70 07 79 79 07	MacLeod, John T. Baillie, A. G. Fraser, Jean Graham, Janet G. Larsen, Lida MacDonald, Eva M. MacLean, C. Myrtle MacLellan, Ruth G. MacQueen, John P. Phalen, Dorothy Porter, Mina Robertson, Edna Roy, Lida Sinclair, Nellie Balcome, Lewis S. Bannerman, Margaret Boylee, Susie Bradshaw, Janet M. Cavanagh, Isabel Calder, Elsie Davis, May T. Douglas, Irene	97 101 102 102 102 101 101 102 102 102 102	71 74 75 75 75 75 75 75 75 75 75 75 75 75 75	26000041031670000000000000000000000000000000000
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Ernst, Effie Ernst, Flora Hall, Leila Himmelman, Daisy Lacy, Hattie Mailman, Ruby Naas, Mildred Rafuse, Annie Sarty, Mabel Seamone, Effie Whynot, Luella Zinck, Olive Annuitants. Risser, Daniel Heckman, A. D. Kaulback, Laura CHESTER. Acker, Hattie Eldridge, Jennie Hartley, Ruby Langille, Ella Mills, Mary MacMinn, Georgie	102 100 102 75 101 102 101 102 83 83 83 102	39 38 39 28 39 31 31 31 39 60 30 57 57 57	07 30 07 72 70 07 77 9 79 07 79 07 00 00 65 65 65	MacLeod, John T. Baillie, A. G. Fraser, Jean Graham, Janet G. Larsen, Lida MacDonald, Eva M. MacLean, C. Myrtle MacLellan, Ruth G. MacQueen, John P. Phalen, Dorothy Porter, Mina Robertson, Edna Roy, Lida Sinclair, Nellie Balcome, Lewis S. Bannerman, Margaret Boylee, Susie Bradshaw, Janet M. Cavanagh, Isabel Calder, Elsie Davis, May T. Douglas, Irene Fogo, J. G. Fraser, Alice Freeman, Dorothy Grant, Clara Gunn, Mary A.	97 101 102 102 102 101 102 102 102 102 102	71 74 75 75 75 60 76 60 60 60 60 60 60 60 60 60 60 60 60 60	260 000 410 31 670 000 000 000 880 000 000 700 410 000 000 000 000 000 000 000 000 0
Ernst, Effie Ernst, Flora Hall, Leila Himmelman, Daisy Lacy, Hattie Mailman, Ruby Naas, Mildred Rafuse, Annie Sarty, Mabel Seamone, Effie Whynot, Luella Zinck, Olive Annuitants. Risser, Daniel Heckman, A. D. Kaulback, Laura CHESTER. Acker, Hattie Eldridge, Jennie Hartley, Ruby Langille, Ella Mills, Mary MacMinn, Georgie Naas, Blanche	102 100 102 75 101 102 101 102 83 83 83 102	39 38 39 28 38 39 31 31 39 60 30 60 57 67 67 57 67	07 30 07 72 70 07 77 79 79 07 79 00 00 00 65 65 65 65 65	MacLeod, John T. Baillie, A. G. Fraser, Jean Graham, Janet G. Larsen, Lida MacDonald, Eva M. MacLean, C. Myrtle MacLellan, Ruth G. MacQueen, John P. Phalen, Dorothy Porter, Mina Robertson, Edna Roy, Lida Sinclair, Nellie Balcome, Lewis S. Bannerman, Margaret Boylee, Susie Bradshaw, Janet M. Cavanagh, Isabel Calder, Elsie Davis, May T. Douglas, Irene Fogo, J. G. Fraser, Alice Freeman, Dorothy Grant, Clara Gunn, Mary A. Hadley, Agatha	97 101 102 102 101 102 97 5 102 102 102 102 102 102 102 102 102 102	71 745 755 759 760 760 760 760 760 760 760 760 760 760	260 000 410 317 000 000 000 800 000 760 410 000 000 000 000 000 000 000 000 00
Ernst, Effie Ernst, Flora Hall, Leila Himmelman, Daisy Lacy, Hattie Mailman, Ruby Naas, Mildred Rafuse, Annie Sarty, Mabel Seamone, Effie Whynot, Luella Zinck, Olive Annuitants. Risser, Daniel Heckman, A. D. Kaulback, Laura CHESTER. Acker, Hattie Eldridge, Jennie Hartley, Ruby Langille, Ella Mills, Mary MacMinn, Georgie Naas, Blanche Quinlan, Clara	102 100 102 75 101 102 101 102 83 83 102 102 98 98 98 98 99	39 38 39 28 39 38 39 31 31 39 60 57 57 60 57 57 57 58	07 30 07 72 70 07 77 07 79 79 07 00 00 00 00 00 65 65 65 65 23	MacLeod, John T. Baillie, A. G. Fraser, Jean Graham, Janet G. Larsen, Lida MacDonald, Eva M. MacLean, C. Myrtle MacLellan, Ruth G. MacQueen, John P. Phalen, Dorothy Porter, Mina Robertson, Edna Roy, Lida Sinclair, Nellie Balcome, Lewis S. Bannerman, Margaret Boylee, Susie Bradshaw, Janet M. Cavanagh, Isabel Calder, Elsie Davis, May T. Douglas, Irene Fogo, J. G. Fraser, Alice Freeman, Dorothy Grant, Clara Gunn, Mary A. Hadley, Agatha Harris, Annie E.	97 101 102 102 101 102 102 102 102 102 102	71 745 755 759 760 760 760 760 760 760 760 760 760 760	260 000 410 31 670 000 000 000 880 000 000 700 410 000 000 000 000 000 000 000 000 0
Ernst, Effie Ernst, Flora Hall, Leila Himmelman, Daisy Lacy, Hattie Mailman, Ruby Naas, Mildred Rafuse, Annie Sarty, Mabel Seamone, Effie Whynot, Luella Zinck, Olive Annuitants. Risser, Daniel Heckman, A. D. Kaulback, Laura CHESTER. Acker, Hattie Eldridge, Jennie Hartley, Ruby Langille, Ella Mills, Mary MacMinn, Georgie Naas, Blanche	102 100 102 75 101 102 101 102 83 83 83 102	39 38 39 28 39 38 39 31 31 39 60 57 57 60 57 57 57 58	07 30 07 72 70 07 77 79 79 07 79 00 00 00 65 65 65 65 65	MacLeod, John T. Baillie, A. G. Fraser, Jean Graham, Janet G. Larsen, Lida MacDonald, Eva M. MacLean, C. Myrtle MacLellan, Ruth G. MacQueen, John P. Phalen, Dorothy Porter, Mina Robertson, Edna Roy, Lida Sinclair, Nellie Balcome, Lewis S. Bannerman, Margaret Boylee, Susie Bradshaw, Janet M. Cavanagh, Isabel Calder, Elsie Davis, May T. Douglas, Irene Fogo, J. G. Fraser, Alice Freeman, Dorothy Grant, Clara Gunn, Mary A. Hadley, Agatha	97 101 102 102 101 102 97 5 102 102 102 102 102 102 102 102 102 102	71 745 755 759 760 760 760 760 760 760 760 760 760 760	260 000 410 317 000 000 000 800 000 760 410 000 000 000 000 000 000 000 000 00

Lent, M. E.	10	1 50 41	/771		
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MacLean, Eva	10:		,	101	
	102		Control of the contro	102	
MacPherson, Eliza	101		Baillie, Catharine	102	
Murdoch, Stewart Oulton Mills	102		Butler, Katherine	81	
Oulton, Millage Philip B Mark	$\frac{102}{102}$		Campbell, Mary B.	76	22 35
Philip, B. Maude	102	34 71	Cameron, Muriel	102	
Prime, Daisy Ross, April	59	1 11 70	Chisholm, Bessie	101	
Ross, Annie L.	$\frac{20}{101}$		Crockett, Elsie	96	
Russell, Martha	102		Cameron, Hannah Fleming, Elizabeth	102	30 00
Smith, Margaret	102		gleming, Elizabeth	102	
Savage, Martha Thompson Div	$\frac{102}{102}$		Fraser, Jennie	97	28 53
Thompson, Elizabeth Walker, Jean R	102		Hanna, Viola	12	3 53
Walker, Jean R.	102	60 00	Higson, Chrystal	58	
Walker, Jennie	102	60 00	Kennedy, Sarah	101	
V ^{adden} , Olive	102	60 00	MacBean, Mary G.	101	
Walker, Jean R. Walker, Jennie Wadden, Olive Young, Nellie Ballantyne, Jean Chisholm, Mary Colquhoun, Cheistean	101	59 41	MacIntosh, Duncan	93	27 36
Chilantyne, lean	101	45 00	MacGillivray, D. J.	81	23 82
Chisholm, Mary	101	44 56	Macgregor, Minnie	101	29 71
Colquhoun, Christena Cruickshank Ruth	102	45 00	MacKenzie, Edna	102	30 00
Cruickshank, Ruth Creighton Margaret	49	$\frac{45}{21} \frac{60}{60}$	MacKay, Catharine	102	30 00
Creighton, Margaret Dunn, Catherine	101	44 56	MacLeod, Christena	101	29 71
Dunn, Catherine DeWolfe, Murici	$\frac{101}{102}$	45 00	MacLean, T. W.	102	30 00
	102	45 00	MacLean, Eva K.	102	30 00
Fraser, Constance Fraser, Catherine			MacNeil, Mary A.	101	29 71
Fraser, Constance Fraser, Catherine Caser, Mary	102 102 77	45 00	Mason, Annie M.	$\frac{102}{101}$	30 00
Fraser, Catherine Grant, Wary	77	33 96			29 71
Grant, Viola	102	45 00	Patterson, Hazel	102	30 00
Grant, Viola Grant, Etta Graham M	100	45 00	Swinehamer, Lila	102	30 00
Hamam, Margaret	102	$\frac{45}{45} \frac{00}{00}$	D C!		
Graham, Etta Graham, Margaret Harris, Mary M. Holmes, Marjorie Inglis, Alice	109	45 00	Poor Section	8.	
Inglines, Mariorie	102	45 00	Children No. Man C	163	00 -
Inglis, Alice Johnston	90	39 69	Chisholm, Mary C.	101	38 54
Reitl Relyn	98	$\frac{33}{43} \frac{03}{22}$	Cameron, Margaret Dewar, Margaret Fraser, Christine Fraser, Barbara Johnston, Hughena MacIntosh, Nellie MacKay, Ella MacLeod, Nellie	102	38 92
	102	45 00	Emana Chairtina	101	38 54
Win to "Mall 1 (10 A)	102	45 00	Frascr, Christine	02	31 30
	102	45 00	Loboston Hosbana	07	$\begin{array}{c} 37 \ 01 \\ 37 \ 01 \end{array}$
	102	45 00	Modernob Mollie	07	37 01
MacDonald, Ella MacDonald, Marie MacDonald, Katharine MacDonald, Rose M	102	45 00	MacKay, Ella	109	38 92
	102	45 00	MacLand Nullia	79	27 86
Mach onald, Rose M	102	45 00	MacLeod, Nellie	10	41 60
MacDonald, Rose M. MacDonald, Eva B. MacGillivray, Jane R. MacKer, Dolina	102	45 00	Special Poor Sec	*:a==	
MacIver, Dolina MacKnight, Jessia	101	44 56	Special Foot Sec	HOME.	
MacKnight, Jessie MacNeil, Eva R	102	45 00	MacDonald Puth	89	99 60
	92	40 57	MacMillan Lydia		33 96 21 96
MacNeil, Eva R. MacPherson, Annie C. MacQuarrie, Christena	101	44 56	MacDonald, Ruth MacMillan, Lydia Woods, Edna V.	$\frac{82}{97}$	31 30
MacO. Annie C	102	45 00	Woods, Edna V.	31	37 01
MacQuarrie, Christena Muir, Jennie Muir, Jennie	97	42 78	Consolidated Sec	· · · · · ·	
	101	44 56	Consolidated Sec	ction.	
M ₁ . Jennio	101	44 56	Bailey's Brook	61	80 00
	102	45 00	ранеу в ргоок	91	80 29
Munroe, Dolina Nichols, Eva	102	$\frac{45}{45} \frac{00}{00}$	A		
Nichol, Annie	102	45 00	Annuitants	•	
Nichols, Eva O'Connell C	100	44 11	Conveyen Issue		4E 600
O'Connell, Grace O'Neil, Annie H. Reeves, Margaret	101	44 56	Cameron, Jessie		45 00
Reeves, Margaret Ross, Annie I	81	35 72	Cruickshank, Jessie		45 00
Koss Margaret	97	42 78	Ross, Maggie		45 00
Ross, Annie J. Smiss Smiss Succession Succes	102	45 00			
Robertson, Susie Smith, Laura	102	45 00	The state of the s		
Stewart Laura	102	45 00 45 00	DICTOU WES	ar.	
	102	45 00	PICTOU WES	1.	
Sutherland, Annie Sylvester, Mary	102	44 56	Honey Lands P	100	90 00
OUT ATTACK	96	42 34	Henry, Jessie E.	102	80 29
nomper, Mary			MacDonald, J. C.	91	
	102	45 00	MacInnic D I		
Thompson, Ada	$\begin{array}{c} 102 \\ 54 \end{array}$	45 00 23 81	MacInnis, R. J. Maclellan, Robt	96 96	84 70 98 82

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MacLeod, R. H.	96	84 70	MacKenzie, Hazel	85	32	44
Archibald, Greta	96	56 47	Munro, Mary E.	102	38	92
Carter, Rena	86	$50 \ 58$	Rae, Mary E.	102	38	92
Dunn, Maude E.	102	60 00	Smith, Rose	102	38	92
Kinnie, Mary M.	101	59 41	•			
MacArthur, Olive	102	60 00	Annuitants.			
MacLeod, Dolenna	102	60 00			co	00
Mowat, Katharine	102	$60 \ 00$	Fraser, William		60 60	00
Murdoch, Louise M.	102	$60 \ 00$	Gollan, John		60	00
Murray, Williamina	90	52 94	MacArthur, Alex		60 60	00
Robertson, Sarah E.	101	$59 \ 41$	MacDonald, D. W.		00	
Bryenton, Katherine	96	42 34				
Cox, Jeannette	102	45 00				
Colter, Mary L.	102	45 00				
Fraser, Annie I.	100	44 11				
Fulton, Mildred	95	41 90	OUTENS SOUT	'LJ		
Hamblen, Jessie	100	44 11	QUEENS SOUT			•0
Haley, Mary	102	45 00	Mouton D E	102	105	00
Hamilton, Mary	102	45 00	Morton, R. F.	102		
Langille, Agnes MacDonald, Ada	$\frac{102}{102}$	$\begin{array}{c} 45 \ 00 \\ 45 \ 00 \end{array}$	Mullins, Jennie E. Wetmore, R. H.	$10\overline{2}$	75	UV
	102	$\frac{45}{45} \frac{00}{00}$	Collins, Pearl	102	60	00
MacGregor, Mary B.	97	$\frac{43}{42} \frac{60}{78}$	Dexter, Vera	102	60	00
MacInnes, Anna	102	45 00	Francia Nattie	102	60	00
MacKay, Jeannette	102	45 00	Freeman, Wilhelmina	102	60	00
Maclean, Adelaide	102	45 00	Harrington F B	102	60	00
MacLennan, Irene MacLellan, Evelyn	102	45 00	Harrington, Georgia	102	60	00
MacLeod, Bessie	$\tilde{102}$	45 00	Harrington, Georgia Harlow, Jennie	102	45	יסת.
McCara, Mary I	102	45 00	Keddy, Elva		ca	UV
McCunn, Isabel	101	44 56	Locke, Helen	102	ca	U
Moran, Sadie	102	45 00	Rand, Harrietta	102	20	w
Murray, Jennie	97	42 78	Smith, Daisy	102	40	ΩU
Murray, Elizabeth	102	45 00	Rell Marie	24	45	UV
Rose, Jessie F.	102	45 00		102	45	w
Rose, Bessie B.	102	45 00	Christie, Margaret Freeman, Allene	$\begin{array}{c} 102 \\ 102 \end{array}$	15	w
Sutherland, Laura	102	45 00		102	15	110
Talbot, Goldie E.	102	45 00	MacLeod, Ethel	102	45	110
Baillie, Anna	97	28 53	Parke, Nellie	102		
Blair, Margaret L.	87	25 59	Webber, Ola	102		
Brown, Bessie	102	30 00	Brooks, Jessie	100	29	41 89 00
Campbell, Minah	102	$\frac{30}{30} \frac{00}{00}$	Colp, Mildred	88		
	102	$\frac{30}{25} \frac{50}{59}$	Etherington, Bernice	102	0/1	110
Currie, Gladys	87 97	28 53	Gerhardt, Frances	102		
Clarke, Margaret	102	30 00	Godfrey, Marion Hanley, Esther	92		
	102	30 00	Hiltz, Helen	102		
Fraser, Joan Gray, Alice M.	101	29 71	Huskins, Opal	102		
Harris, Elizabeth	102	30 00	Lloyd, Irma	102		
MacGregor, Margaret	102	30 00	Meisner, Helen	102		
MacKay Alice	87	25 59	MacKinnon, Marjorie	$\frac{102}{99}$		
MacKenzie, Nina J.	102	30 00	Pierce, Margaret J.	102		
McKenzie, Jessie	102	30 - 00	Rafuse, Svbil	102		
McCara, Margaret	102	30 - 00	Smith, Laliah	102		
Munro, Margaret	92	27 - 06	Van Horne, Marion	102		
Redmond, Ada F.	101	29 71	Warman, Irene	96	28	24
Reid, Catharine	102	30 00	Vogler, Ethel B.	•		
Robertson, Irene	102	30 00				
Sutherland, Margaret	98	28 83	Poor Sections			
Tattrie, Jean	102	30 00	Poor Sections	_	QA.	51 04
Watt, Annabelle	83	24 41	Cauthant Hami	88		
Poor Sections			Kaulback, Hazel	84	40	00 68
roor Section			Pierce, Edith	102	25	68 59
Creighton, Willis	102	38 92	Ramey, Viola Wamboldt, Alice	91 78	30	59
Langille, Annie I.	102	38 92	Wharton, Winnetta	10	-	
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QUEENS NOR	TH.		Nelson, J. Scott	102	45 00
Dalton, Hilda Feindell, Hilda	100	00.00	Petitpas, Zenobia S.	102	45 00
Feindell, Hilda M.	102		Samson, Edna	102	45 00
Freeman, Winnie Raulback Birdio	101 100		Sister St. Hugues Walsh, Helen	$\begin{array}{c} 102 \\ 102 \end{array}$	45 00 45 00
Maulback, Birdie	81	47 64	Bagnell, Robert N.	102	30 00
Kaulback, Birdie Mosher, Hilda Cook Lul	102	60 00	Bissett, Hazel	20	5 88
Gora, Lulu	102	45 00	Boutin, Irene H.	102	30 00
Kelly C. Clyda	102	45 00	Boyd, Florence C.	100	29 41
Patterson Vecilia	102	45 00	Cameron, Henrietta J.	101	29 71
Canning Monage	101	44 56	Campbell, Catharine	100	1 17
Crooker, Charlotto	101	$\begin{array}{ccc} 28 & 53 \\ 29 & 71 \end{array}$	Campbell, Alexander	$\begin{array}{c} 100 \\ 102 \end{array}$	29 41 30 00
Eineshire. Gladys	102	30 00	Daigle, Joseph DeRoche, Gertrude	69	20 29
Jours, Murray	102	30 00	Doucet, Alvena	102	30 00
Nage, Lily	83	24 41	Embree, Viola	102	30 00
Maulback, Birdie Mosher, Hilda Cook, Lulu Germain, Clyda Kelly, Cecilia Patterson, Lulu Canning, Margaret Crooker, Charlotte Dukeshire, Gladys Fitch, Murray Joudrey, Lily Naas, Louisa M.	92	27 - 06	LeBlanc, Marie E.	100	29 41
D 0 1			Lavandier, Mary I.	102	30 00
Poor Section	8.		MacInnis, Mamie C.	102	30 00
Armstrong, Olive	86	33 72	McKinnon, Catharine	$\begin{array}{c} 67 \\ 91 \end{array}$	19 70 26 77
	109	40 00	Maclachlan, Annie M. Martel, Mary C.	102	30 00
Cooper, Elizabeth Cooper, Elizabeth Gillmore, Ada Hiltz, Beatrice Martin, Violet	102	40 00	Manger Agree I	102	30 00
Hiltore, Ada	88	34 51	Poirier, Jeffrey H.	100	29 41
Martin Beatrice	102	40 00	Poirier, Annie	100	29 41
Violet	83	$32 \ 55$	Richard, Mary E.	102	30 00
			Rily. Ada	100	29 41
			Samson, Mary L.	$\begin{array}{c} 29 \\ 38 \end{array}$	8 52 11 17
RICHMOND	,		Shannon, Mary M. Shannon, Mary M.	102	30 00
Wish	•		Sister M. St. Prudent	102	30 00
Withrow, Helena H. MacLean, Jessie B	102	105 00	Tate, Katharine A.	$-\tilde{9}\bar{7}$	28 53
	102	60 00	Campbell, Peter J.	91	26 77
	102	60 00	Doyle Johanna C	86	25 30
	102	60 00	Fougere, Hattie J.	102 98	30 00
MacKenzie Mom	102 102	60 00 60 00	Kemp, Donald LeBlanc, Jeffrey D. McKay, Tena J.	98	28 83
	102 102 102	60 00	McKay, Tena J.	86	5 00 25 30
Olston It will da	102	60 00	MacPherson, Barbara	102	30 00
Arckii W. Ste. Firmine	102	60 00	MacPherson, Barbara O'Toole, M. Alberta	102	30 00
Boudreau, Cecile I. Came, Hattie A.	102	45 00	Ross, Ella C.	91	26 77
onelli 29 Ceche i	102	45 00	White, Teresa	87	25 59
Burke, Hattie A. Cameron, Mary M.	102	45 00 45 00			
	102	45 00	Poor Section	8.	
Coffey, Catherine E. Currie, Julia B. Gili: Jessie	101 102	45 00	Compress Many M	83	32 55
Currie, Julia B. Gillis, Jessie	102	45 00	Cameron, Mary M. Kyte, Viola	102	40 00
	100	45 00	LeLacheur Ida I	102	40 00
Jackson H. Clara	101	44 56	MacKichan, Esther L.	88	34 51
Johnstone Etta E.	102	45 00	MacLeod, Margaret	102	40 00
Medic Alfreda M	102	45 00	MacNeill, Martha	101	39 61
Jackson, Henrietta E. Johnstone, Ethel Leslie Alfreda M McDaniel, Alice B. McDonald, Catharine M. McDonald, Mary Dora	102	$\frac{45}{41} \frac{00}{45}$	McPherson, Bertram	91	35 68
McDonald, Catharine M. McDonald, Mary Dora MacKenthern	84	37 04	Mauger, Tina	102	40 00
McDonald, Mary Dora	102	45 00	Ross, Lydia J.	102	40 00 39 61
Was sarate. Manage	100	44 11	MacKichan, Esther L. MacLeod, Margaret MacNeill, Martha McPherson, Bertram Mauger, Tina Ross, Lydia J. Sutherland, Don. A.	101	00 01
MacLeod Cavid	102	45 00			
Macleod, Maria Charine M.	75	33 08	Consolidated Sec	tions.	
Man Minnie A	102	45 00	Louisdale		30 00
Machell, Minnie V.	102	45 00	West Arichat		10 00
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Capstick, Grace	102	60 00	Nickerson, Beulah	$10\overline{2}$	60 00
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			Goodwin, Leda	100	75 00
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EDWARD JENNER AND VACCINATION.

By Professor D. FRASER HARRIS, M.D., D.Sc.

Dalhousie University, Halifax, N. S.

We are so exceedingly apt to take our blessings as a matter of course that at the present time a large number of us have quite forgotten, and some of us have never known, what a terrible disease smallpox is and from how much suffering national vaccination has saved us. But even many of us, who may not be included amongst those who know nothing of smallpox, do come within the group of those who know next to nothing of the life and work of Dr. Edward Jenner. A number of persons think he was Sir William Jenner, physician to Queen Victoria.

An infectious or communicable disease is one caused by the admission of some form of living matter into the body of a human being or of a lower animal. All diseases are clearly of communicable in the sense that they are due to the presence of living things. Indigestion, for instance, I can not communicate to my neighbor, however serious my dietetic indiscretions.

Now, while the actual microorganisms causing many of the infectious diseases have been discovered in these recent days thru the agency of the microscope—one of science's most valuable gifts to suffering humanity—a few diseases undoubtedly infectious have, even up to the present time, not had their nicroorganic causes discovered. Smallpox or variola is one of these. The term variola is from the Latin varus, a pimple.

"Chronicle" (1571), was given to this disease to distinguish it Gallicus which attained the proportions of an epidemic in Medical literature always refers to the Lues Venerea. The poor "pox" is the plural form of pock; the spelling "pox" is the correct form.

[&]quot;My son Gilbert was seized with the smallpox and was blinded by them for seven-

Smallpox is unquestionably a highly infectious or communicable disease, and, in the language of a past day, there is a virus or poison which can pass from the sick to the unaffected; when this transference occurs on a large scale we speak of an epidemic of smallpox. As Sir William Osler truly says, "It is not a little remarkable that in a disease, which is rightly regarded as the type of all infectious maladies, the specific virus still remains unknown." The same, however, is true of the common diseases of scarlatina, measles and chickenpox. Of some diseases, the virus is a bacillus or coccus, excessively minute fungi recognizable only under the microscope; but the bacteriologists are now beginning to speak of viruses so impalpable that they, unlike ordinary bacteria, can go thru the pores of unglazed porcelain filters, and are of ultramicroscopic dimensions. Some authorities conjecture the virus of variola belongs to the group of filter-passers. virus of smallpox, however, is very resistent and can be carried thru the air for considerable distances; it clings for long periods to clothes, books, furniture, etc.

I shall not now digress to give the clinical details of a case of smallpox; the eruption may be slight or it may be very extensive. It occurs in three forms, discrete, confluent and hemorrhagic. The most dangerous form of smallpox is the confluent, in which the face and arms particularly are covered with large pustular areas of a most disfiguring appearance.

The disease called chickenpox, or varicella, has no relationship to smallpox and does not protect from it, nor does smallpox protect from chickenpox.

History of Smallpox.

There seems very little doubt that the home of smallpox was somewhere on the continent of Africa, altho it is true that there are traditions pointing to its existence in Hindustan at least 1000 B. C. One Hindu account alludes to an ointment for removing the cicatrices of eruption. Africa has certainly for long been a prolific source of it: every time a fresh batch of slaves was brought over to the United States of America there was a fresh outbreak of smallpox.² It seems that the first outbreak in Europe in the Christian era was in the latter half of the sixth century, when it travelled from Arabia, visiting Egypt on the way. The earliest definite statements about it come from Arabia and are contained in an Arabic manuscript

²Osler thinks the pesta magna of Galen was smallpox; Marcus Aurelius died of it.

now in the University of Leyden, which refers to the years A. D. 570 and 571. There is a good deal of evidence that the Arabs introduced smallpox into Egypt at the sacking of Alexandria in A. D. 640. Pilgrims and merchants distributed it thruout Syria and Palestine and along the north of Africa; then, crossing the Mediterranean, they took it over to Italy. The Moors introduced it into Spain whence, via Portugal, Navarre, Languedoc and Guienne it was carried into western and northern Europe. The earliest physician to describe smallpox is Ahrun, a Christian Egyptian, who wrote in Greek. He lived in Alexandria from A. D. 610 to 641. The first independent treatise on the disease was by the famous Arabian physician, Rhazes, who wrote in Syriac in 920 A. D., but his book has been translated into both Greek and Latin. The first allusion to small-Pox in English is in an Anglo-Saxon manuscript of the early Part of the tenth century; the passage is interesting—"Against Pockes: very much shall one let blood and drink a bowl full of melted butter; if they [pustules] strike out, one should dig each with a thorn and then drop one-year alder drink in, then they will not be seen," this was evidently to prevent the pitting dreaded even at so early a date. Smallpox was first described in Germany in 1493, and appeared in Sweden first in 1578.

The contributions of Sydenham, the English Hippocrates, to the knowledge of smallpox, are classical.

Thruout the Middle Ages, owing to the very crowded and unsanitary state of the cities of Europe, smallpox was one of free for any length of time.³ Leprosy, influenza, smallpox, cholera, typhus fever and bubonic plague constituted the dreadful group. In most countries, including England, smallpox was practically endemic; an attack of it was accepted as thing inevitable, in children even more inevitable than whooping-cough, measles, mumps or chickenpox is regarded escape love or smallpox." In the eighteenth century so many woman who had no smallpox marks was straightway accounted the severe form in childhood or in later life.

"This England, This fortress, built by Nature for herself Against infection and the hand of war."

⁸England was by no means exempt, but it was not infection in the modern that Shakespeare meant when he wrote—

Now it is characteristic of a microorganic disease that a person who has recovered from an attack of it is immune from that disease for a longer or shorter time, in some cases for the This is, luckily, as true of smallpox as of remainder of life. any of the other acute infections. We do not now need to inquire into the theory of how this comes about; it is a wellrecognized natural phenomenon. The modern explanation is in terms of antigens and anti-bodies and is fast passing from the stage of pure biochemical hypothesis into that of concrete realization. Persons who have recovered from smallpox rarely take it a second time; the few who do, have it in a mild form. It follows, then, that if smallpox is purposely inoculated into a human being he will for a long time be resistant to the subsequent infection of smallpox. The fact of smallpox protecting from smallpox is by no means without analogy in other dis-Thus in Switzerland, in Africa, in Senegambia, it has been the custom for a long time, in order to protect the cattle from pleuro-pneumonia, to inoculate them with the fluid from the lung of an animal recently dead of pleuro-pneumonia. course since the time of Pasteur we have been quite familiar with the inoculation of attenuated virus to protect from the natural diseases in their fully virulent form, for instance, anthrax, rabies, plague and typhoid fever.

As it was then known to mankind from a very early period that a person could be protected from smallpox by being inoculated with it, inoculation grew up as a practise in widely distant parts of the globe. The purpose of intentional inocur lation was to go thru a mild attack of the disease in order to acquire protection from the much more serious natural form of the disease—to have had it so as not to have it. A very high antiquity is claimed for this smallpox inoculation, some even asserting that the earliest known Hindu physician (Dhan wantari)supposed to have lived about 1500 B. C., was the first to practise it. Bruce in his "Voyages to the Sources of the Nile" (1700) to "In the sources of the Nile" (1700) to "In the sources" of the sources of the Nile" (1700) to "In the sources" of the sources Nile" (1790) tells us that he found Nubian and Arabian women tom had been observed from time immemorial. Records of it indeed are found all over the world; in Ashantee, amongst the Arabs of North Africa, in Tripoli, Tunis and Algeria, in Senegal, in China, in Persia, in Thibet, in Bengal, in Siam, in Tartary and in Thi Tartary and in Turkey. In Siam the method of inoculation he very curious; material from a dried pustule is blown up into the nostrils; but in most other parts of the world the inoculation is by the ordinary method of superficial incision or what is called scarification. called scarification. By the latter part of the seventeenth century inoculation for smallpox was an established practise in several European countries. several European countries into which it had traveled by the

coasts of the Bosphorus, via Constantinople. In 1701 a medical man, Timoni, described the process as he saw it in Constanti-Material was taken from the pustules of a case on the twelfth or thirteenth day of the illness. As early as 1673 the practise was a common one in Denmark, Bartholinus tells us. In France inoculation had been widely practised; on June 18, 1774, the young king Louis XVI., was inoculated for smallpox, and the fashionable ladies of the day wore in their hair a miniature rising sun and olive tree entwined by a serpent supporting a club, the "pouf a l'inoculation" of Mademoiselle Rose Bertin, the court milliner to Marie Antoinette. In Germany inoculation was in vogue all thru the seventeenth century, as also in Holland, Switzerland, Italy and Circassia. In England the well-known Dr. Mead, honored, by the way, with a grave in Westminster Abbey, was a firm believer in inoculation, as was also Dr. Dimsdale, who was sent for by the Empress Catherine II. to introduce it into Russia. Dr. Dimsdale inoculated a number of persons in Petrograd, and finally the Grand Duke and the Empress herself. The lymph he took from the arm of a child ill of natural smallpox. For his services to the Russian court Dr. Dimsdale was made a Baron of the Russian Empire, a councillor of state and physician to the Empress. He was presented with the sum of £1,000 and voted an annuity of £500 a year. At the request of Catherine, Dr. Dimsdale went to Moscow, where thousands were clamoring for inoculation. The mortality from smallpox in Russia seems to have been still higher than in the rest of Europe. annual average death rate on the Continent at the end of the eighteenth century was 210 per 1,000 deaths from all causes, while in Russia in one year two million persons perished from smallpox alone. In England in 1796, the deaths from smallpox were 18.5 per cent. of deaths from all causes.

A great impetus was given to inoculation in England by ambassador to Turkey, Edward Wortley Montagu, and a letter of the Duke of Kingston. In 1717 Lady Mary wrote process and promised to introduce it to the notice of the English physicians. So convinced was Lady Mary of the safety of smallpox inoculation and its efficacy in preserving from subsequent smallpox, that in March, 1717, she had her little boy the presence of Dr. Maitland, surgeon to the embassy. In offered a full pardon if they would undergo inoculation. Six from agreed to this and none of them suffered at all severely from the inoculated smallpox. Towards the close of the same

year two children of the Princess of Wales were successfully inoculated; and in 1746 an Inoculation Hospital was actually opened in London, but not without much opposition. As early as 1721 the Rev. Cotton Mather, of Boston (U. S. A.) introduced inoculation to the notice of the American physicians, and in 1722 Dr. Boylston, of Brooklyn, inoculated 247 persons, of whom about 2 per cent. died of the acquired smallpox as compared with 14 per cent. of deaths amongst 6,000 uninoculated persons who caught the natural smallpox. There was, however, great popular opposition to the practise of inoculation, and Dr. Boylston on one occasion was nearly lynched.

While successful inoculation undoubtedly protected the person from smallpox, sometimes the inoculated form of the disease was virulent, and certainly all cases of inoculated variola were as infectious as the natural variety. Inoculated persons were therefore a danger to the community; and there is no doubt that such persons had occasionally introduced smallpox into towns which had been free from the natural disease. At the end of the eighteenth century, just about the time of Jenner's discovery, public opinion was strongly against the continuance of the practise of inoculation, and as natural smallpox had not at all abated its epidemic character, the times were ripe for "some new thing."

Now there is a disease of cows known as cowpox or vaccinia (from the Latin vacca, a cow) which is communicable to human beings. It is thought to be due to the same virus which in pigs is called swinepox and horses "grease." Jenner believed vaccinia to be the same pathological entity as human small-pox, modified, however, by its transmission thru the cow. For a long time this view was stoutly resisted, but it has now been accepted as probably representing the truth. The identity of vaccinia and "grease" is certainly much more doubtful.

To many of Jenner's contemporaries the view that vaccinia had at one time been a disease of human beings seemed unlikely; but we are now in a far better position to admit its probability than were those of Jenner's time. We have since then learned that man shares many diseases with the lower animals, tuberculosis, plague, rabies, diphtheria and pleuro-pneumonia, to mention only a few. We have also learned that certain lower animals, insects for instance, are intermediary hosts in the life-cycle of many minute parasites which cause serious diseases in the human being, amongst which malaria, yellow fever and the sleeping sickness are the most familiar.

It appears to have been understood before Jenner's time that persons who had acquired cowpox by handling cattle,

but especially by milking cows, were immune from smallpox. In the reign of Charles II. it is well known that the court beauties envied the dairy-maids because having had cowpox, they could not take smallpox which all women so dreaded. Dr. Corlett tells us that the Duchess of Cleveland, one of the King's mistresses, on being told that she might lose her place in the royal favor if she were disfigured by smallpox, replied that she had nothing to fear as she had had cowpox. In 1769 a German, Bose, wrote on the subject of cowpox protecting from smallpox. In the year 1774 a cattle dealer, Benjamin Jesty, at Yetminster, in Dorset, inoculated his wife and three children with cowpox. None of them ever took smallpox during the rest of their lives altho frequently exposed to its infection. Jesty died in 1816, and it is recorded on his tombstone that he was the first person who inoculated cowpox to protect from smallpox. Cowpox, or vaccinia, the infectious for cows, is not transmissible among human beings; in other words, as a disease of man it is not infectious. Edward Jenner, the Englishman of Berkeley in Gloucestershire, was the first person to think scientifically on the fact that cowpox protected from smallpox. John Hunter had said to him, "Jenner, don't think, try." Luckily, however, he did both. Thinking alone avails little. experimentation alone avails not much, but the one along with the other has removed mountains. Just as Newton thought scientifically about that falling apple and reduced our conceptions of the universe to order, just as Watt thought scientifically about that kettle-lid lifted by the steam and so introduced the modern era of mechanical power brought under man's control. So Jenner thought about and experimented with cowpox until he had satisfied himself that he had discovered something which would rid the human race forever of the incubus of an intolerable pestilence.

It was in 1780 that Jenner set himself to study cowpox onvinced that had never before been attempted, for he was the secret of the conquest of that world-scourge. He confided in his friend Edward Gardner about "a most important matter the human race . . . should anything untoward turn up in brethren, the subject of ridicule." Luckily he was quite prenew been ridiculed and opposition; for has not everything was opposed, Copernicus was opposed, Harvey was opposed, Posed, and so were Darwin, Simpson and even Lister. The physiological inertia even of the educated has too often blocked

the path of advancement: but Jenner is in illustrious company, a high priest in the hierarchy of the misunderstood.

The facts or surmises before Jenner at this date, then, were -(a) Cowpox produces an eruption extremely like that of mild smallpox, it is, therefore, probably a form of smallpox modified by transmission thru the cow; (b) And an attack of cowpox protects from smallpox. To test these things experimentally some one must first be inoculated with cowpox, and, having recovered from the vaccinia, that same person must, secondly, be inoculated with the virus of smallpox or be exposed to the infection, and, thirdly, this person ought not to take the disease.

In 1788 Jenner had a careful drawing made of the hand of a milkmaid suffering from cowpox to demonstrate to Sir Edward Home how exceedingly similar were vaccinia and variola. Home agreed it was "interesting and curious," and the subject began to attract some attention in medical circles.

In November, 1789, Dr. Jenner inoculated his eldest child Edward, aged 18 months, with some swinepox virus, and as nothing untoward happened, he inoculated him again with swinepox on April 7, 1791. The child had a slight illness, very like vaccinia, from which he rapidly recovered. The moment for the crucial experiment was not yet; it came in due time, but Jenner had to wait five years for it, and five years are a long time to a man who is yearning to perform his crucial experiment. Happily for suffering humanity, in the early summer of 1796 the opportunity came; the hour and the man were there together.

Cowpox had broken out on a farm near Berkeley and a dairy maid called Sarah Neames contracted the disease. May 14, 1796, Dr. Jenner took some fluid from a sore on the woman's hand and inoculated it by slight scratching into the arm of a healthy boy eight years old, by name James Phipps. The boy had the usual "reaction" or attack of vaccinia, a discorder indictional land. order indistinguishable from the mildest form of smallpox. After an interval of six weeks, on July 1, Jenner made the most momentous but justifiable experiment, for he inoculated James Phipps with smallpox by lymph taken from a sore on a case of genuing well marked to genuine, well-marked, human smallpox, and the boy did not take the disease at all the disease at all. Jenner waited till the nineteenth of the month and finding it month, and finding that the boy had still not developed various, he could hardly wait f he could hardly write for joy. "Listen," he wrote to Gardner, "to the most delicated." "to the most delightful part of my story. The boy has since been inequalited for the been inoculated for the smallpox which, as I ventured to predict, produced no effect. produced no effect. I shall now pursue my experiments with redoubled ardor."

Here we are behind the scenes at a great discovery; "as I ventured to predict"; prediction is part of scientific theorizing; there is a place for legitimate prediction as there is for experimentation. All discoverers have made predictions; Harvey predicted the existence of the capillaries, Halley predicted the return of his comet, Adams predicted the place of the planet Neptune, the missing link in the evolutionary series of the fossil horses had been predicted long before it was actually found by Professor Marsh. Pasteur predicted that the sheep inoculated with the weak anthrax virus would be alive in the anthraxinfected field, while those not so protected would all be dead. A prediction verified is a conclusion corroborated, an investigator encouraged.

Early in 1797, thru another outbreak of cowpox, Jenner was able to inoculate three persons with variola, only to find as before that they were immune from smallpox. He now felt himself justified in preparing a paper for the Royal Society, the highest scientific tribunal in England. The council, however, returned him his paper with the remark that in their opinion the amount of evidence was not strong enough to warrant its publication in the Transactions. Jenner was wise enough not to be discouraged, and so in June, 1798, he published the paper himself under the title, "Inquiry into the causes and effects of the Variolae-Vacciniae, a disease discovered in some of the western counties of England, particularly Gloucestershire, and known by the name of cowpox." This historic pamphlet, which ranks with the great classics of medicine, was dedicated to Dr. C. H. Parry, of Bath. Later on the Royal Society was sagacious enough to elect the very man whose Paper it had previously refused.

While in London attending to the publication of his pamphlet, Dr. Jenner called on the great surgeon Mr. Cline, and left some cowpox virus with him for trial. Cline inoculated a young tubercular patient with vaccinia and later with smallpox in no less than three places. In due time this patient did not show a sign of smallpox. So impressed was Cline with this remarkable result that he wrote to Jenner thus: "I think the substitution of cowpox poison for smallpox one of the greatest improvements that has ever been made in medicine. The importance."

The word "vaccination" was coined by the French, so remarkable for the aptness of their descriptive terms, and it has

ever since remained with us as a convenient expression for the

inoculation of vaccinia as protecting from variola.4

Dr. Jenner's views were now becoming known, and the critics and the doubters had appeared: St. Thomas has always had a large following. The most formidable of the early objectors was Dr. Igenhouz, who had come to London to study inoculation for variola, and had already inoculated, among other notable persons, the Archduchess Theresa Elizabeth of Vienna. The careless vaccinations of Doctors Pearson and Woodville at the London Smallpox Hospital brought much apparent discredit on Jenner's work. In all his early work Jenner used lymph obtained directly from papules on the cow or calf, but Woodville in 1799 showed that excellent results could be got from arm-to-arm vaccination. As this latter method is a very convenient one, the technique was widely adopted. We have to remember that we are speaking of a period about sixty years before Lister gave to suffering humanity that other great gift, antisepsis: and so many arms "went wrong," not because of being vaccinated, but because the scratches were afterwards infected by the microorganisms of dirt. Jenner knew well the difference between the reaction of clean vaccination and that of an infected arm, but a great many medical men of his time did not, and so he was constantly plagued with reports of vaccinations "going wrong" when it was septic infection of uncleansed skin that had occurred. The explanation of these things by letter consumed a very great deal of his valuable time. By the end of 1799 a large number of persons had, however, been successfully vaccinated. As one Pearson proved troublesome by starting an institution for public vaccination on principles which Jenner knew to be wrong, and as Jenner found himself virtually supplanted and misrepresented, he came up to London in 1800 to vindicate his position. King, the Queen and the Prince of Wales, to whom he was presented, materially helped on the cause by countenancing the practise of vaccination. Lord Berkeley, his Lord of the Manor, was in this as in all things a kind and wise patron. United States of America vaccination made rapid progress, having been introduced there under the good auspices of the Waterhouse, professor of medicine at Cambridge, Mass. discovery was announced with true American informality as "Something curious in the medical line," on March 12, 1799.

Things went even better on the continent of Europe; deCarro, of Vienna, inaugurated vaccination with such zeal

⁴It is certainly not necessary to point out that the principle of vaccination has been one of wide application in modern medicine. Our word "vaccine" testifies to this. A vaccine is a liquid, the result of microbic growth, injected into a patient in order to render him immune from that particular disease which is caused by sufficient intection with the microorganisms in question, e. g., of yphoid fever or of plague.

and discrimination that it spread to Switzerland, France, Italy and Spain. From Spain it passed over to Latin America. In Sicily and Naples, "the blessed vaccine" was received by religious processions. Sacco, of Milan, commenced vaccinating in 100, processions. in 1801, and in a few years had vaccinated 20,000. In Paris, a Vaccine Institute was established; and Napoleon ordered all his soldiers who had not had smallpox to be vaccinated. On Jenner's application, the Emperor liberated several English prisoners remarking—"What that man asks is not to be re-Napoleon voted 100,000 francs for the propagation of Vaccination. Lord Elgin introduced it into Turkey and Greece. The Empress of Russia, Catherine II., was one of the greatest supporters of Jennerian vaccination. She decreed that the first child vaccinated in Russia should be called "Vaccinoff," should be conveyed to Petrograd in an imperial coach, educated at the expense of the state and receive a pension for life. life. The Emperor of Austria and the King of Spain released English prisoners at Jenner's request. There were statues of Jenner erected abroad, at Boulogne and at Brunn, in Moravia, before any in England. Thus the European countries showed their any in England. their gratitude to the Englishman whose patience, genius and absence of self-seeking had rid them of the detestable worldplague of self-seeking had rid them of the december by law in of smallpox. Vaccination was made compulsory by law in no less than five European countries before it was so in the United Kingdom in 1853. In eight countries vaccination The clergy is provided Kingdom in 1853. In eight countries of Covided free at the expense of the government. The clergy of Geneva and of Holland from their pulpits recommended their pulpits recommended their people to be vaccinated. In Germany, Jenner's birthday (May 17) was celebrated as a holdiay. Within six years, Jenner's gift to humanity had been accepted with that readiness. The most ness with which the drowning clutch at straws. The most diverse with which the drowning clutch at straws. diverse climes, races, tongues and religions were united in blessing. The North American blessing vaccination and its discoverer. The North American Indian vaccination and its discoverer. Indians forwarded to Dr. Jenner a quaintly worded address full of a forwarded to Dr. Jenner a quaintly worded them from: full of the deepest gratitude for what he had saved them from: We shall not fail," said these simple people, "to teach our children and to thank the Great children to speak the name of Jenner, and to thank the Great Spirit for bestowing upon him so much wisdom and so much

There are two allusions to smallpox in "Don Juan," which teachings were in the air. The first is:

The doctor paid off an old pox By borrowing a new one from an ox. (Canto I., stanza 129.)

 T_{h_e} second is:

I said the smallpox has gone out of late, Perhaps it may be followed by the great. (Stanza 130.)

Before 1812, Jenner had been made an honorary member of nearly every scientific society in Europe, and had received the freedom of the cities of London, Edinburgh, Dublin and Glasgow. The Medical Society of London presented him with a gold medal struck in his honor; in Berlin in 1812 there was a Jennerian festival on the anniversary of Phipps's vaccination. Addresses and diplomas were showered on him, and in 1813 the University of Oxford conferred on him the degree of M. D. honoris causa. As he refused point blank to pass the examination in Latin and Greek required by the Royal College of Physicians of London, Jenner never obtained admission into that learned body. When some one recommended him to revise his classics so that he might become an F. R. C. P. he replied, "I would not do it for a diadem"; and then, thinking of a far better reward, added: "I would not do it for John Hunter's museum."

But while the pure in heart were thus receiving the blessing offered them by the benevolent man of science, the pests of society, those discontended and jaundiced ones who are always to be found in the dark recesses of the cave of Adullam, were not idle. Many of his medical colleagues did indeed sneer, 70 some are always and to do at any name this. some are always apt to do at any new thing however good. all these Jenner replied, and a very great deal of his valuable time was consumed in arguing with them. But the sect of the anti-vaccinators had arisen, and was to some extent organized. Caricatures, lampoons, scurrilities, vulgarities and misrepresentations, were scattered on all sides. Nothing was too absurd to be stated or believed—that vaccinated persons had their faces grow like and faces grow like oxen, that they coughed like cows, bellowed like bulls and because he was a second to be seen that they coughed like cows, bellowed like bulls and because he was a second to be seen that they coughed like cows, bellowed like bulls and because he was a second to be seen that they coughed like cows, bellowed like bulls and because he was a second to be seen that they coughed like cows, bellowed like bulls and because he was a second to be seen that they coughed like cows, bellowed like bulls and because he was a second to be seen that they coughed like cows, bellowed like bulls and because he was a second to be seen to be seen that they coughed like cows, bellowed like bulls and because he was a second to be seen like bulls and became hairy on the body. One omniscient objector declared that, "vaccination was the most degrading relapse of philosophy that had been seen to be the body. relapse of philosophy that had ever disgraced the civilized world." A De Bondard world." A Dr. Rowley, evidently imagining himself honored by a special participation in the Property of the civilization in the Property of the civilization in the ci by a special participation in the Divine counsels, declared that "smallpox is a vicitation for the Divine counsels, declared that "smallpox is a visitation from God, but cowpox is produced by presumptions man and the produced had by presumptuous man. The former was what Heaven had ordained the latter is a dame. ordained, the latter is a daring violation of our holy religion. It was rather hard to blame Dr. Jenner for the origin of cowpox. But took much forbeared It took much forbearance to endure this sort of thing but Jenner's was a first-class mind. Jenner's was a first-class mind and he evidently dealt leniently even with fools. It was not a series of thing, the even with fools of the series of the ser even with fools. It was not for the first time in the world's history that a lover of months in the world's history that a lover of mankind had been spurned with the words—"He hath a down words—"He hath a devil and is mad."

Besides enduring all these mental and physical worries and the annoyance that the Royal Jennerian Society established in 1902 was so mismanaged that it collapsed in 1808, Jenner had

spent a very large sum of private money on the introduction of Vaccination. He had been, as he himself expressed it, "Vaccine clerk to the whole world." Parliament, it is true, in 1801, voted him a sum of £10,000 which was not paid for three years afterwards and was diminished by £1,000 deducted for fees, that it barely recompensed him for his outlays. By 1806, the immensity of the benefit conferred upon his diseased fellowcreatures having been recognized more perfectly in every other country than his own, the British Parliament woke up, and voted him a sum of £20,000 only one member representing the anti-vaccinators opposing the grant. Parliament, which had previously received from the Colleges of Physicians of London, Edinburgh and Dublin the most favorable reports of the efficacy Vaccination, decided to reestablish the Royal Jennerian Institute. A subscription of £7,383 from grateful India reached Jenner in 1812. In 1814 he was in London for the last time, when he was presented to the Emperor of Russia, Alexander I., who told him that he had very nearly subdued smallpox thruout that vast Empire. Jenner refused a Russian order on the ground that he was not a man of independent means.

The management of the Institute caused him much concern in his later years; he disapproved of the personnel and of his life was an article in the November number for 1822 of the of praise, it was not favorable to Jenner, who said of it, "I put this article was not written by the celebrated Francis Jeffrey, altho he was editor of the Review until 1829.

Jenner's life, apart from his great discovery and his developing the practise of vaccination, has not much incident in it. He was born on May 17, 1749, the son of the Rev. Stephen Jenner, vicar of Berkeley, Gloucestershire, England, the same Berkeley in whose castle, Edward II., the vanquished at Banockburn, was murdered in 1327. Jenner's mother's name was Head. Edward went to school at Wooton-under-Edge and the Co. and at Cirencester, and began to study medicine with a Mr. Ludlow, a surgeon at Sodbury near Bristol. In his twenty-first year, Jenner went to London as a pupil of the great John Hunter, in whose house he lived two years, during which time he was the George's Hospital. he was entered as a medical student at St. George's Hospital. It is interesting to know that while still a student he was asked by Sir resting to know that while still a student he zoological by Sir Joseph Banks to arrange and catalog the zoological specim Joseph Banks to arrange and catalog the zoological specimens brought home by the circumnavigator Captain Cook in his first voyage of 1771. Jenner devoted considerable attention to natural history, to geology and to the study of

fossils, on which topics he kept up correspondence with Hunter long after he left London. In the year 1788 he married a Miss Kingscote, and settled down to practise in his native place. Mrs. Jenner died in 1815, after which date Jenner never left Berkeley again.

Curiously enough, it was not until 1792 that Jenner obtained the degree of M. D., and it was not from an English university at all, but from the University of St. Andrews in Scotland. This university, the smallest altho the oldest of the Scottish universities, has therefore the honor of being the Alma Mater to the epoch-making Englishman. I have seen the entry of the name in the list of graduates for the year 1792; it has evidently been misspelled, for the name is corrected. first foreign university to recognize Jenner's eminence was Göttingen. In 1794 Jenner had an attack of typhus fever Jenner never cared for London or a city life, and altho in 1808 he was persuaded to take a house in town, he soon gave it up and went back to his beautiful Gloucestershire. many years he practised during the season in the pleasant health-resort of Cheltenham. He loved the country, he studied lovingly the living things around him there: many are familiar with a piece of verse he wrote on "The signs of rain."

The year 1810 was a sad one for Jenner: his eldest son died, and that noticeably depressed his health. In 1823 he presented a paper to the Royal Society on the migration of birds, a subject not even yet fully cleared up. On January 25, in the same year, he was stricken with paralysis on the right side and died within twenty-four hours. His body was buried in the chancel of the parish church of Berkeley, where there is a memorial window placed by public subscription. In person, Edward Jenner was short and rather heavily built; his expression of face was pleasant with a touch of sadness. All reports agree that in dress he was conspicuously neat, looking more like a gentleman-farmer than a physician, with his blue coat, yellow buttons, red waistcoat, buff breeches and top-boots.

There is no disguising the fact that during his lifetime Dr. Jenner was much more appreciated in foreign countries than he England. The medico-social club of Alverton, near where on lived, would not listen to him when he addressed them the vaccination. The effort to collect enough money from the medical men of England in order to place a marble statue for Jenner in the nave of Gloucester Cathedral, was successful only after a long delay. An attempt to erect a statue in Lon-

don died of apathy; but in 1858, 32 years after he died, a statue was erected in Trafalgar Square. In 1862 it was removed to a quiet corner of Kensington gardens; and perhaps its surroundings, the trees, the flowers and the birds he loved are more suitable than the effigies of those national heroes who served their country by taking, not by saving life. No, Nelson the hero is hardly the suitable companion for Jenner the hero.

There is no doubt that Jenner's medical contemporaries, at least in England, failed to appreciate the magnitude of the gift their colleague had presented not merely to his own country, but to the world at large. The discovery had, of course, been led up to by several different lines of indication, but this in no way detracts from the genius of Jenner in drawing his memorable inductions from the few facts which others had known before his time. The fame of Newton is no whit diminished because Copernicus, Kepler and Galileo lived and worked before him, the credit due to Harvey is none the less because many before his time had worked on the problem of the heart vessels, and because some of them, notably Cesalpinus, came within a very little of the discovery of the circulation; the achievements of Darwin are not to be belittled because Lamarck, Malthus or Monboddo had notions in accordance with the tenor of his great generalization of evolution among living beings. Certainly Jenner had precursors; but it was his genius and his genius alone which, putting together the various fragments of knowledge already possessed, gave us the grand but simple induction based on his own experiments that vaccinia protects from variola. It was too simple and too new to be appreciated in all its bearings either by the medical men or the laity of his own day. Its impressiveness is not inherent in it, as it is in the mathematical demonstration of universal gravitation, as it is in the atomic theory or in that of the survival of the fittest thru natural selection. The English country doctor merely said in essence—"let me give you cowpox and you will not get smallpox."

Unless the fact of this immunity is regarded as possessed by all the nations of the world for ever more there is nothing particularly impressive in it and so it failed to impress his contemporaries. It is only when we contrast the loathsomeness and danger of smallpox with we contrast the loathsomeness and danger of smallpox with the mildness and safety of vaccinia and varioloid that we grasp the greatness of the work which Jenner did for mankind. The very simplicity of vaccination detracts from its impressiveness unless its results are viewed thru the vista of the centuries. We need the proper historical perspective in this as in all else. We need the proper instorical perspective are most improcedure and the universality of its application are most imposing the scientific posing. Vaccination does not, indeed, dazzle the scientific

imagination like some of the other generalizations of biology, but it is one that has been gloriously vindicated by the subsequent history of the world's hygiene.

Jenner knew himself to be a benefactor of the human race; he would have been insincere if he had pretended otherwise; he finished his first paper with these words: "I shall endeavor still farther to prosecute this inquiry, an inquiry, I trust, not merely speculative, but of sufficient moment to inspire the pleasing hope of its becoming essentially useful to mankind"; and on his death-bed he said, "I do not marvel that men are not grateful to me, but I am surprised that they do not feel grateful to God for making me a medium of good."

In private life Dr. Jenner was amiable and kind-hearted, Dibden said of him: "I never knew a man of simpler mind of of warmer heart." He was particularly kind to the poor. Dr. Matthew Baillie said of him: "Jenner might have been immensely rich if he had not published his discovery."

We may in conclusion examine some of the objections to and criticisms of vaccination. The objections can be classified as those entertained (a) by medical men and (b) those by the public generally.

The objections raised by medical men are now a matter of ancient history. Each generation of medical men has refused at first to admit any new teaching promulgated in its time; physiological inertia is not at once overcome. The most enlightened of Jenner's critics did really believe that he was drawing too extensive an induction from insufficient data this was the position of the Royal Society in 1788; but the Edin burgh reviewer of 1822 should have known better. The purely technical criticisms of Jenner's work have by this time been fully assessed and replied to. It is true that at one time it was not clear what were the relationships of chickenpox and small pox, of vaccinia and variola, of vaccinia and varioloid, of the various forms of pox in animals—cowpox, swinepox, horsepox or grease—either inter se or to human smallpox. But I do not suppose that in this year of grace 1914 there can be found one properly trained medical man, acquainted with the history of Jennerian vaccination, familiar with the ravages of smallpot and with the protection and with the protective power of vaccinia, who could be induced by no matter. duced, by no matter how large a bribe, to say that he disapproved of vaccination and proved of vaccination or that he believed it did not protect from smallpox. There are cranks in all walks of life, but the medical crank who is also an anti-vaccinationist is happily the rarest of them all.

The lay objectors—the professed anti-vaccinators—are with us yet in spite of some very serious lessons which have been taught them. We may pass by the objectors of the class who believe that vaccinated persons cough like cows and bellow like bulls; these objections go into the limbo of old wives' fables or into the category of wilful misrepresentation. Unfortunately there is a large class of persons who can believe the absurdest nonsense about any subject which is particularly distasteful to them. Another class of objection is the sentimental repugnance to the idea of being given one of the diseases of "the lower animals." Now the fact is that already we share a great many diseases with the lower animals, a few of them being tuberculosis, anthrax, rabies, tetanus, cancer, pleuropneumonia, certain insect-borne diseases, some parasitic worm diseases and some skin diseases like favus. As the knowledge of the lowly origin of many of our diseases is more widespread, this sort of objection will die out.

that in being vaccinated a child is apt to contract some infectious disease such as tuberculosis or syphilis which are the two most dreaded. Now so long as arm-to-arm vaccination was the routine practise, there was a remote probability that this sort of accident might occur. It appears to be true that a few accidents of this kind have occurred, just as a few arms have become septic or had erysipelas develop in them. But when the few such cases are compared with the millions and millions of uncomplicated vaccinations, their importance becomes very insignificant. Now that arm-to-arm vaccination is no longer practised, but fresh calf-lymph used for each child, these accidental inoculations are a thing of the past. The ignorance of cause and effect is responsible for a great deal of the most childish objections to vaccination as to much else. One woman lately told me that she could not have her child vaccinated because a child in the same street was made a cripple for life by being vaccinated. Could we have a better example of the "post hoc sed non propter hoc."

filth, then I am able to assure them that each one of them has about three liters in his own body.

educated but apparently either ignorant of logic or desirous of wilfully misrepaumber of the Contemporary Review which is, to say the least of it, highly imporal in ethics and statistics.

nents are that in the last five recorded years, 58 persons died from smallpox coination (he means against smallpox), whereas in the same five years, 85 per-

There is still that group of persons who object to everything —anti-vivisection, anti-meat eating, anti-breakfast, anti-hats and of course also anti-vaccination. They are anti the usual and the normal that are quite good enough for the most of people. They generally also believe that the earth is flat; they are past praying for, all we can do with them is to look them, like the difficulty of Jonah and the whale, "full in the face and pass on."

sons died from smallpox itself. The inference we are intended to draw from these figures is that to be vaccinated is nearly as fatal as to have smallpox itself.

Now this kind of argument is a very common one with statistically immoral persons, and is known as the suppression of the ratio Before we can appreciate the fact that in five years 58 persons died after being vaccinated, we at least need to know the total number of paragraphs and provided the state of the state o need to know the total number of persons who were vaccinated. persons were vaccinated and they all died, then the mortality was 100 per cent. but if, as was practically the case, thousands of infants in Great Britain were vaccinated in five years, then if only 58 died after vaccination (altho not necessarily in consequence of it) the mortality falls some thousands of a per cent. The suppression of the ratio, ie. 58: many thousands, is the deceit that is practised.

Fifty-eight per year for five years, is 11.6 deaths per year of persons vaccinated. Presumably these were infants. Taking the birth-rate in England as 30 per 1,000 living, we may say that 900,000 infants were born; deduct 100,000 as not vaccinated, we have 800,000 infants vaccinated, of these 11.6 died after being vaccinated, which is 0.0014 per cent. This is not much of a mortality from any cause; but using Mr. Coleridge's own figures, it is a splendid demonstration of the safety of infant-vaccination, the opposite of what he pretends it shows. of the safety of infant-vaccination, the opposite of what he pretends it shows.

Mr. Coleridge proceeds to tell usthat in five years 85 persons died of smallin Great Britain de an actual and a small single small sing pox in Great Britain, i. e., an average of 17 persons per year. In other words 17 persons died of smallpox in a country with 30 million inhabitants, or 0.000056 per cent, of persons living not a high country. per cent. of persons living, not a high mortality. And we strongly suspect, nay we hope that those 17 were persons who had. we hope, that those 17 were persons who had not been vaccinated.

But in Pre-Jennerian days, 17 persons died of smallpox out of every 100

persons dying from all causes.

Mr. Coleridge's figures, properly and honestly interpreted, testify loudly to doubt conclusions exactly the opposite of what he desires to insinuate; he has no doubt taken the statistics of the Paginter Control taken the statistics of the Registrar-General, but he has prostituted them

Mr. Coleridge's paper could not be a better example of the art of conceal he causes of phenomena

ing the causes of phenomena.

He exhibits the following table:

Deaths from smallpox per annum per a million living:

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1862-1870																															172 .	
1871-1880																															244.	6
1881-1890																															45	8
	•	٠		•	٠	٠	•	•	٠	•	٠	•	٠	•	•	•	•	•	•	•	٠	•	•	٠	•	•	•	•	•	•	13.	_
1891-1900																				•	•	٠	•	٠	•	•	•	•	•	•		_
1901-1910																															12.	ð
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So that the table shows that since 1880 in Great Britain the deaths from small pox per million per year have declined until the since 1880 in Great Britain the deaths from small pox per million per year have declined until the since 1880 in Great Britain the deaths from small pox per million per year have declined until the since 1880 in Great Britain the deaths from small pox per million per year have declined until the since 1880 in Great Britain the deaths from small pox per million per year have declined until the since 1880 in Great Britain the deaths from small pox per million per year have declined until the since 1880 in Great Britain the deaths from small pox per million per year have declined until the since 1880 in Great Britain the deaths from small pox per million per year have declined until the since 1880 in Great Britain the deaths from small pox per million per year have declined until the since 1880 in Great Britain the deaths from small pox per million per year have declined until the since 1880 in Great Britain the deaths from the since 1880 in Great Britain the deaths from the since 1880 in Great Britain the deaths from the since 1880 in Great Britain the deaths from the since 1880 in Great Britain the deaths from the since 1880 in Great Britain the deaths from the since 1880 in Great Britain the deaths from the since 1880 in Great Britain the deaths from the since 1880 in Great Britain the deaths from the since 1880 in Great Britain the deaths from the since 1880 in Great Britain the deaths from the since 1880 in Great Britain the deaths from the since 1880 in Great Britain the deaths from the since 1880 in Great Britain the deaths from the since 1880 in Great Britain the deaths from the since 1880 in Great Britain the deaths from the since 1880 in Great Britain the deaths from the since 1880 in Great Britain the deaths from the since 1880 in Great Britain the deaths from the since 1880 in Great Britain the since 1880 in Great Britain the since 1880 in Great Britain the since 1880 in Great pox per million per year have declined until they are only about 1/14th of their original number.

The natural inference from these figures, viewed in the light of the history nallpox in Great Britain is that again, would be laughable if it were not really serious; it is sad and serious that a man of Mr. Coleridge's education and social activities it is sad and serious that a mislead of Mr. Coleridge's education and social position should so consistently mislead the uncritical readers of the Contemporary Review to whose pages he has is fortunately very free access. If Mr. Coleridge and whose pages he is fortunately very free access. If Mr. Coleridge really believes these things will either very stupid or very ignorant; if he knows them to be otherwise, but will deceive the public, he is immoral. He august for the public of bias, fully deceives the public, he is immoral. He suffers from the worst form of bias, the anti-scientific.

Many people at the present time allow themselves to be persuaded into being anti-vaccinators because neither they nor their deluders have ever known what an epidemic of smallpox is, have never seen with their own eyes the awful spectacle of a person suffering from smallpox in any of its forms—discrete, confluent or hemorrhagic. Thanks to this very Jenner, the world has now for 100 years been almost free from epidemic, virulent smallpox and most perfectly so in the vaccinated countries, so that millions, the majority, of Englishmen, have never seen a case of smallpox at all. Not knowing the awful danger they have escaped, thru Great Britain having had compulsory vaccination since 1853, they have become lax in their belief in the necessity for the continuance of that precaution. They jest at scars that never felt a wound." Towns such as Gloucester in England, in which a large number of children have been allowed to grow up unvaccinated, have always been visit allowed to grow up unvaccinated, have always been like allowed to grow up unvaccinated, have always been like allowed to grow up unvaccinated, have always been like allowed to grow up unvaccinated, have always been like allowed to grow up unvaccinated, have always been like allowed to grow up unvaccinated, have always been like allowed to grow up unvaccinated, have always been like al visited sooner or later by a serious outbreak of smallpox. must be so; the laws of natural phenomena can not be changed to suit the taste of those persons who are mentally incapable of understanding them. They can not be evaded; ignorance of the law is no more an excuse in the realm of natural than of man-made law.

We now come to that undesirable product of present-day, grand-motherly legislation, the conscientious objector. As I am not a politician, I shall not say anything for or against the policy of inserting in a bill which makes vaccination compulsory a clause giving to the conscientious objector the power or hight to refuse to have his child vaccinated, but as a medical man who knows a little of the history of medicine, I can only describe it as gratuitous folly. I am one of those who believe that the laity should have no say in the matter of whether any given procedure is or is not advantageous for the public health. The efficacy of universal inoculation of vaccinia as a prophylactic against variola is a question of scientific medicine to be decided on technical grounds and ought not to be a matter open to debate by the public at all. It is perfectly monstrous to suppose that the ordinary person, quite untrained to weigh evidence for or against the advisability of the carrying out of a particular form of national immunization against a horrid disease, is qualified to form any opinion. He might as well be come is disease, is distingthe channel tunnel be consulted on the advisability of making the channel tunnel or on the advisability of making the character to permit the volving the safest type of aeroplane or on any outer substitute safest type of aeroplane or on any outer substitute safest type of aeroplane or on any outer substitute safest type of aeroplane or on any outer substitute safest type of aeroplane or on any outer substitute safest type of aeroplane or on any outer substitute safest type of aeroplane or on any outer substitute safest type of aeroplane or on any outer substitute safest type of aeroplane or on any outer substitute safest type of aeroplane or on any outer substitute safest type of aeroplane or on any outer substitute safest type of aeroplane or on any outer substitute safest type of aeroplane or on any outer substitute safest type of aeroplane or on any outer substitute safest type of aeroplane or on any outer substitute safest type of aeroplane or on any outer substitute safest type safest type of aeroplane or on any outer substitute safest type safest typ not permit the carrying out of some important piece of civic hygiene is to introduce a principle subversive of all system and obstructive of all progress in the science of public health.

is absurd that in a case like this the pronouncements of the judges are to be submitted to the critisisms of the jury. land has already had one or two pretty severe lessons thru allowing such places as Gloucester and Leicester to exercise their right of private judgment on the question of vaccination. In Gloucester where there was at one time a vigorous antivaccination movement, a serious epidemic overtook the city a few years ago (1896). What science pronounces to be beneficial, the layman must submit to. What we want in these days is less superstition and more faith—in science. I am informed that there are more than 2,000 unvaccinated children in the schools of this city at the present moment, and all because a piece of legislation allows any unintelligent, prejudiced or credulous parent to decide on the momentous question of the vaccination of his children.

Our quarantine regulations are extremely strict, and rightly so, on the subject of smallpox; but is it not a farce to take so much trouble about the health of our immigrants when inside the city we are all the time encouraging a high degree of receptivity towards this very disease? I should call this a very clear case of straining at the international gnat and swallowing the municipal camel. The community at present is at the mercy of its least instructed members. A most sen sible suggestion is that if an outbreak of smallpox occurs in Halifax, the cost of it should be borne by the unvaccinated and by the anti-vaccinators. The fact is we have forgotten what smallpox is like. In 1796 before Jennerian vaccination, the death-rate from smallpox in England was 18.5 per cent it deaths from all causes; in London between 1838 and 1869 it was 1.4 per cent., while in 1871—the worst year for smallpox since vaccination became compulsory—the deaths from smallpox were barely 4.5 per cent. of deaths from all causes, a proportion which portion which was exceeded 93 times in the eighteenth century. At the present moment the deaths from smallpox in London constitute a little way and a constitute a little way. constitute a little under 0.24 per cent. of deaths from all causes, or 77 times less than in pre-Jennerian times.

According to MacVail, in the pre-vaccination period small pox was nine times as fatal as measles and seven and one-half times as fatal as whose in the pre-vaccination period shalf times as fatal as whose period shalf times are the pre-vaccination period shalf times as fatal as whose period shalf times a times as fatal as whooping cough. Today in the vaccinated community its fatality is not in the vaccinated community its fatality is negligible, in the unvaccinated it is as high as it was in the Middle A high as it was in the Middle Ages. In the city of Berlin, where vaccination is about the Middle Ages. vaccination is absolutely compulsory, there is no small post hospital at all the accept hospital at all; the cases of smallpox in that city being only a few unvaccinated forcing few unvaccinated foreigners. In 1912 the deaths in variation York City were as follow: 671 from measles, 614 from scarlaging, 500 from typhoid for tina, 500 from typhoid fever, 187 from whooping cough and from smallnox

from smallpox.

In London there were in 48 years of the seventeenth century no less than 10 epidemics of smallpox; in the whole of the eighteenth, 19; and in the nineteenth no epidemic at all during which smallpox was responsible for more than one-tenth of the deaths from all causes in any one year.

In Sweden, the highest death-rate before vaccination was per 1,000 persons, the lowest 0.30; under permissive vaccination the highest was 2.57, the lowest 0.12; under compulsory vaccination the highest was 0.94, the lowest 0.0005.

It is so frequently said that the disappearance of smallpox is due not to vaccination, but to improved general hygiene, that we must look into this criticism with some care. In the first place, a large diminution in the mortality from smallpox occurred before there was any great change in the unsanitary conditions of the English towns, before there was any enforcing of the isolation of patients either in hospitals or in their own Since the introduction of vaccination, measles and whooping cough still remain in the status quo ante, while smallpox has been exterminated in all fully vaccinated communities, these two diseases of children are as prevalent as ever in England even altho the general sanitary conditions have been immensely improved in that country. Of course the effects of vaccination wear out in time, and that is why it is well to be revaccinated once or twice. Now there has been a remarkable progressive change in the age-incidence of smallpox "which can only be explained," says Dr. Newsholme, on the assumption that vaccination protects children from mallpox and that the protection diminishes, tho it never entirely disappears, as age advances."

The "conscience clause" should be immediately removed weak and reactionary in principle, not in the interests of the development of the legislative aspect of the science of public quite a considerable number of unvaccinated children to grow up as a permanent menace to their town and district.

When the history of medicine becomes more widely known, generally understood, when respect for science is the rule rather than the exception, when great achievements in the saving ation, then we may hope to see the day when it will be unhesitatingly admitted that the discovery by Dr. Edward Jenner, of the Englishman, was one of the most momentous in the history most unselfish, and, in its far-reaching effects, most important that has ever been lived on this planet.

Rural Science Bulletin.

Vol. II.

TRURO, 10 DECEMBER, 1915.

No. 2.

Editor: L. A. DeWOLFE, M. Sc., Normal College, Truro, Nova Scotia.

PHENOLOGICAL OBSERVATIONS.

For a number of years the phenological observation sheets have been averaged and compiled by the voluntary efforts of leading teachers and by the officials of the Education Office. Within the past month, however, a dozen leading Rural Science teachers have undertaken that work.

This leads us to comment on the regrettable fact that several rural science teachers failed to keep the phenological records last year. A hint is all that is needed to prevent such neglect again. The teachers who are compiling the records will look to the rural science teachers of their respective counties for the most reliable reports.

WHAT IS REQUIRED OF RURAL SCIENCE TEACHERS.

The Regulations of the Council of Public Instruction state, in a general way, what is required of a rural science teacher who expects an extra government grant. For even the lowest grant, we are informed that "the school house, grounds, apparatus and library must indicate creditable effort on the part of all concerned to do well the general and special work of the school."

Won't all rural science teachers read this regulation again and note the implied meaning of every word? The general work is under the supervision of the Inspector. The special work comes under the care of the Director of Rural Science. Both officers co-operate, however; and neither wishes any department to suffer on account of demands of the other. All round work is expected.

For the special work the Director expects to see in every school room the following:—Collections of pressed plants, mounted and named; collections of insects, minerals, native woods; nature booklets, with drawings and written descriptions of plants and animals studied. On the teacher's desk should be plans, drawn to scale, of the children's home gardens. Here, too, should be the phenological sheet—tho a corner on the blackboard should be used for the daily record of the children's observations.

In spring and fall, the windows should be filled with growing plants. Some of these will be house plants. Others will be seedlings, later to be transplanted to the garden. Outside window boxes attract the attention of the passer-by. So, of course, does the school garden.

In the fall, caterpillars and their cocoons will occupy a corner somewhere. Bottles of water containing frogs' eggs will be one of the attractions of spring. At all times, nature pictures should hang on the wall. The blackboards should be attractive. A stencilled border is worth much more than it costs. It does not occupy space needed for the regular work.

Besides the foregoing, which is expected of every teacher, the following suggest possibilities for the more ambitious ones. Industrial and commercial

collections are obtainable. In Nova Scotia, we manufacture cotton, rope, woollen goods, steel, etc. Get collections illustrating these industries—from raw material to finished product. Many teachers already possess such collections. Other industries are those relating to canning, fishing, lumbering, pulp and paper, etc. Why not have a collection of artificial fertilizers with notes on their uses and comparative values? A collection of insecticides and fungicides is almost necessary in these days of spraying.

In your plant collections, have one collection to illustrate the various ways plants are propagated. Another will show seed-dispersal. Another, plant diseases. Another, weeds, weed-seeds, etc. On the sea shore, collect sea-shells and sea-weeds. Near the coal mines, collect fossils. Exchange material with teachers in other parts of the province.

The primary grades will be proud of their handwork in raffia, cardboard, etc.

Life histories from seed to seed, or from egg to egg are interesting collections.

For suggestions, see Journal of Education, April 1907, pages 49-77.

In High School departments, the Botany, Chemistry and Physics can be approached from the rural science standpoint more effectively than slavishly daily life.

All the teachers of the Model School in Frederiction will attend the Short Course at the Agricultural School, Sussex, January 3—10. [Truro News.]

A short course for women opens January 4th at the Agricultural College, Truro, in conjunction with that for men. Rural Science teachers within easy reach of Truro might enjoy three or four days here. The railways offer reduced rates, one fare, on the Standard Certificate plan.

MAGAZINES.

The Garden Magazine, The Guide to Nature and Nature Study Review—besides five magazines. Many get one or two Unfortunately about ten per cent of group.

For teachers who contemplate adding to their list of magazines none are helpful than the Country Gentleman. The price in Canada is \$1.75. It published weekly by the Curtis Publishing Co., Philadelphia.

PLANTS IN THE SCHOOL ROOM.

The teacher whose list of magazines is cited in the foregoing section has twelve kinds of flowers growing in her school room. Altogether she has about thirty plants.

for Window plants for early spring. Plants can be safely grown in the school home two months earlier than in the garden. Won't each child start a plant at may be taken home again.

the summer. A bed of geraniums would be very attractive on the school grounds during "Slips" started now could be put out in June.

RECENT MAGAZINE ARTICLES.

In the Canadian Horticulturist, November 1915, are three good articles, Small Fruits," page 249; "Fall Treatment of Small Fruits," page 254; "Garden Suggestions for November," page 255.

The Journal of Commerce gives valuable information—especially in the articles on Canada's Natural Resources. This Journal with its Educational Supplements should reach every teacher. We have referred to it before. In a subject time it will be a supplement of the control of th short time it will issue a Supplement on Home Gardens.

"The Month's Reminder" in the Garden Magazine is always suggestive. The Country Gentleman is publishing a very valuable series of articles on "The Child's Garden;" and another on "Every Man's Garden."

The Nature Study Review for November, 1915, has several articles well worth reading.

"The Schoolmate" is an interesting little magazine for Children. Its regular price is now 50 cents a year. But if a teacher will order for twenty or more children in her own name, the price will be 10 cents a year to each child. A teacher may, therefore, collect 10 cents from each of twenty children; send the two dollars to Mayflower Publishing Co. Floral Park, N. Y; and receive each month twenty copies of the "Schoolmate" to be distributed among the children. This is a good offer.

NOVA SCOTIA ENTOMOLOGICAL SOCIETY.

An Entomological Society has been formed for Nova Scotia with an initial membership of between thirty and forty. The objects of the Society are too co-ordinate the work of all those interested in insect life; to keep members informed of the many rapid advances in entomological science; and to serve as a bureau of information on all entomological subjects.

All those who join the society enjoy full rights as members of the Ontario Entomological Society of which the Nova Scotia Society constitutes a branch. They will accordingly receive their monthly publication, the Canadian Entomologist, as well as their annual report. In addition to this, all the members, thru the courtesy of the Dominion Entomologist, Dr. C. G. Hewitt, are placed on the modified like the receive the publications of the Dominion Canadian and the publication mailing list to receive the publications of the Dominion Entomological Branch. A complete illustrated report, covering the proceedings of the first annual meeting is being prepared and will be sent to members.

All those who desire to identify themselves with this society should send in their annual subscription fee of \$1.00 per year to the Secretary-Treasurer, W. H. Brittain, Truro, N. S., of the Assistant Secretary-Treasurer, G. E. Sanders, Annapolis Royal, N. S.

A teacher supplies the following recipe for making modell ing clay. Besides the uses she suggests, it is suitable for making relief maps—the mountains and valleys being actually moulded in the clay. Children often make beads of this material.

MODELLING CLAY.

Mix with water until it will mould like dough and will not stick to the hands one cupful of flour, one-half cupful of salt, and a teaspoonful of powdered alum.

If you wish to color it add cales are all cales are a salt, and a teaspoonful of powdered alum. If you wish to color it, add cake or candy dye to the water before mixing.

If wrapped in a damp cloth, the clay can be used over and over and will for some time. keep for some time.

Modelling clay is not only an excellent "busy work" but develops thought originality. and originality.

SHORT EXTRACTS FROM LETTERS.

"I have interested three schools in our Exhibition for next year. I have in mind two more, which I shall reach when opportunity offers.'

"I have been very much interested in the Rural Science Bulletin, and trtus it will continue."

"The original Savings Bank idea in our town schools was that the children were to earn the money themselves; and were to attend school at least four days each week they banked, thus good attendance and industry, with economy, were encouraged."

"Our Library now numbers 160 volumes."

"At our public examination, prizes from one of the citizens were awarded for the two best essays on Birds. Another citizen gave prizes for scholarship—Rural Science Science certainly creates an interest in everything pertaining to school work.

"We had one very successful field excursion. I explained to the children beforehand why we were going and what I wanted them to note. The next day, they wrote very interesting accounts of what they saw."

The bird pictures are useful in so many ways. They not only assist in beoming acquanted with the birds, but they furnish material for drawing, painting and color work."

"The Women's Institute has promised to help wherever possible. I am preparing a paper of suggestions to read at their next meeting.

Our Exhibition certainly had the desired effect in stimulating the whole

"As the school grounds are too small for a garden, I have persuaded one of the rate payers to give us the use of a piece of his 1 one of the rate payers to give us the use of a piece of his land. It has been plowed, ready for spring work'

In reply to an inquiry as to what should be expected of Rural Science teachers, one Inspector writes as follows:

I would ask them thru their influence with their Boards to give some evidence that the school premises had been improved during their services as

Possibly I may be disposed to emphasize this side of the work more than you. fluence will be at the process and the state of the work more than you. I fear that some of our teachers are disposed to shirk these important things. fluence will be short-lived.

This note from Londonderry is encouraging:—

L. A. DeWolfe, Director Rural Science, Truro, N. S. Dear Mr. DeWolfe:-

Londonderry, N. S. October 22nd, 1915.

We had our Exhibition today. I could not let it pass without letting you know booking. While everything was naturally conducted on a very small scale, we are forward forward Exhibition, probably in early of it. While everything was naturally conducted on a very small scale, we are looking forward with great hopes to our Spring Exhibition, probably in early lune. Then we can have flowers from the gardens. We had five departments the was really wonderful what the children brought and miscellaneous. It was something entirely new for Londonderry. from the parents. It was something entirely new for Londonderry.

Selden C. Bryson.

how the exhibition may also assist in history. The following note from Miss Calder, Five Islands, shows

cooking, etc, the exhibits of vegetables, grain, poultry, wood work, fancy work, homes. Most of these were brought from foreign countries. Among these was also a musker need at the close of Quebec, another used in American Civil War, an old musket used at the siege of Quebec, another used in American Civil War, also a table cloth made from flax grown in Economy, a great many years ago.

Rural Science Bulletin.

Vol II.

TRURO, 14 JANUARY, 1916.

No. 8.

Editor: L. A. DeWOLFE, M. Sc., Normal College, Truro, Nova Scotia.

ANSWERS TO QUESTIONS.

Questions of general interest may be answered in the form of general comment and suggestions without quoting the direct question. This opening section, therefore, tho it lacks unity, covers a variety of topics suggested by a variety of inquiries.

On general principles, exhibition prize money donated by the Government to encourage teachers and spheals to the standard principles. was to encourage teachers and schools to try the experiment of holding exhibitions. Where such are once established it is hoped that the citizens will become sufficiently interested to rally to their grant that the citizens will become ciently interested to rally to their support in future years. Sections or towns, therefore, that have already received therefore, that have already received government aid should not expect further assistance from that source. The demands from new sections are practically all that we can meet.

Some sections have already held school entertainments; and, from the funds collected, have laid aside their next year's prize money. Other schools will do so during the winter months. It is easier to hold such entertainments now than in the fall months when the exhibition money is readed

Sowing for Others to Reap.

One of the difficulties in getting permanent work started in School Improvement is the frequent change of teachers. A teacher frequently gives as an excuse for not having planted shrubbery or started a gooden has designed as for not having planted shrubbery or started a garden, her decision not to remain in the section next year. She will say "I'll be considered." in the section next year. She will say "I'll be gone before things will grow any way" Very often we hear "If I had planned to remain in that school, I should have planted a garden." planted a garden.

This is somewhat beneath the dignity of a real teacher. Why should specified for the source of the part to call the part to call. not sow for others to reap? Possibly the next teacher will neglect what the previous one began. But, again, possibly the way. vious one began. But, again, possibly she wont. Does a teacher ever refuse to do Grade I work because she does not expect to be in that school next year to carry the same children thru Grade II?

Especially in the spring months do we hope all teachers will assist in establishing home gardens and school gardens. When teachers change, they can leave a letter in the register, informing the coming teacher of which and a letter in the register, informing the coming teacher of what has been done and expressing the wish that the work will be corried to

During the winter, too, we hope all teachers will do something to raise the small amount of prize money for next fall exhibitions. Those who leave the section in June may leave this money with some reliable person, and report fact in the last quarterly report for the year. Five dellars about the the minimum. fact in the last quarterly report for the year. Five dollars should be the minimum.

For some reason a smaller percentage of Rural Science teachers are reporting work this year than last. This is disconnected teachers are that the their work this year than last. This is disappointing. We realize that the small money grant does not encourage any extra effort. But on the other hand, we are glad so many do their very best regardless of the state of the sta

Last year, we gave sittings of eggs free to children who applied early for the nothing. In some cases parents took advantage of this offer to "get something for nothing."

The idea is that the children should acquire a knowledge of and an interest in chicken-raising. To avoid, to some extent, this abuse of privilege, we shall ask the children to pay about half the cost in future. The Agricultural College will sell egge the cost in future. The Rural Science Department will sell eggs to children at 40 cents a sitting. The Rural Science Department will pay the balance. Children who really want eggs from pure bred poultry will gladly pay the forty cents.

In the same way we will supply strawberry plants at a cost of 25 cents a The government will pay the balance.

All teachers interested in Rose Culture should write to the Department of Agriculture, Ottawa, and ask for Bulletin No. 85. It gives valuable information relative to hardy roses.

We hope all teachers realize what assistance they can get from the Women's Institute. If none exists in your section, could you not be instrumental in organiz-

A GOOD SUGGESTION.

Mr. A. J. Crockett, representative of the Industrial and Educational Press, reports good work on the part of the teachers whom he visited along the South Shore. He speaks Particularly of the good work being done by Mr. Wetmore, at Milton, Queens County. In this connexion the following extra. extract from a letter written by Mr. Crockett's firm to Mr. Wetmore has suggestions that are worth passing along.

By this morning's mail we have received an excellent suggestion from Mr. A. Kennedy, this morning's mail we have received an excenent suggestion. His letter in M. A., Inspector of Schools for the District of Weyburn, Sask. His letter in part reads as follows:—

"The excellent series of Supplements you are issuing, which I find are now going to most of the schools in my district, emphasize the main features of geo-graphy which I have been pressing upon my teachers, namely:—

First:—The resources of forest, mine, ranch, farm, orchard, hunting, fishing

Second:—The people—lumbermen, miners, ranchers, farmers, fruit growers, hunters, fisherment, etc.

Third:—Trade routes by land and water, together with the commodities that are brought in and taken out of the country over them."

t occurs to me that a very valuable scheme of competitive compositions could be organized, based upon the subjects dealt with in each of your Supplements as they appear. If you care to support such a competition, I will organize to my diet appear. it for my district and attend to the collections of exhibits, judging, etc., and report the winner of the best exhibits. I am anxious to have the winners to you, together with some of the best exhibits. I am anxious to have the teacher the Winners to you, together with some of the best exhibits. I am analous the teachers train their pupils to write on matters of this kind and believe that your purpose. purpose as well as mine will be served."

"For the essay based upon your Fishing Supplement, I would suggest the to limit the Fishing Grounds of Canada and their Products." It would be well to limit the entries to one per classroom, leaving the teacher to weed out the written on he essay should not be more than one thousand words on foolscap,

TIMELY CLIPPINGS.

From "The Oklahoma Farmer" Dec. 10, 1915, the following timely clipping is taken:—

WHY EXPERTS LEAVE US.

the last a sound economic policy to educate these young men at the expense of lowa, Illinois of Oklahoma and then allow them to go to Minnesota, Wisconsin, the line of their kind of education for the purposes and other states that know the value of their kind of education for the purpose of teaching to their boys and girls the value of diversification?

Well, you say, how can we keep them at home? The answer comes back-agitate until our people are willing to pay the price that will keep these young men here. The people will never be willing to do this until we as school men can show the value and need of such.

We as school men must be willing to admit that many of the things we have been teaching have not been practical and useful. Then we must decide that some other subjects such as crops, soils and animal study are not only useful but just as intellectual as the "so-called cultural subjects."

Is it not just as useful to a boy to know the possibilities of a handful of soil as to know all about partial payments? Is it not as practicable for a boy or girl to know the difference in the growth of corn and alfalfa roots as to know all about cube root? Schools with the sound of the possional payments? about cube root? Schools with home gardens are found in almost every portion of the state.

About 65 years ago Denmark was suffering from a lack of the necessaries of life. Most of her land was in the hands of a few; her people were ignorant and restless and were of sheer necessity clamoring for a change. They made the change. They taught the boys and girls in terms of their life's work; they taught the practical things of life.

Today Denmark is prosperous. Her people are satisfied and ambitious they are advancing as no other people are. No other nation has such a small per cent of illiteracy. A large per cent of illiteracy. per cent of illiteracy. A large per cent of her land is in the hands of a majority of her people. A great number of her land is in the hands of a majority of her people. A great number of her people take advantage of her higher institution of learning.

Teachers should find inspiration in this clipping from the Canadian Countryman, November 20th, 1915.

BRINGING IN BEAUTY.

Nowhere, more than in the country, are there opportunities for the adornment of the home through the planting and cultivating of Nature's most beautiful things. things.

Of such she is generous. Many of them grow almost of themselves. Scarcely have melted the winter's snows, when the bloom of the Hepatica lightens the dulp corners of the woodland, and in the garden burst forth the beauty of the tulp and the crocus. May brings the blossom to the trace and it beauty of the sheds and the crocus. May brings the blossom to the trees, and in June the rose sheds its beauty and fragrance lavishly abread. its beauty and fragrance lavishly abroad. After the midsummer wealth of flower glories have gone there is still the Golden Rod and the Aster in the fields and meadows, while in the orehard the early blossome have a few fields and of meadows. meadows, while in the orchard the early blossoms have fulfilled their promise of a yield of luscious fruits.

It is natural that the beauteous things of nature should appeal to the better is in human nature. Association will appeal to the better ideals things in human nature. Association will surely exalt the thoughts and ideals of mankind, making for the thinking of higher and ideals. of mankind, making for the thinking of higher and better and nobler thoughts, the performance of nobler and kindling of the thinking of higher and better and nobler the performance of nobler and kindling of the thinking the terms of the thinking of the t the performance of nobler and kindlier acts, the living of a bigger and a better life.

For the child reared amid such surroundings, the parent whose hand tended Love the flowers and trees may rest assured that they have not bloomed in vain. for God's Great Out-of-Doors will law the formula bloomed in vain. for God's Great Out-of-Doors will lay the foundations for a bigger, better and stronger character, just as surely as squalor and bidesure the other stronger character. stronger character, just as surely as squalor and hideousness will work the right, way. From such home surroundings come the result way. way. From such home surroundings come the strong souls, to battle for the rigion to leave the world better because they have lived in the rigion to leave the world better because they have lived in it. Wonderful is the mission of the flower.

The three following clippings are taken from the Departmental Bulletin issued by the Department of Education, Winnippeg, Manitoba peg, Manitoba.

Competitions and exhibitions, both in rural localities and in towns, toed wonders in creating interest in important localities and in towns, to the control of the control worked wonders in creating interest in improved agriculture and horticulture. They should be of equal, or greater, stimulus to a billion in the state of the stat They should be of equal, or greater, stimulus to children; in fact, a very interest on money will extend much farther and produce and children; in fact, a point on money will extend much farther and produce and money will extend much farther and produce more marked results when spent on children than on their parents.

Such competitions in school and home garden work have solved the weed problem in hundreds of districts. The plots are judged at the end of June, again at the end of August, and in addition to earning marks obtained at these judgings, comparing competitors must exhibit at the School Fair the best that the plots produce.

Many teachers hold an individual School Fair early in September; the winners at these will compete in a Municipal or Community Fair, and the winners at the latter may enter competitions for the entire inspectorate.

The School Fair, including area from the single district to the inspectorate, is Proving the best incentive to good results, not only in school gardening and agricultural work, but in all lines of school effort.

A LIBRARY CORNER.

Why not have a library corner in your school? A good book case stocked With reading matter, a kitchen table, two or three chairs, a couple of magazines, and the daily paper will do much to give a homelike aspect to your school.

ACTIVITIES AT HOME.

Teaching children to do chores at home, and giving them credit at school for doing them, is the novel plan that has been worked out in more than one farming them, is the novel plan that has been worked out in more than one farming them. community on this continent. Parents say they cannot find work enough for their children since this plan went into effect. The children keep a memorandum of the duties they perform—setting the table, wiping the dishes, fetching wood and water, milking, feeding the calves, and the like. Credit is also given for observing hardwater and sleeping with open window, deep breathing, observing hygienic practises, e. g., sleeping with open window, deep breathing, and taking physical exercises before retiring. This is a sensible and practical method of linking up the activities of home and school.

Following are four suggestive extracts from Circular Letters issued by the Bureau of Education, Washington, D. C.

Teachers' Association. Men as well as women are members of these associations, and three Association. and three have business men as presidents. School excursions form an important by the pupils. A committee of 16 men have special charge of this work, one of whom accounts the pupils. whom accompanies the children on every trip.

Children in the Public Schools of Chattanooga, Tenn., draw maps of South America on which they indicate by marks all places where goods manufactured in their in their states. in their city are sold.

Country schools in Washington State are specializing in warm lunches. teachers are trained in household arts and the school lunch is used not only to better the physical condition of the pupils but to teach domestic science.

A free moving picture show is given every night at the Public High School of Santa Rosa, Cal.

We quote one paragraph to show what Hopewell, Pictou County, is doing.

With the co-operation of the "Good Fellowship Circle" we have started a promised to help us, in turn, each Friday, until we get well started. During the than hour part A.D. Wayshape has promised to take charge of the boys giving sewing hour Rev. A. D. Wauchope has promised to take charge of the boys giving them manufacture. We are going to have our them manual training or something of that nature. We are going to have our in the spring; and have begun preparing for it.

Yours very sincerely, N. J. Sinclair, Hopewell, N. S.

Rural Science Bulletin.

Vol. II.

TRURO, 17 FEBRUARY, 1916.

No. 4

Editor: L. A. DeWOLFE, M. Sc., Normal College, Truro, Nova Scotia.

REPORTS FROM TEACHERS.

Recent reports from teachers have, in general, been encouraging. Difficulties are in the way. But a large number of teachers are overcoming them.

In the December number we spoke of the Phenological Observations. It appears that several teachers kept these last year for their own information; but failed to forward them to the Inspector or the Education Office. Even a few observations are useful if they are correct. We believe every Rural Science teacher will send in the reports this year.

A few teachers who attended Summer School last summer are not living up to rural science requirements. One writes: "None of the children will have home gardens. I am not keeping the Phenological observations. We have not attempted a school library." Another writes: "Neither the people nor the children take any interest," Whose fault is it? The outlook for school gardens is better than it was last year. Several new gardens were plowed last fall. A few old gardens have gone out of existence.

EXHIBITIONS.

The Rural Science Exhibit at the Provincial Exhibition, Halifax, is now assured.

A number of Domestic Science teachers in the provincial towns have expressed their willingness to exhibit their work at Halifax. That is desirable. It would be unfair, however, for such towns to compete against rural schools where no Domestic Science department exists. Children of rural schools must do most of their work at home.

But towns could ship their domestic science exhibits with the garden and nature study exhibits and set them up separately in Halifax. Thus, two of the sub-divisions of the educational exhibit would be: (1) Rural Science exhibit, which includes Domestic Science and Manual Training from rural schools, and (2) Domestic Science and Manual Training from towns where special teachers are provided for these subjects. Towns where no such special teachers are employed would exhibit with the rural schools.

Teachers have asked if they may exhibit their own Nature collections which they have used in school for illustrative purposes. Certainly. Other teachers and other schools can get ideas from such collections. Probably no prizes will be offered for teachers' exhibits. But rewards do not always come in the form of prizes.

NOTICE.

The March Bulletin will contain definite instructions about school gardens. It will suggest the best flowers for each kind of soil; and will also suggest window box material.

If teachers have no good seed catalogs, they should order one two at once. Good ones are those of D. M. Ferry & Co., Windsor, Ontario; and Steele-Briggs Co., Toronto. Try to have these catalogs before the arrival of the March Bulletin.

SCHOOL CONCERTS.

School concerts have their use and their mis-use. Tho purpose of raising money that should be supplied by the trustees.

for a library. Later, the trustees commanded her to spend If the trustees wished a flag pole, they should have bought it. But they cannot compel the teacher to buy it.

It is a common occurrence for teachers to raise money should they do so. These are the property of the section, and hold be supplied by the section. It is prefectly legitimate to summer care of school gardens, etc., where the section is not supplying these accessories even where they are not imperative.]

Teachers should insist upon their rights. If the Inspector responsibilities. While the teacher shoulders burdens not her own she will be expected to do so.

SEEDS FROM THE EXPERIMENTAL FARM.

Superintendent Baird, Experimental Farm, Nappan, will send each rural science teacher a small bag of seed potatoes and some seed grain this spring. He asks that teachers insist on having the children report the results in accordance with his request. Schools last year in several cases neglected to do this. It is dishonest to accept these seeds, and not fulfil the conditions.

Here is a quotation from one of Prof. Baird's recent letters. Won't the teachers concerned try to comply with his request?

"I may say a number of the children have returned their reports, filled in very nicely indeed and some of them are most creditable. However, a large percentage of them did not. If it is possible for us to get them, these reports would be very valuable to us, in so far as we would be able to ascertain to a considerable extent the various varieties suitable to that district, which could enable us to judge what varieties to send to the farmers in the various districts making applications. I would appreciate it very much if you would in some way get in touch with these teachers and ask them to see if it is possible for all the students to fill in all the reports as fully as they can, giving me what information they can."

THE WORK ABROAD.

All would do well to read the two following extracts from the Bulletins issued by the Department of the Interior, Bureau of Education, Washington, U. S. A.

RURAL SCHOOL LETTER NO. 17.

A Personal Letter to keep Boys in School.

Superintendent McKillop, of Lovelock, Nevada, attempts to attract boys and girls back to school by personal letters in which he sums up briefly but definitely a few of the arguments in favor of education most likely to appeal to boys and girls of the restless age in city or country. The letter to boys given herewith, not because it is necessarily a model, but to cause it typifies the newer conception of the school's duty to the community and at the same time illustrates a practical method of making the school known to those who most need it—the boys and girls of 14 to 16 years of age. The letter to boys follows:—

Are you going to be one of the Headless Army? It's in the majority and spends its time taking directions and a daily pittance from the leading and ruling minority whose heads, fixed on their own shoulders, do the thinking and planning that carry the world along. The majority draw pay for the work they can get out of their muscles and can hope for no great change in the future; the minority use their physical capacity as a supplement to their mental capacity and expect all things of their futures. The dividing line is training, another name for Education. In youth now, you decide how you will be classified later on. This letter

is written to remind you that it is up to you now to decide for which group this year will help fit you and to point to the open doors of the High School.

You want to earn something at once. Let's measure, if possible, the "dollars and cents" value of going to school. In the United States as a whole, taking conditions. tions by and large the uneducated man can not hope for more than \$1.50 a day for 300 working days, or \$450 a year. We'll give him the generous allowance of man. What is his average salary? Beginning with the President of the United States and the presidents of companies banks, universities, States and taking into account the presidents of companies, banks, universities, and is and taking into account the presidents of companies, banks, universities, and is a language doctors, the majority and institutions of all sorts, their lesser officials, lawyers, doctors, the majority of months. of merchants engineers, ministers, real estate and insurance men, educated farmers, master artisans and teachers we shall find that \$1,000 a year is a low estimated artisans and teachers we shall find that \$1,000 a year is a low estimated. timate for the average income of the educated men. It is undeniably true that the educated man wears out more slowly and lives longer as well as more comfortable the educated man wears out more slowly and lives longer as well as more comfortable the educated man wears out more slowly and lives longer as well as more comfortable the educated man wears out more slowly and lives longer as well as more comfortable the educated man wears out more slowly and lives longer as well as more comfortable the educated man wears out more slowly and lives longer as well as more comfortable the educated man wears out more slowly and lives longer as well as more comfortable the educated man wears out more slowly and lives longer as well as more comfortable the educated man wears out more slowly and lives longer as well as more comfortable the educated man wears out more slowly and lives longer as well as more comfortable the educated man wears out more slowly and lives longer as well as more comfortable the educated man wears out more slowly and lives longer as well as more comfortable the educated man wears out more slowly and lives longer the educated man wears out more slowly and lives longer the educated man wears out more slowly and lives longer the educated man wears out more slowly and lives longer the educated man wears of the educ ably than the uneducated, but for the sake of the argument, we'll allow him, too, and the uneducated, but for the sake of the argument, we'll allow him, too, and the sake of the argument, we'll allow him, too, and the sake of the argument, we'll allow him, too, and the sake of the argument, we'll allow him, too, and the sake of the argument, we'll allow him, too, and the sake of the argument, we'll allow him, too, and the sake of the argument, we'll allow him, too, and the sake of the argument, we'll allow him, too, and the sake of the argument, we'll allow him, too, and the sake of the argument, we'll allow him, too, and the sake of the argument, we'll allow him, too, and the sake of the argument, we'll allow him, too, and the sake of the argument, we'll allow him, too, and the sake of the argument, we'll allow him, too, and the sake of the argument, we'll allow him, too, and the sake of the argument, we'll allow him, too, and the sake of the argument, we'll allow him, too, and the sake of the argument, we'll allow him, too, and the sake of the argument, we'll allow him, too, and the sake of the argument, which is the sake of the argument. a 40 year period of activity. Total income, \$40,000; difference in his favor, \$22,000. the average difference in education is less than 2,200 days. But calling it 2,200, the average difference in education is less than 2,200 days. the average return during a lifetime for each day in school is \$10; ten dollars a day.

RURAL SCHOOL LETTER NO. 13.

What a One-Room Rural School is Doing in Industrial Education.

The work in sewing is especially interesting. The pupils keep notebooks of their work. They write up their notes at the close of each resson and their notebooks the work they are doing, so far as they can. This includes samples of fancy and plain patching, the various stitching, hemming, darning, etc. The fancy and plain patching and fancy appropriate the content of the content The complete articles, such as plain and fancy aprons and plain dresses, are taken home and used as finished.

Work. A great deal of it will be experimental work, such as the testing of seeds, testing A great deal of it will be experimental work, such as the forbitte water-holding capacity of various soils, a study of soils, testing of milk for butter fat, study of plants, etc.

The school has a kitchen cabinet, a 3-hole oil stove with oven, a set of dishes, and Various utensils necessary to carry on this work. Other equipments will phase of solutions time. The people of the district are interested in this phase of solutions. It will set as leaven phase of school work as much as they are in the book part. It will set as leaven not only in the county. It means the beginning of not only in the community but also in the county. It means the beginning of the introduction the community but also in the county work to supplement the work the introduction of some practical phases of school work to supplement the work

The present teacher is serving her first year in the school. She is a high-school graduate of normal-training course with four years' experience. She has never way making but she has entered into the life work of the community, in this way making the community of the lack of experience of farm life. way making up to a ver, large degree for the lack of experience of farm life.

FREE SCHOOL EXHIBITS.

(List compiled by Principal R. H. Wetmore, Milton,

1. Samples of Fertilizers and Animal Products:—

Morris & Co., Packers, Chicago, Ill. 2. Cocoa & Chocolate Exhibit:—

Walter Baker & Co., Dorchester, Mass. Lime—Sulphur Solution and other Sprays: The Vreeland Chemical Co., New York, N. Y.

and several interesting circulars on spraying, etc.]

 Breakfast Food Exhibit:— Postum Cereal Co., Battle Creek, Mich.

5. Lowney's Educational Exhibit:— Walter M. Lowney Co., Boston, Mass.

6. Baking Powder:—
The Royal Baking Powder Co., William & Fulton Sts.,
New York, N. Y.

7. Corn and its Products:—
The American Manufacturers' Association, Chicago, Ill.

8. Wheat and its Products:—
The Washburn Crosby Co., Minneapolis, Minn.

9. Samples of Oils:—
The Standard Oil Co., New York, N. Y.

10. Asbestos:—
The Johns-Manville Co., 201 Claybourn St., Milwaukee,
Wis.

Spices:—
 McCormick & Co., Baltimore, Md.
 [This company sends a useful and educative pamphlet, but no exh bit.]

2. Steel:— The Illinois Steel Co., Chicago, Ill.

13. Sugar:—
The American Sugar Refining Co., New York, N. Y.
[This company issues two pamphlets, but no exhibit.]

14. Tapioca:— The Minute Tapioca Co., Orange, Mass.

15. Varnish:— Berry Bros., Detroit, Mich.

16. Carborundum:— The Carborundum Co., Niagara Falls, N. Y.

17. Cement:—
The Portland Cement Works, 140 S. Dearborn St.,
Chicago, Ill.

18. Cocoa:— The Hershey Chocolate Co., Hershey, Pa.

19. Cotton:—also an exhibit of Needles:— The Spool Cotton Co., 315, 4th Ave., cor. 24th New York, N. Y.

20. Fertilizers:— Swift Co., Chicago, Ill.

21. Grain:— Commissioner of Immigration, Winnipeg, Can.

22. Grinding Stones:—
The Pike Manufacturing Co., Littleton, N. H.

23. Malted Milk:— The Horlick's Malted Milk Co., Racine, Wis. 24. Paint and Varnish:— The Sherwin-Williams Co., 601 Canal Road, Cleveland, Ohio.

25. Pencils:-

(1)Joseph Dixon Crucible Co., 501 Victoria Bldg., St., Louis, Mo.

(2) Eberhard Faber, 37 Greenpoint Ave., Brooklyn, N. Y.

26.

Esterbrook Steel Pen Mfg. Co., Cambden, N. J. Potash:--

The German Kali Works, 1901 McCormick Bldg., Chicago, III.

28. Salt:-

The Worcester Salt Co., 71 Murray St., New York, N. Y.

M. Heminway Co., 890 Broadway, N. Y.

Nos. 1, 7, 8, 9, and 21 are extra good.

QUOTATIONS FROM LETTERS.

"I have started a Sewing Club with my girls. It gives me a chance to get better acquainted with them.

"The Exhibition did a great deal to awaken interest in the school."

"In connexion with our Hiawatha reading lesson, we made a Hiawatha table, covered with mosses, trees, etc."

"In the reading lesson "An August Reverie," we tried to find all the things ferns for do. We also wrote compositions describing our botany walks, used our ferns for drawing lessons, etc.

Practically every boy and girl has at least one cocoon at home.' "Every department, from the primary up, is enthusiastic over caterpillars.

College for identification. The children have found out a number of interesting data for themselves, and we are keeping a record of each insect."

"The Methodist minister of this place has organized a sort of 'Community Center, in his church: and has asked me to so-operate with him. At my suggestion have do have do his church: and has asked me to so-operate with him. One evening we have decided on 'the kitchen garden' for our first evening's topic. One evening ach month decided on 'the kitchen garden' for our first evening's topic. each month will be devoted to questions of interest to rural home life.

"I have the back of my room lined with tables containing Industrial collections. They certainly awaken interest among the children.'

Teachers should get helpful hints from this extract from a recent letter.

We attempt to keep the room cheerful with plants, pictures to illustrate lessons, modern maps of the various countries studied, a book table, where there geographical maps of the various doubt and magazines, a dictionary, parts of are go modern maps of the various countries studied, a book table, where there encyclographical magazines, nature books and magazines, a dictionary, parts of paper clippings. This table may be visited, when a pupil's work for a certain period is finished; and from it he selects what he wishes to read. I find this much better than the collection of books of fiction which I kept two years ago. this table is a large sheet of drawing paper which we use as a bulletin board. On this the children pin pictures illustrating the growth and gathering of the products of different countries, and small clippings of interest."

Here is a quotation from a letter written by a rate payer in one of our small towns. Evidently he is more interested than the teachers are. Teachers, won't you take a hint from this?

"Can you suggest any way that we can get our school children to grow flowers either at home or about the school grounds? Both homes and school grounds are sorely in need of them."

FOR TEACHERS AND PUPILS.

[From the Canadian Countryman.]

Taking School Work to the Farm.

One of the chief problems the teacher meets in introducing the study of agriculture into the school is the time problem.

She will find the solution of this in the co-relation of agriculture with other subjects on the curriculum and in the lating of some of those subjects a little more closely to the lives of the pupils.

Especially is this true in arithmetic. And she has excellent material to work with. She has pupils who are used to doing work and the material at hand with which to make the work practical.

A part of the course in agriculture outlined in the register is Farm Arithmetic. In the course of study for the third and fourth classes as antifourth classes, as outlined in our well-thumbed Blue Book, are mentioned problems related to the lives of the pupils and personal accounts.

GIVE PUPILS REAL PROBLEMS.

Just let them have the real thing. Instead of having them the cost of shingling and find the cost of shingling and painting imaginary buildings let the get at the school word line imaginary buildings let them get at the school woodshed with rulers and notebooks and pencils. Let them be a school woodshed with rulers and notebooks and pencils. Let them bring problems from home on the cost of feeding stock the account of the control of the c of feeding stock, the capacity of bins, mows, silos, cisterns,

Here are some suggestions for problems. The children will k of lots more. think of lots more:-

Make out a bill for the last list of groceries your mother sent for.

- (2)Keep an account for her of all she sells on the markets.
- (3)Reckon the cost of the last cake you baked.
- (4)What will it cost for oats for your horses this winter?
- (5)Keep a poultry account and an egg record.
- (6)Keep a personal account for a year.
- (7)Keep an account of what your parents spend for you for clothes, school books, and so forth.
 - How much wood is there in the school woodpile?
- Find the cost of painting the school floor. What would it cost to put in a new hardwood floor?
- (10) What would it cost to put metallic lining on the Walls or to kalsomine them?
 - (11) Find the cost of papering your bedroom at home.
- Find the cost of plastering your kitchen. That would be good homework, wouldn't it?
- Find the cost of the school fence. Get prices from the secretary-treasurer.
- (14)tise in measurement of rectangles and triangles, board measure, Find the cost of the woodshed. This will give pracshingling, painting and cost of labor.
 - (15)Find the capacity of several bins in your granary.
 - (16)How much hay is there in one of your haymows?
 - (17)How many gallons of water does your cistern hold?
 - (18)What did it cost to build your silo?
 - (19)What did it cost to fill it the last time?

WORK THAT HAS BEEN PROVEN.

To these may be added dairy problems, problems on cost of cultivation and so forth.

We have tried out almost all this work. I think it takes no extra time from the teacher. You'll find the pupils will ask a lot more questions about the work they are doing than about the imaginary book problems and of course that is what you want. As well as being more practical it gives them a much better training, which is the most important part of the work of finding out prices work. They can do most of the work of finding out prices and an arms will help. It's a and so on. Let them. And the parents will help. It's a good way to get them interested.

Rural Science Bulletin.

Vol II.

TRURO, 15 MARCH, 1916.

No. 5

Editor L. A. DeWOLFE, M. Sc., Normal College, Truro, Nova Scotia.

ANNOUNCEMENT.

Tho this is a School Garden number, the flower-combinations on the following pages will be serviceable on home grounds. Moreover, the lack of definite instructions on vegetable culture does not indicate that this is the less important side of garden work. In the home gardens, vegetables will be the prominent feature. In this, the parents can supplement the instruction given by the teacher. Beautify both school grounds and home grounds. But make the home garden profitable, for parents believe in profits more than in beauty.

SCHOOL GARDENS.

For school grounds that are too rocky to be plowed, a very simple treatment will improve them wonderfully. Such grounds usually have generous patches of earth among the rocks. Early this spring (since it was not done last fall), have ground dug with a pick or a spade. Then, it can be levelled with a garden rake. About May 24th, mix the seeds of Shirley Poppies, Bachelor's Buttons and Sweet William, and scatter them broad-cast over the ground; and gently rake the ground to cover them. They must not be covered deeply. Unless the soil is naturally wet, immediately before a rain is the best time to plant them.

Plant at the rate of a five-cent packet of each for every fifty square feet. Nearly everyone plants seeds too thickly.

We have suggested these three because they "seed them selves." When once planted, therefore, they will continue come up year after year. Moreover, the poppies bloom comparatively early; and the bachelor's buttons will continue is bloom long after the others have gone. The Sweet William is perennial. It will not bloom the first year. But when once established, it will continue to grow and bloom in spite of solute neglect. The ground will need an annual digging to give the poppies and bachelor's buttons a chance to get above the grass and weeds.

These plants grow two or three feet tall. Therefore they will hide the rocks. From the public road, the school grounds can be made to look like one continuous flower garden.

These are not the only desirable flowers to plant. come near the ideal "lazy-man's garden." The teacher who has slightly greater ambitions would do well to plant on such grounds Dahlias and Cosmos. Tubers of the former might be donated by someone in the section who grows them. multiply very rapidly. If Cosmos are planted, be sure to get the early flowering dwarf varieties. It is best to start them in the house; and set them out about two feet apart early in June. They are as easily transplanted as tomatoes. Petunias and Snap-dragons are also excellent for planting among the rocks.

In cases where the rocks are very large, four or five feet high, plant sunflowers or sweet peas in front of them, or a climber such as wild cucumber will soon cover them.

FLOWER BORDERS.

Grounds that can be plowed allow more formal gardening. But even here, don't attempt too much. A flower border along one side of the school grounds is much better than a rectangular garden somewhere else. Get a farmer's advice on the quality of the soil.

A background of shrubbery, such as Lilacs, Wild Roses, or Blackberries, shows a flower border to good advantage. This, however, is not absolutely necessary. Those who have ideas will use them. The beginner, however, would welcome concrete suggestions. One or two follow.

Plow a strip eight feet wide along one side of the school grounds. Choose the side with best soil and good exposure to sunlight. If this strip is one hundred feet long, it may conveniently be divided into twenty rectangular blocks each 4x10. In the ten blocks nearest the fence, plant perennials. In front of these, plant annuals. That will give a four foot strip (annuals) to be plowed each year; and a four foot strip (perennials) to be hoed, but not plowed.

Possibly the ten most satisfactory perennials are:

Hollyhocks, Canterbury Bells, Foxgloves, Sweet William, Mullein Pink (A. acris) and Oriental Poppy.

Plant them in the order named. in the order named, the following ten annuals:— In front of these plant,

Peony-flowered Poppy, Bachelor's Buttons, California Poppy and Baby Golden

If this arrangement is followed, plants whose colors will not harmonize are either kept apart or will flower at different season front of taller ones. It will also bring shorter flowers in front of taller ones.

For the first year, annuals should be planted with the perennials in the back for the first year, annuals should be planted with the perennials in the back row; for the first year, annuals should be planted with the perenmais in the back. Where possible, it would be better to get perennial roots from some old fashioned garden in the neighborhood, and thus save a year. Next best is to start the perennial seeds in an out of the way corner, and transplant into the permanent border the second spring. In such case, the whole border will be planted to annuals the first season.

For teachers who desire to introduce a variety of new flowers, or plant a more extensive border, the following plants all do well in Nova Scotia. We shall number them in a convenient order for planting. The "best ten" are repeated in this larger border. In every case, the top one is the annual to be planted next the fence the first year; the middle one is the perennial to follow on the same ground the second year; the bottom one is a suitable annual for successive planting in front year after year. By the time the soil requires a rotation, better combinations will have been discovered.

Sunflowers. Hollyhock. Zinnias.

Coreopsis. Foxgloves. Nasturtium. Cosmos. Larkspur. Candytuft.

Snapdragon. Monkshood. Stocks.

5 Salpiglossis. Canterbury Bell. Verbena.

Marigolds. Columbine. Sweet Alyssum.

Bachelor's Buttons. Phlox (perennial). Scarlet Flax.

Phlox Drummondi. Sweet William. Viscaria.

MulleinPink(Agrostemma) Petunia. Aster.

10 Giant Spider Plant. Shasta Daisies. Linaria.

13

22

11 Clarkia. Forget-me-nots. Mignonette.

12 Chinese Lantern. Polemonium. Scarlet Poppies.

Godetia Pansy.

Dianthus (annuel). Shirley Poppies. Bouncing Bet (Saponaria). Pryethrum, hybrid rubrum Sweet Rocket. Gaillardia (annual). Nemesia.

16 Sweet Peas. African Orange Daisy.

Kochia. Anchusa. California Poppy

18 Salvia. Clove Pinks. Marigolds.

19 Gypsophila (annual). Campanula Persicifolia.

Larkspur (annual). Gaillardia (perennial) Aster (Burpee's Lav. Gem. Petunia (purple).

21 Gourds. Chrys. "Morning Star."

Nigella Iceland Poppy. Marigold (Legion of Honor)Salpiglossis.

Prince's Feather. Lychnis.

Helichrysum. Perennial Flax. Sweet Scabious.

Larkspur (annual). Geum (Mrs Bradshaw). Schizanthus.

26 Acroclinium. Peony. Godetia.

27 Calliopsis. Scabiosa Caucasia Ageratum.

28 Bacheloni D	29	30
Bachelor's Buttons. Monarda Didyma. Pinks (approximate)	Calendula. Lupinus.	Zinnia.
(umuai).	Petunia.	Doronicum. Snapdragon.
31 Dahlia	32	33
Dahlia. Gladiolus.	Sunflowers. Aster (fall)	Shirley Poppies. Oriental Poppies.
34	Baby Golden Glow.	Dwarf Snapdragon.
Scabious.	35	36
Coreopsis (perennial). Coreopsis (annual).	Nicotiana. Bleeding Heart. Bachelor's Buttons.	Four O'clock. Golden Glow, Chinese Lantern.
37	38	
Cosmos. Valeriana offi Mallow		ria. ssum saxatile. ley Poppy.

To the teacher who wishes to work on a small scale, this border, thirty-eight sections in length, is bewildering. She may, however, take a few successive sections from any part that appeals to her, and still avoid very bad combinations. For example, 31, 32, 33, 34, 35 would make a creditable showing.

FLOWERS FOR TRYING SITUATIONS.

It may happen that someone wishes a flower border on the north side of a building or under the shade of trees. If so, we suggest this perennial one:

	or citizati Oile.	
Cinnamon Fern.	2	3
Virg. Cowslip (Mertensia)	Aquilegia (long spurred l	nybrids). Foxglove.
S.	. Lify-of-the-valley.	Heuchera Sanguinea.
Solomon's Seal.	5	6
Bleeding Heart.	Hay-scented Fern.	Monkshood.
	Aquilegia.	Tiger Lilies.
	Monanda Did	
	Monarda Didyma. Doronicum.	
Th.	Doromcum.	

For very sandy soil, possibly the most satisfactory flowers Poppy, Acs, Linaria Canadensis, Prairie Sunflower, California Poppy, African Orange Daisy and Portulaca. Where the soil dries, African Orange Daisy and with hars until they dries rapidly, seeds might be covered with bags until they germinate.

GARDENS AT SMALL COST.

The cheapest gardens are the wild-flower gardens. Many of our wild plants will stand transplanting. Those growing nature. naturally in the shade should be left in the shade. Our native ferns talls us a plant's likes and dislikes and the shade should be left in the shade.

Tho nature tells us a plant's likes and dislikes are widely varying conditions. dislikes, a few plants will grow under widely varying conditions. For example, Blue-flag and Marsh Marigold grow wild in very wet plants. wet places; but they do well in ordinary gardens.

"Bulletin." Answers to questions crowded out. Will appear in the April (To be handed promptly on its receipt by the Secretary of every School Board to each Teacher employed within the School Section).

LOCAL "NATURE" OBSERVATIONS.

(To be sent in to the Inspector with the Returns in February and July).

This sheet is provided for the purpose of aiding teachers to interest their pupils in observing the times of the regular procession of natural phenomena each season, the First, it may help the teacher in doing some of the "Nature" lesson work of the Course of Study; Secondly, it may aid in procuring valuable information for the locality and province. Two copies are provided for real to the copies are provided for the copies are Two copies are provided for each teacher who wishes to conduct such observations, one to be preserved as the property of the section for reference from year to year; the other to be sent in with the Return to the Inspector, who will transmit it to the Superintendent for examination and compilation.

What is desired is to have recorded in these forms, the dates of the first leafing, flowering and fruiting of plants and trees; the first appearance in the locality of birds migrating north in spring or south in autumn, etc. While the objects spectified here are given so as to each to such a such as the s fied here are given so as to enable comparison to be made between the different sections of the Province, it is very desirable that other local phenomena of a similar kind be recorded. Every locality has a flare formula phenomena of a similar kind be recorded. kind be recorded. Every locality has a flora, fauna, climate, etc., more or afe distinctly its own; and the more common trees, shrubs, plants, crops, etc., the those which will be most valuable from a local point of view in comparing the characteristics of a series of second

characteristics of a series of seasons.

Teachers will find it one of the most convenient means for the stimulation of pupils in observing all natural phenomena when going to and from the school, and some pupils radiate as far as two miles from the going to and from the school, and some pupils radiate as far as two miles from the school room. The "nature study" under these conditions would thus be undertaken at the most convenient time, without encroaching on school house, while on the attention is the heak without encroaching on school hours; while on the other hand it will tend to break up the monotony of school travel, fill an idle or wearisome walk with interest, and be one of the most valuable forms of educational discipline. be one of the most valuable forms of educational discipline. The eyes of a whole school daily passing over the school routes will discipline. school daily passing over the school routes will let very little escape notice edit pecially if the first observer of each annually recurring phenomenon receives credit as the first observer of it for the year. The charming phenomenon receives credit as the first observer of it for the year. as the first observer of each annually recurring phenomenon receives as the facts must be demonstrated by the most undoubted evidence, such as the bringing of the specimens to the school when possible or necessary.

To all observers the following most important, most essential principle of the inc is emphasized. Better no details and income and i cording is emphasized; Better no date, no record, than a wrong one or a doubtful one. Sports out of season due to record, the a wrong one or a doubtful one. ful one. Sports out of season due to very local conditions not common to at least a small field, should not be recorded except and the state of the season due to very local conditions not common to at least a small field, should not be recorded except and the state of the season due to very local conditions not common to at least a small field, should not be recorded except and the state of the season due to very local conditions not common to at least at least a small field, should not be recorded except and the season due to very local conditions not common to at least a small field, should not be recorded except and the season due to very local conditions not common to at least a small field. corded for the purposes of compilation with those of other localities should be the first of the many of its kind following immediately of the localities should butter. first of the many of its kind following immediately after it. For instance, a butter fly emerging from its chrysolic in a challenge in a chal fly emerging from its chrysalis in a sheltered cranny by a southern window ju January would not be an indication of the control by a southern windirary January would not be an indication of the general climate, but of the peculiarly heated nook in which the chrysalis was sholtand. heated nook in which the chrysalis was sheltered; nor would a flower in a semi-artificial, warm shelter, give the data required. When would a flower in a season artificial, warm shelter, give the date required. When these sports out of season occur, they might also be recorded but within a need to be needed but within a need to be needed but within a needed but wit occur, they might also be recorded, but within a parenthesis to indicate the peeu-

These schedules should be sent in to the Inspector with the school returns in and February, containing the observations and returns in a school return in a school returns in a school return in a school return in a school returns in a school return in a sc July and February, containing the observations made during the Spring (January to June) and the Fall (June to December 1997) to June) and the Fall (June to December respectively).

Remember to fill in carefully and distinctly the date, locality, and of the ks at the head of the schedule on the next page. for if the date, date or the blanks at the head of the schedule on the next page; for if either the date paper locality or the name of the responsible compiler should be schedule paper. locality or the name of the responsible compiler should be omitted the whole paper is worthless and cannot be bound up for preservation in the volume of The phenological Observations.

By the aid of the table given at the top of pages 3 and 4, the date, such as 24th of May for instance, can be readily and as and 4, the date, such as the 24th of May for instance, can be readily and accurately converted into the annual date, "the 144th day of the year" by adding the standard converted in the standard date, "the 144th day of the year" by adding the standard date, "the standard annual date, "the 144th day of the year," by adding the day of the month this to the annual date of the last day of the preceding month (1) and (1) and (1) are the contract of the month this to the annual date of the last day of the preceding month (1) and (1) are the contract of the month (1) are the contract of the to the annual date of the last day of the preceding month (April in this case), and of the month sthus 24+120=144. The annual date can be briefly recorded, and it is the only kind of dating which can be conveniently averaged in phenolecular in the when the compiler is quite certain that he or she can make the conversion without error, day of the year instead of the day of the month. day of the year instead of the day of the month will be preferred in the record-

PHENOLOGICAL OBSERVATIONS, CANADA. (1916 Schedule).

(1516 Schedule).		
Province	y to Dece District	ember, 19)
The estimated length and breadth of the locality within observations were made	which thes. Esti	e following mated disevel
The most central Post Office of the locality or region		
Name and Address of the Teacher or other Compiler of the Observations responsible for their accuracy.	When First Seen.	When Becoming Common.
Nova Scotia Phenochrons. 1916 is a Leap Year.		
(Wild Plants, etc.—Nomenclature as in "Spotton" or "Gray's Manual"). 1. Alder (Alnus incana), catkin shedding pollen. Aspen (Populus tremuloides), shedding pollen. Mayflower (Epigaea repens), flowering. Field Horsetail (Equisetum arvense), shedding spores. Blood-root (Sanguinaria Canadensis), flowering. White Violet (Viola blanda), flowering. Blue Violet (Viola palmata, cucullata), flowering. Hepatica (H. triloba etc.), flowering. Red Maple (Acer rubrum), flower shedding pollen. Strawberry (Fragaria Virginiana), flowering. 12. Dandelion (Taraxacum offinicale), flowering. Adder's Tongue Lily (Erythronium Am.), flowering. Gold Thread (Coptis trifolia), flowering. Ground Ivy (Nepeta Glechoma), flowering. Indian Pear (Amelanchier Canadensis,) flowering. 18. Wild Red Cherry (Prunus Pennsylvanica), flowering. Fruit ripe. 20. Wild Red Cherry (Prunus Pennsylvanica), flowering. Truit ripe. 21. Blueberry (Vaccinium Can. and Penn.), flowering. Truit ripe. 22. Tall Buttercup (Ranunculus acris), flowering. 23. Tall Buttercup (Ranunculus acris), flowering. 24. Creeping Buttercup (R. repens), flowering. 26. Rhodora (Rhododendron Rhodora), flowering.		

PHENOLOGICAL OBSERVATIONS:—(Continued).

an. Teb. March	31 59 90	April May June	120 151 181	Aug. Sept.	243 273	ch mon Oct. Nov. Dec.	334 365	When First Seen.	When Becom
For Lea	p years	increas J 1916	anuary	number , by 1] eap Yea					B.
29. St Cl 30. Cl 31. Mag 32. La 33. Bl 34. Tr 35. La 36. La 37. Esc 38. So 40. YR 42. RY 44. HH 44. HH 44. HH 44. HH 45. HH 46. HP 47. Ph 48. HH 49. CF	ar Flow intonia arsh Carsh Call Vis Slaue-eyed winflow wile Laurambkill nglish Flarlet fr lue Flag x-Eye I flow P aspberr aspberr ellow R (igh Bla itcher Fleal-All common all Dan were ellow and interes in the call Call Call Call Call Call Call Call	ering ond Lily y (Rubu y (Rubu y (Rubu ckberry ckberry Plant (Sa (Brunell Wild Ro delion (I delion (I eave	ntalis Activated the control of the	merican. alis), flo tris), flo tris), flo lium aca chium ar ealis), flo aca), flov faegus ox rataegus rata	ay, now wering. wering. lely, floor wering. lely flow wering. lely, flow wering. a), flow were were were were were were were we	wering wering a), flow a), flow canther vering ring ring flowering flowering flowering sappears appears appears appears wering appears appe	rering re		
* 0 ***				ated Pla			ı	ı	
55. E 56. 57. C	Black C	rant (Ri urrant (I Prunus !	Ribes ni	igrum), f f s), flower	lowerin ruit rip ing	g e			
59. F 60. A 61. I 62. V 63. I 64.	Plum (PApple (I Jilac (Sy White C Red Clo Fimothy	runus do Pyrus Ma yringa vi llover (T ver (Trib y (Phleur	omestica alus), fl ulgaris) rifolium folium prate	a), flowe owering, , flowering n repens pratense ense), flo	ring	ing			
00. 1				_					
00. 1		(F	arming	g Operat	tions, e	tc.)			

PHENOLOGICAL OBSERVATIONS—(Continued).

	- Control	incu).	
69. 70. 71. 72.	Shearing of Sheep Hay Cutting Grain Cutting Potato Digging	A	
	(Meteorological Phenomena).	(a)	(b)
73. 74. 75. 76. 77. 78. 79. 80.	Opening of (a) Rivers, (b) Lakes without currents Last Snow (a) to whiten ground, (b) to fly in air Last Spring Frost (a) "hard" (b) "hoar". Water in streams, rivers, etc (a) highest, (b) lowest First Autumn Frost, (a) "hoar" (b) "hard". First Snow (a) to fly in air, (b) to whiten ground Closing of (a) Lakes without currents, (b) Rivers Number of Thunder Storms (with dates of each)		
Day ,	of year corresponding to the last day of each month.	. 50	<u> </u>
Feb.	31 April 120 July 212 Oct 304	Going North or coming in Spring	Going South or leaving in Fall.
889. 890. 912. 98. 95. 96. 97. 98. 96. 97. 98. 96.	(Migration of Birds, etc.) Wild Duck 1.nigrating. Wild Geese migrating. Song Sparrow (Melospiza fascuata). American Robin (Turdus migratorius) Slate coloured Snow Bird (Junco hiemalis). Spotted Sand Piper (Actitis macularia). Meadow Lark (Sturnella magna). Kingfisher (Ceryle Alcyon). Yellow Crowned Warbler (Dendroeca coronata). Summer Yellow Bird (Dendroeca aestiva). White Throated Sparrow (Zonotrichia alba). Humming Bird (Trochilus Colubris). King Bird (Tyrannus Carolinensis). Bobolink (Dolchonyx oryzivorous). American Gold Finch (Spinus tristis). American Redstart (Setophaga ruticilla). Cedar Waxwing (Ampelis cedrorum). Night Hawk (Chordeiles Virginianus). Piping of Frogs. Appearance of Snakes.		

(Other Observations or Remarks.

101. Senecio Jacobaea (St. James Ragwort); Is it found within the school sections;

162. The Brown Tail Moth? etc.

Phenological Schedules.

It has been decided to have the schedules of observations henceforward sent in twice a year (with the semi-annual returns). This arrangement will enable the Education Department more easily to compile the information in periods of the calendar year so as to be more readily comparable with phenological observations in other countries, and with the voluminous meteorological statistics collected, compiled and published by the Dominion.

The schedule sent in at the end of the first half of the school year is intended to cover the time from the 1st of July to the end of December—thus completing the Calendar year.

The schedule sent in at the end of the school year in July is intended to cover the observations from the 1st of January to the end of June.

Where the same teacher is employed in the section during the whole calendar year, the schedule sent in during the first week of February is intended to cover the whole calendar year, from the 1st of January to the 31st of December. Such a schedule will be complete in itself for the whole calendar year, and the fact of its repeating the contents of the June schedule will be no inconvenience to the compilers, while it will reflect favorably on the teacher.

This course should be followed by a teacher new to the section, provided the previous teacher left the record on file or in the register. Whenever the observations for the Calendar year can be given complete, there is an advantage in giving it Complete in the schedule sent in with the February returns.

A schedule without the half year or year which it covers being entered in the FIRST line of the second page, or without the compiler's name and address must be rejected—no matter how good the observations may appear.

PHENOLOGICAL OBSERVATIONS.

List of Schools sending in Schedules of Local Observations for the Half Year ended December, 1915.

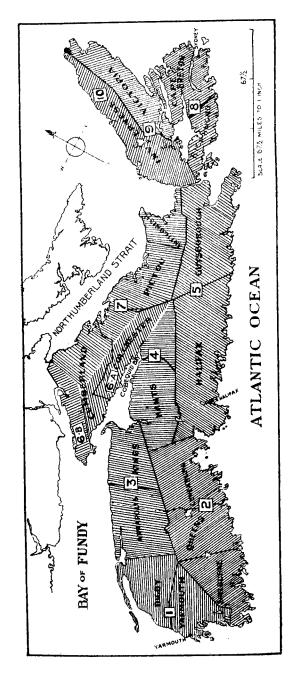
The teachers of Nova Scotia have already acquired a reputation beyond those of any other part of America for their voluntary devotion to and success in the cultivation of the observing faculties of the pupils under their charge. And our first line of biologists, a few widely known already in the world, has made its appearance.

(1) The three columns on the next page give respectively, the names of the teachers, (2) the names of the school sections, and (3) the numbers of observations recorded.

The number of observations generally indicates the interest taken in the work by the respective schools. Even a Accurate observations are of value as scientific documents. Accurate and full schedules are not only more valuable from a scientific point of view, but indicate generally a strong educational interest in the study of Nature in the school.

The Province is divided into its main climate slopes or Slopes, not always coterminous with the boundaries of counties. such as (a) the coast belt, (b) the low inland belt, and (c) the high inland belt, as below:—

λī	a orej de seron i			
No.	Regions or Slopes.		Belt	ts.
,	I. Yarmouth and Digby Counties,	(a)) Low Inlands, (c) High
II I	Shelburne Queens & Lunan'a Cos	44	Inlands.	44
	t and range countres,	(a)	polis Vall	o) North Mt., (c) Anna- ley (d) Cornwallis Val-
1/	Hants and Colchester Counties,	(a)	ley, (e) So Coast, (b)	outh Mt. Low Inlands, (c) High
V	LA Halifax and Guyeboro Counties		Inlands.	"
171	Chiannas Ci		it 9t	44
- V(I)	North'rland Ste Slone (to the N'h)		14 .46	**
Įχ	Alchmond & Cane Broton Cole	٠.	16 16	44
X	Richmond & Cape Breton Co's., Bras d'Or Slope (to the southe't), Inverness Slope (to Gulf, N.W.),		44 44	44
	Slope (to Gulf, N.W.),	•	14	14



THE TEN PHENOLOGICAL REGIONS OF NOVA SCOTIA.

REGION II.	REGION VII
Shelburne, Lunenburg and Queens Counties.	Pictou, Antigonish and Cumber- land Counties.
(a) Coast.	(b) Low In.and
R. H. Wetmore Milton 4 Hilda H. Smith Baccaro 186 Alice W. Firth Sandy Point 10 Ida M. Thomas Baccaro 104	L. E. Hickey P'wash Jct 87 Merle Mɛson Mt. William 183
	(c) High In.and.
(c) High Inland. M. I. G. Purney M. dd. Ohio	A. F. Inglis
Beat Centreville 114	REGION VIII.
E.A. Fancey Union Square 56 Flora Mae Ernst Big Lots 106	Richmond and Cape Breton Counties.
REGION III.	(a) Coast.
Annapolis and Kings Counties.	E. A. McKinnon Beaver Cove. 7
(a) Coast. Mildred L. Adams Parker's Cove 16	W. L. Power Boisdale 7 E. J. Cash B.ll's Bridge 13 A. B. King Point Aconi 36 Jean McKay Catalone 11 Mary C. Smith Bateston 9 Rosie Burke Baneline 12 E. C. Somers L'tl. L'raine 6 S. Chisholm Eskasoni 6
K. R. Dawson Grand Pre 8	M. A. McGillivray G. Narrows. 16 C. McKenzie Catalone Gt. 12
RECION IV	(b) Low Inland.
Colchester and Hants Counties.	Lily Boutilier Sandfield 10 W. D. McKenzie Ball's Creek . 13
Edna C. Mor	(c) High Inland.
Edna C. Morse Up. Economy 8 M. A. Wickwire Brooklyn 5 Gertrude M. Chase. Maitland 8	G. Johnstone U.L't'ches C. 21 C. B. McDougall Highlands 24
F (b) Low Inland.	REGION IX. Inverness and Victoria Counties.
	(a) Coast.
O. J. Fu!ton North River 15 J. A. Hines Fort Ellis 6 Grace Phillips Truro Road 6	C. E. Au'Coin Prairie 22 J. B. Morrison N.Gt.St.An's. 46 D. A. MacDonald . S. Lk . Ainslie 9

Comments by the Members of the Compiling Staff on the Phenological Observations Recorded by the Teachers in the Various Regions of the Province.

REGION NO. II.

Queens and Shelburne Counties.

R. H. Wetmore, Compiler.

In Shelburne all reports were from the coast belt. Of these two were exceedingly well done and have many extra interesting details. In general the statistics were but fair in completeness.

In Queens County the teachers in the high inland belt had excellent reports in most cases, with many supplementary entries.

Two papers showed carelessness or lack of care in verifying the children's reports, e.g., one teacher reported the ripe Strawberry being found forty-two days before the first blossom was seen. The same list of dates had others equally impossible. This surely tends to destroy the good work of many efficient and careful teachers in working out the averages should the observation be accidentally included.

Many teachers, I believe, look upon this schedule as a task, while it should be a big incentive and help in the nature work of the schools. If more interest were taken, we should never get some of the carelessness and inaccuracies that show in a few of these returns.

Species No. 1. Two observers of Alnus incana evidently did not wait for the pollen to be falling.

- 3. One reported Mar. 2 for Epigea repens. Of course, such a record is of no value. Occasionally blossoms are found in the autumn. Yet either of these are useless in getting information re the general flowering of the plant.
- 8. Hepatica triloba reported once in Shel. Co., once in North Brookfield, Queens Co.
- 10 & 11. Ripe Strawberries reported being found on Mar. 23rd. We don't publish the teacher's name, this time—perhaps we should.

- 24. Evidently there is a lack of readiness in distinguishing the different buttercups. Possibly some are confusing Ranunculus bulbosus, our commonest buttercup in South Queens, with one of the two on the schedule.
- ing in one section.
- folium. May 10 was reported for seeing Sisyrinchium angusti-Evidently an error in this teacher's report.
- 34, 35, 36. These were also reported, by the above teacher, long before it was possible to find them.

There is such a variation in the reports of Kalmia glauca and Kalmia angustifolia, that I imagine teachers are confusing these.

- 42. One reported Rubus strigosus on April 15.
- leaf showing on trees, and June 12 for trees becoming green generally.
 - 75a. June 2 is rather late for a hard frost.

BIRDS.

In general the birds are very poorly reported. Junco hiemalis is a winter resident with us, as well as a summer redates. This probably accounts for many of the too early winters. A few have been reported this winter. Robins or Juncos seen before March 20 are not migrants.

- 82a. May 31 is too late for Wild Geese to migrate.
- They evidently do not know the bird.
- Myrtle Warbler. The warbler reported on April 15 was probably the
- mentary sheets. They did not seem to recognize it under this
- ¹⁸ a late migrant with us, not being seen commonly until the probably hear the Wilson's Snipe.

REGION III.

Annapolis and Kings Counties.

Miss Merna M. Frank, Compiler.

Thirteen observation schedules were sent me from Kings Co.; six from Cornwallis Valley; one from South Mt.; three from North Mt., and three from Annapolis Valley.

Five of the schedules had many interesting observations,

in addition to the ones asked for.

When copying from the schedules, any dates, which I thought were misleading, I omitted.

Nos. 5 and 8 were reported by only two schools.

Very few reports on birds were given, also on observations from No. 70 to No. 82.

In many cases the teachers were not careful in placing the day of the year directly opposite the name of the observation.

In three instances, the day when first seen, was the same as the day when becoming common, in another the date for becoming common was earlier than the date for when first seen.

A number used the date of the month instead of day of

vear.

REGION NO. IV.

Hants and Colchester Counties.

Miss Estelle Mackenzie, Compiler.

Altho many of the schedules showed accuracy and neatness, there were cases where the compiler found it impossible to tell to which of two observations the date was to be affixed, as it was in line with neither.

Several teachers added additional observations showing they were in the habit of "observing nature" not "filling in the observation list" merely.

REGIONS VI (A) AND VI (B).

Cobequid Slope to South and Chignecto Slope to North West.

Seldon C. Bryson, Compiler.

Of the schedules received most were reasonably accurates only one or two showing carelessness. I should like to point out a few errors for the barrelessness. out a few errors for the benefit of future observers.

The "when-becoming-common" is very unsatisfactory many leaving it blank and some entering such careless dates as a plant "becoming common" a day after it was first seen. Some enter the same dates for both columns; this probably means that when you first saw the plant it was becoming common. In this case it would be better to leave the first column blank, as the purpose of the schedule is not to find out when you first saw a plant, but when it first made its appearance.

Have the pupils on the lookout for each plant. Find out the approximate date of appearance of each plant or bird; get the pupils to tell you and each other where they are likely to find a certain plant first, and then caution them to keep their eyes and ears open. Encourage fishing and hunting trips among the boys, and walking trips among the girls. Above all get your pupils interested—create an enthusiasm—and your

Observations are safe in their hands.

All dates from the Amherst teachers are correspondingly later than those from adjoining sections—sometimes a difference of a month. Probably the city teachers have not so good opportunity for finding plants so early.

One teacher reports only two days difference between the first strawberry blossom and "fruit ripe." Another has June 10th, for blueberry blossom and June 30th for "fruit ripe." While these are probably errors in copying yet the compiler casts doubt upon a sheet in which such irregularities occur.

If dashes were put in where no observation is made it would simplify the compiler's work. Indian Pear and Red Cherry "fruit ripe" are not observed. One observer has the the Cate for Tall and Creeping Buttercups. Remember that the Creeping Buttercup is the later plant. Some teachers record only one of these plants and leave the compiler with the impression that they do not recognize both. The Creeping Buttercup has certain marked characteristics besides that indicated by the name. When you see a buttercup about three or four inches in height it does not necessarily follow or tour inches in neight it does not necessary may be quite a Creeping Buttercup; for a Creeping Buttercup may have oc-Quite as tall as the other species, or something may have oc-Curred to have stunted the growth of the Tall Buttercup. Only two observers reported both correctly.

June 28th and 17th, are too late for the Painted Trillium. I always associate this beautiful blossom with my 24th of May fishing trip.

No. 28 had no observers.

A few confused the Star Flower, Gold Thread and Spring Beauty. The last named appears first and may be distinguished for from the others by its linear leaves and tuberous root,

Star Flower has a whorl of leaves on a wiry stem; the Gold Thread may be recognized by the color.

No. 37 had few observers. Also Nos. 41, 42, 44 and 51 are not reported, yet these must be common in every section.

It is interesting to note the correspondence between the dates of thunder storms in adjoining sections. Please notice that the schedules call for the number of storms, with the dates to be given below.

The following dates are too early; 133 for Ox-Eye Daisy; 148 for Pitcher Plant; Field Horsetail 95; White Violet 102; Blue Eyed Grass 125.

There are also some errors so glaring that it is useless to point them out, such as, last snow to fly in air-June 30th.

Several schedules had a large number of added observations, among which were Miss O'Regan's of Parrsboro; Miss Glennie's of Amherst and Miss Coates's of Truemanville. extra observations take in such plants as Red Trillium, Hobble Bust, Smilacina, Speedwell, Hempnettle, Gooseberry, Dutch man's Breeches, Elder, Bluet, Chickweed, Shepherd's Purse, Twisted Stalk, etc.

May 24th is too late for Song Sparrow.

One teacher reports the robin on March 1st. I think it probable that this Redbreast remained north all winter. another sheet we have the "Yellow Crowned Warbler," and also the "Myrtle Warbler" as an extra observation, but a different date. It would be interesting to note that these are the same bird, also known as the "Yellow Rumped Warbler" the yellow patch on the rump being quite as descernible as the patch on the crown. These birds may easily be recognized by their numbers and by their numbers and song—a clear broken trill. March 22nd. is too early for this bird:

The Meadow Lark is reported from West Amherst.

The migration of ducks and geese is indicated only twice.

Senecio jacobaea reported not found in Harrison Settle ment, Amherst and Sand River. Brown Tail Moth not reported.

Special credit is due Miss O'Regan of Parrsboro and Miss Fage of West Amherst for the neatness and accuracy of their observations.

The compiler will be pleased if he can answer any question live the identity of or solve the identity of any plant for any teacher in his regist. If you are sending a plant to be identified, please pack in moist moss.

REGION VII.

Antigonish County.

Mr. William A. Doane, Compiler.

Most of the schedules show careful observation and are fairly complete. The plants seem to be better known than the birds. Additional information is given in four cases, one schedule having twenty-nine additional items. The data concerning the locality are not always fully filled in at the head of the schedule.

In one instance, the name of the month, as well as the day of the year, was placed in the date column which is not necessary and tends to confuse.

Other points are:—

No. 26. Rhodora in one case is reported first seen June 25 and about sixteen days earlier in a near by section.
be "No. 61. Lilac, "first seen" June 30, apparently should common."

Nos. 71 and 78. Dates given 246 and 308 that should

have appeared in an earlier schedule.

No. 68. Reported "first seen" and "common" on the same day. The former observation is of no value as "first seen" implies the first actual planting.

No. 98. March 13 is too early for the appearance of the

night hawk.

REGION NO. VII.

Cumberland County.

Miss Flora M. Zwicker, Compiler.

On the whole, the schedules of this particular county were fairly accurate and complete. Many of the teachers sent in additional observations, one teacher sending fifty, many of which were very interesting.

The most noticeable errors were the following:-

Rhodora, Kalmia glauca and K. angustifolia taken one for the other. For instance, one teacher had K. glauca and K. angustifolia both flowering the same date, viz. 28th May, which is too early for either, certainly so for K. angustifolia, which is barely ready in any sufficient quantity for Grade IX botany class before school closes. In all probability she took it for class before school closes. for the Rhodora. Over half the teachers from this belt,

who sent in reports made this mistake. This shows that teachers yet do not know the difference between the Rhodora and the Kalmia.

REGION NO. VIII.

Cape Breton and Richmond Counties.

Miss Mary B. Macdonald, Compiler.

For purposes of compilation the region is divided into three belts:—

(a) Coast, (b) Low Inlands, (c) High Inlands.

Belt (a) had thirty three observers. The majority of its schedules were very well filled up. Belt (b) had nineteen observers; its schedules were not very complete. Belt (c) had eight observers. A few of its schedules were fairly filled up. In all, the region had sixty observers, many of whom took great pains to secure correct dates and make many observations.

NOTES.

- 1. A few observers forgot to fill in fully the blanks at the head of the schedules.
 - 2. The year should always be clearly indicated.
- 3. It is also necessary that only dates between January 1st and June 30th be given in schedule sent in with July returns.
- 4. Some observers used the date of the month instead of the day of year.
- 5. Some observers sent in additional observations. One had thirty additional ones, which was quite creditable.
- 6. It is interesting to note how the number of thunderstorms with dates agree in the different schedules.

RURAL SCIENCE TRAINING SCHOOL.

The next summer session of the Rural Science Training School will be held at the Provincial Normal and Agricultural Colleges, Truro, N. S., from 12 July to 10 August, 1916.

The first meeting will open at 10 a. m. in the Convocation room of the Normal College, when all students should be present in order to qualify for full attendance.

The full general program, diploma course and syllabus of studies followed will be found in the April, 1915, Journal of Education, beginning at page 44.

The Regulations of the Council of Public Instruction governing Rural Science education will be found complete in the October, 1914, **Journal of Education** at page 209.

The following changes from the program published in April 1915, have been made at the suggestion of the Director (C) Scholarships.

The following changes from the program published in of Rural Science—(A) Travelling Expenses; (B) Exemptions;

- factory work for the full four weeks in at least two scientific expenses.

 (A) Reg. 91 (5) part:—Students who have done satisful subjects are recouped the amount of the actual travelling
- Will be exempt from examination in the "minor" courses (a), and (c) under IV.
- each and forty of \$5 each will be open for competition to stute to teach in Nova Scotia the following year will be eligible for scholarships or for any other financial assistance.

Playground exercises on the Truro school grounds.

Wolfe, M. Sc., Director of Rural Science, Truro, N. S.

PROVINCIAL EXAMINATIONS OF HIGH SCHOOL STUDENTS.

- 92. "High School Students" shall be held to mean all who have passed the County Academy Entrance Examination and are studying the subjects of any high school grade, or who are certified by a licensed teacher as having fully completed a Common School course of study, and are engaged in the study of subjects beyond Grade VIII.
- 93. A terminal examination by the Provincial Board of Examiners shall be held at the end of each school year on subjects of the first, second, third, and fourth years of the High School Program, to be known also as Grades IX, X, XI, and XII respectively of the Public Schools.
- The examinations shall be held during the last seven days of June, according to the time tables published for Grades XII, XI, X, and IX, and the "Minimum Professional Qualification" tion" of public school teachers, at each of the following stations, viz:—1, Advocate; 2, Amherst; 3, Annapolis; 4, Antigonish; 5, Arichat; 6, Baddeck; 7, Barrington; 8, Bear River; 9, Berwick; 10, Bridgetown; 11, Bridgewater; 12, Caledonia; 13, Canning 14, Canso; 15, Chester; 16, Cheticamp; 17, Church Point; 18, Dishard 10, E. B. Digby; 19, East River St. Mary's; 20, Glace Bay; 21, Great Village; 22, Guysboro; 23, Halifax; 24, Inverness; 25, Joggin Mines; 26, Kentville; 27, Liverpool; 28, Lockeport; 29, Louisburg; 30, Lunenburg; 31, Makana 20, 1, Lockeport; 29, Louisburg; 30, Lunenburg; 31, Makana 20, 1, Lockeport; 29, Louisburg; 30, Lunenburg; 31, Makana 20, 1, Lockeport; 29, Louisburg; 30, Lunenburg; 31, Makana 20, 1, Lockeport; 29, Louisburg; 30, Lunenburg; 31, Makana 20, 1, Lockeport; 29, Louisburg; 30, Lunenburg; 31, Makana 20, 1, Lunenburg; 31, burg; 30, Lunenburg; 31, Mahone; 32, Maitland; 33, Margaret Forks; 34, Middle Musquodcboit; 35, Middleton; 36, Pictou; 41, Port Hawkesbury; 42, Port Hood; 43, Pugwash; ke; River John: 45 Short Hanks River John; 45, Sheet Harber; 46, Shelburne; 47, Sherbrooks, 48, Springhill, 40, Stelley, 46, Shelburne; 47, Sherbrooks, 48, Springhill, 40, Stelley, 48, Springhill, 49, Springhill, 40, Stelley, 48, Springhill, 40, Stelley, 48, Springhill, 49, Springhill, 49, Springhill, 40, S 48, Springhill; 49, Stellarton; 50, St. Peter's; 51, Stewiacke; Sydney: 53 Sydney: Miles Sydney; 53, Sydney Mines; 54, Tatamagouche; 55, Truro; 56, Upper Stewiacke; 57, Wallace; 58, Freeport; 59, Westville, 60. Windsor: 61 Walterille, 62 W. 60. Windsor; 61, Wolfville; 62, Wood's Harbor; 63, Yarmouth.
 - 95. (a) Application for admission to the Provincial High School examination must be made on the prescribed form to the Inspector within whose division the examination station to be attended is situated, not later than the 15th day of May. Applications for the M. P. Q. examination are henceforward required to be sent in at the same time.
 - (b) Candidates applying for the Grade IX examination or for the next grade above the one already successfully passed by them shall be admitted free. But for every grade omitted

between the highest grade of certificate held and the grade of certificate applied for, a fee of one dollar must accompany the application form to the Inspector.

- Examination the fee is one dollar for each paper except for the first three qualifying for third rank, which shall be free; but this fee should not be forwarded with the application for it has been found more convenient to have it paid to the Deputy-Examiner on the day when the candidate presents himself for examination. The Deputy-Examiner shall transmit the same to the Superintendent with his report.
- (d) The prescribed form of application which can be obstained free from the Education Department thru the Inspectors, teacher having at least the grade of scholarship applied for by written out on the application.
- and his name is not found on the official list as having made regular application in due time, the Deputy-Examiner may statement that application was regularly made in due time, which with a fee of one dollar is to be transmitted with the statement is verified the dollar shall be returned. Providing there is sufficient accommodation, the Deputy-Examiner may Grade in addition to the regular fees required under Reg. 95 (b) and (c).
- of Education, not later than June 1st, a list of the applications restation within his division, on the prescribed form supplied from the Education Office, together with all fees duly credited.
- Superintendent of Education, shall have power to employ an day for the time so employed.
- prepared and printed suitable examination questions for each examination in accordance with the regulations of the Council,

and shall forward to each Deputy Examiner a sufficient supply of the same, together with copies of such rules and instructions as may be necessary for the due conduct of the examination.

- 99. The maximum value of each paper shall be 100; the questions being made as nearly as possible equal in value. Should the *values* of questions be unequal, their values shall be stated near the margin of each question.
- 100. Each examiner shall mark distinctly by colored pencil or ink at the left hand margin of each answer on the candidate's paper its value, placing the sum of the marks on the back of the folded sheet. From this sum the number of misspelled or obscurely written words, is to be deducted to show the net value of the paper; provided, however, that from one to three may be added by the Examiner for specially good writing.
- 101. The "High School Pass" on all grades shall be as defined under the regulations from year to year.
- 102. The "Teachers' Pass" shall be as defined under the regulations from year to year.
- 103. (a) Candidates failing to make a High School pass in the grade applied for shall be ranked as making a High School pass in the grade next below, provided an average of 40 per cent. with no subject below 25 (in the case of two papers an average of 25) be made; and as making a pass in the grade second below, provided an average of 30 per cent. be made.
- (b) Candidates failing to make a Teachers' pass in the grade applied for shall be ranked as making a Teachers' pass in the grade next below, provided an average of 50 per cent. be made with no subject below 30 (in the case of two papers an average of 30); and as making a teachers' pass in the grade second below, provided an average of 40 per cent. be made. A High School pass of any grade ranks as a teachers' pass of the grade next below.
- (c) No appeal from the examination of a candidate's answer paper at the Provincial High School examination, shall be entertained by the Superintendent unless it is accompanied by a fee of fifty cents for each paper to be re-examined to cover the minimum expense, and not even then unless a responsible person vouches for the good standing of the appellant.

- 104. Each candidate, provided no irregularity has been reported, shall receive from the Superintendent of Education a certificate containing the examination record in each subject. If the candidate has made a "High School Pass," the certificate will bear the title "High School Certificate," and show the grade passed under the arm of the Education Department, but candidates failing to pass shall receive an equally detailed statement of their examination record on the various subjects, if there is no irregularity.
- order shall be admitted free to the regular Provincial High School Examinations, provided their application and procedure have been regular. For all other cases a scale of fees as liven in 95 (b) and (e) has been fixed to cover the cost of examination and extra labor likely to be incurred.
- 106. The subjects, number and values of the papers for the different examinations and the general scope of the examination questions are indicated generally by the texts named in mand described High School Program. Examination may described High School and M. P. Q. answers.

Provincial Examination Rules.

- hours is the time allowed for writing each paper, except in the each paper shall be one hour. The following rules must be exactly observed:—
- nation room punctually half an hour before the time set for the time paper of the grade for which they are to write, at which The deputy examiner shall give each candidate a seat. Must therefore be neither forgotten nor changed. Candidates therefore be neither forgotten nor changed. Candidates consecutive order (without hiatus for absent applicants who kill, then coming to XI, X and IX in order. Candidates for intil the hour fixed for their papers in the regular time table, the papers on which they intend to write.

- (2) Candidates shall be seated before the instant at which the examination is fixed to begin. No candidate late by the fraction of a minute has a right to claim admission to the examination room, and any candidate leaving the room during the progress of any examination must first hand in his or her paper to the deputy examiner, and not return until the beginning of the next paper.
- (3) Candidates shall provide themselves with pens, pencils, mathematical instruments, rulers, ink, blotting paper, and a supply of good, heavy foolscap paper of the size thirteen inches by eight.
- (4) Candidates may write upon both sides of their paper. When more sheets than one are used they must be fastened to gether. Each sheet should bear the Candidate's grade and number. In order to secure high values from examiners neat writing and clear concise answers are much more important than extent of space covered or the number of words used.
- (5) Each such paper must be exactly folded: First by doubling bottom to top of page, pressing the fold (paper now $6\frac{1}{2}$ by 8 inches); next by doubling again in the same direction pressing the fold flat so as to give the size of $3\frac{1}{4}$ by 8 inches.
- (6) Finally, the paper must be exactly indorsed as follows:—A neat line should be drawn across the end of the folded paper one-half inch from its upper margin. Within this space, $3\frac{1}{4}$ inches by $\frac{1}{2}$ inch, there must be written in very distinct characters, 1st, the Roman letters indicating the grade; and a vacant parenthesis of at least one inch within which the deputy examiner shall afterwards place the private symbol indicating the station; 3rd, the candidate's number. Immediately under neath this space and close to it should be neatly written the title or subject of the paper.

For example, candidate No. 18 writing for Grade XI on Algebra should indorse his paper as shown below:—

18		
_	bra	
_	Algebr	
X		
) ''	Į.	

- be written within over the commencement of the paper also; but, any sign or writing meant to indicate the candidate's name, station or personality may cause the rejection of the paper before it is even sent to the examiners.
- (8) Any attempt to give or receive information, even should it be unsuccessful, the presence of books or notes on the person of a candidate or within his reach during examination, will constitute a violation of the examination rules, and will justify the deputy-examiner in rejecting the candidate's papers, and dismissing him from further attendance. No dishonest person is entitled to a provincial certificate or teacher's license. And where dishonesty at examination is proven, provincial certificates already obtained and licenses based on them will be cancelled.
- (9) It is not necessary for candidates to copy papers on account of erasures or corrections made upon them. Neat corhigh in the estimation of the examiner as if half the time were work necessary to find them will be assumed to be only guesses and will be valued accordingly.
- deputy-examiner with respect to typographical or other errors which may sometimes occur in examination questions. The ability as indicated by his treatment of the error. No candidate will suffer for a blunder not his own.
- will held up the hand. Communications between candidates at signs, is a violation of the rules. Any such necessary communication can be held thru the deputy examiner only.
- aminer cannot overlook a suspected violation of the rules of examination without violation of his oath of office. No conpected to shield the guilty or negligent.
- record made at this examination, should fill in a form of appliprovided with blank forms for those who do not already have

them. The applicant should have his certificate of age and character correctly made out and signed, and should fill in the number, station and year of any previous examination he has taken, whether he has been successful in obtaining a certificate thereon or not. He should also fill in his number, station, etc., and grade of certificate or rank of M. P. Q. expected. This latter should be placed in *brackets*, which will be understood to mean that it is not yet obtained but is *expected* to be obtained.

(14) All candidates will be required to fill in and sign the following certificate at the conclusion of the examination, to be sent in with the *last* paper—written by them.

Certificate.

Examination Station	DateJune, 191.	
Candidate's	No. ()

I truly and solemnly affirm that in the present examination I have not used or had, in the Examination Room any book, printed paper, portfolio, manuscript, or notes of any kind, bearing on any subject of examination; that I have neither given aid to, nor sought nor received aid from, any fellow-candidate; that I have not wilfully violated any of the rules, but have performed my work honestly and in good faith.

Name in full without any contraction in any of its parts.

P. O., to which certificate is to be sent.

(Full Address)

108.

(a) TIME TABLE.

County Academy Entrance Examination, June, 1916.

Date.	Time.	Subject.
	-	Subject.
9 June	9 to 11 a. m.	2. English Language.
Thursday, 29 June	2 to 3.30 p. m.	3. Drawing and Book-keeping.
	3.30 to 5 p. m.	4. Geography and History.
30 June.	9 to 11 a. m.	5. Mathematics.
Fri. 3	2 to 3.30 p. m.	6. General Knowledge.

1. Reading to be examined at the end of each session, whenever found most convenient by the Principal.

(b) TIME TABLE.

Day of Week Grade.	Examinations. 9 a. m., to 11 a. m.	Examinations. 11 a. m., to 1. p. m.	Examinations. 3 p. m., to 5 p. m.
-			

Monday 26 June.	XII. XI. X. IX.	English (a) English English English	Greek (b) Greek Greek	French. French. French. French.
Tuesday 27 June.	XII. XI. X. IX.	Geometry Geometry Geometry Drawing	General History	Physics. Ancient History. English History. Geography.
Wednesday 28 June.	XII. XI. X. IX.	Algebra Algebra Algebra Algebra	Latin (a)	Botany. Physics. Chemistry. Science.
Thursday 29 June.	XII. XI. X. IX.	Latin (b) Latin Latin Latin	English (b)	Trigonometry. Prac. Math. Arithmetic. Arithmetic.

TIME TABLE. (c)

M. P. Q. Examination, June, 1916.

Friday, 30 June.

	,		
Time a. m.		Time p. m.	Subject.
9.00 to 10.00 1 10.10 to 11.10 2 11.20 to 12.20 3	School Law and Forms. Theory and Practise. Hygiene and Temp'n'e	2.00 to 3.00 4. 3.10 to 4.10 5. 4.20 to 5.20 6.	School Management. History of Education Pedagogy.

109.

TIME TABLE. (d)

University Graduates' Examination.

At the Normal College, Truro, 24 to 30 June, 1916.

[Minor and one-half Major *Examinations].

Geology. French, 2 p, m., Saturday, 9 a. m.. Greek, 2 p. m., English, Monday 9 a. m., German. 2 p. m., Tuesday. 9 a. m., Latin, Biology. Chemistry. 2 p. m., Mathematics, Wednesday, 9 a. m., arranged by 2 p. m., Physics, Thursday, 9 a. m.,

Higher halves of Major Examinations to be

Deputy Examiner.

*One of the examination papers in the Major subject be the Minor paper in the may be the Minor paper in the same subject.

Licensing of Teachers.

110. No person can be a teacher in a public school entitled to draw public money without a License from the Council of Public Instruction. Before obtaining a license a candidate must obtain first, a certificate of the prescribed Grade of Scholarship; second, the prescribed certificate of professional Rank as a teacher, either from the Provincial M. P. Q. Examination (which must be supplemented for all classes higher than third class, by the prescribed certificate of ability to give effective physical training to pupils), or from the Provincial Normal College; third, the prescribed certificate of age and character from a minister of religion or two Justices of the Peace; and fourth, a certificate of health. The value of a license is distinguished by the term Class; of scholarship by the term Grade; of professional skill by the term Rank. Full information as to the licensing will be found in Regulation 111 to 124 inclusive but the following collocation of the terms used will help to explain their general significance and relation:—

Generally,

'Teachers' Pass Scholarship.''

Academic Head Master. Univ. Grad. & Test Ex. Academic Rank. 22 years.
Class A requires Grade XII Superior First. 20 years, etc.
Class B requires Grade XI First Rank. 19 years, etc.
Class C "Grade X Second Rank. 18 years, etc.
Class D "Grade X Second Rank. 18 years, etc.
Class D "Grade IX Third Rank. 17 years, etc.
Class D (Temp.) "Grade IX (M. P. Q.). 16 years, etc.

- awarded any candidate who is found defective (below 40%) in the scholarship of any of the subjects of the Provincial Program the corresponding grade, until the Faculty is satisfied that creditable proficiency has been made in each subject.
- out graduation from a teachers' training college, it can be only scholarship.

 When a candidate obtains a teachers' license without graduation from a teachers' training college, it can be only scholarship.

Graduation from the Provincial Normal College will inmanent license higher than third class shall henceforward be awarded without this qualification.

other qualification except the possession of a lawfully procured

License gives a person authority to teach under the law in a public school. The regulations governing the issuance of licenses are as follows:—

The permanent Licenses of Public School teachers shall be under the **Seal** of the Council of Public Instruction signed by the Secretary of the Council, shall be valid for the whole province during the good behavior of the holder, and shall be granted on the fulfilment of the conditions more fully specified in the succeeding regulations, namely; the presentation of the prescribed proof of (1) age, character and health, (2) scholarship, and (3) professional skill.

114. There shall be five classes of such licenses, which may be designated as follows:—

Academic Class.

Class A—Superior First Class.

Class B—First Class.

Class C—Second Class.

Class D—Third Class.

115. The certificate of professional qualification of skill shall be (a) the academic, superior first, first, second or third **Rank** classification by the Normal College, or (b) the minimum (which shall rank one degree lower than the normal), and shall be the academic, superior first, first, second, or third rank pass on the following papers:

MINIMUM PROFESSIONAL QUALIFICATION EXAMINATION.

116. The questions set for the minimum professional qualification examinations shall be on the following syllabus and may require free hand drawing in any question when desirable:—

1. School Law and Forms.

- (a) The Acts of the Legislature and Regulations of the Council of Public Instruction bearing on public education with their latest amendments, with a knowledge of the way in which the law is to be administered; and the intimations in the two latest Journals of Education. "The Manual of School Law."
- (b) The proper keeping of the School Register, the making out of neat and accurate School Returns, and a knowledge of all the ordinary forms required by school boards in administering the affairs of the section. "The Handbook for Teachers."

2. Theory and Practise of Teaching. Calkin's "Notes on Education."

3. Hygiene and Temperance.
Lyster's "School Hygiene" (Univ. Tutorial Press). The
Education Act Regulations, and the text books prescribed for
the public schools.

4. School Management.

Lectures on Teaching, by Sir Joshua Fitch (MacMillan

Co.)

5. History of Education. Monroe's "Brief Course" (MacMillan Co.).

6. Pedagogy. Bagley's The Educative Process (MacMillan Co.).

For Third Rank M. P. Q.—An aggregate of 150 on 1, 2 and 3, with no subject below 40 per cent.

2, 3 For Second Rank M. P. Q.—An aggregate of 200 on 1, and 4, with no subject below 45 per cent.

3, 4, For First Rank M. P. Q.—An aggregate of 300, on 1, 2, and 5, with no subject below 50 per cent.

On 1, 2, 3, 4, 5 and 6, with no subject below 55 per cent.

For Academic Rank M. P. Q.—An aggregate of 390 on syllabus with no subject below 60 per cent.

The M. P. Q. Examination may now be passed by partial examinations in more than one year; but in these cases, every paper for a Third rank pass must be at least up to 55; for Second Academic rank 65; for Superior First rank 70, and for not be written at a subsequent examination for the respective ranks.

nized as the appropriate source of certificates of professional qualification for public school teachers, but the certificates of other Normal or teachers' training schools whose curricula equivalent of those of the Provincial Normal College, may be accepted when qualified by the addition of the three following conditions; (a) a pass certificate of the Provincia

"minimum" professional qualification examination of the corresponding rank, (b) a certificate of a Public School Inspector, before whom or under whose supervision the candidate has demonstrated by the test of actual teaching for a sufficient period his or her qualifications for the class of license sought, and (c) the prescribed certificate for Physical Training.

In the case of candidates whose course of professional training had been completed before the grade of scholarship necessary for the class of license afterwards applied for was obtained, no license shall be issued until after the lapse of a year from the date of the certificate of high school grade required for the said license, except in the case of the promotion of trained first class teachers.

118. The prescribed certificate of age and character is given in the following blank form of application for license, which will be supplied to candidates by the Education Department thru the Inspectors or the Principal of the Normal College:—

Form of Application for a Teacher's License.

To
Inspector of Schools, Division No
I hereby beg leave thru you to make application to the Council of Public Instruction for a Teacher's License of Class and here with I present evidence of compliance with the conditions prescribed, namely
I. The prescribed certificate of age, character and health hereto attack which I affirm to be true.
II. My certificate of high school gradeobtained atbelow). Examination Station as Noin the year 191 (Further information below).
III. My certificate of professional qualification of Rank No.
IV. The prescribed certificate for Physical Training, No
(Name in full)
(Post Office address)
Date County
Cartificate of Age Character and Health.
I, the undersigned, after due inquiry and a sufficient knowledge of the character of the above named candidate for a Teachers' License, do hereby certify

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and the principles of Christia love of country, loyalty, hu chastity, temperance and all	nculcate by prounding an morality and imanity, benevother virtues.'	ecept a d the l volence	candidate is good, and such as to ing that the said candidate will nd example a respect for religion tighest regard for truth, justice, , sobriety, industry, frugality,
******************			(Name and title).
			(Church or Parish).
			(P. O. Address).
Date			,
ines. When the certificate give	ven above is si gion'' the word	gned b	by "two Justices of the Peace" build be changed by the pen into the words "Church or Parish"
aidered as equivalent to its pr	the High Schoresentation. Vition Station, t	ol cert Vhen t he <i>gra</i> i	ificate in II above will be con- the candidate makes application the or rank of certificate written d in a parenthesis, which will be examination.
Normal College Diploma in II will be considered as equivale	he Provincial	M. P	O. Certificate or the Provincial
۸			hich are not regularly recorded ation as evidence of the correct-
	nformation l	From .	Applicant.
1. Class of license alread	dy held		NoYear
any other information candida	Scholarship, I ate may wish t	Professi o state	onal Training, experience, or
whether a White C Examination	ons taken in a	ddition	to that specified in II above,
On Grade XII	Evamination	Statio	n No Year
' v	44	11	
" IX	14	11	
***************************************			narks by Inspector bliege).
****************			•••••
Place and Date.			Inspector
and Date.			

License Standards.

- 119. For an Academic License, the following conditions are necessary:—
 - (1) A certificate of moral character signed by a Minister of Religion or two Justices of the Peace, as in the prescribed form, to the effect that the candidate is of the full age of twenty-two years, and presumably likely to perform the duties required by law.
 - (2) A recognized degree from a recognized University (no degree or University shall be recognized unless the course is proven to be one of at least four years following the Provincial high school pass of grade XI, or a matriculation standard shown to be its full equivalent); and a pass on the University Graduate's Test Examination. [Grade XII is the standard recommended in the more essential subjects for the standard University Matriculation.]
 - (3) A certificate of Academic rank from the Proving cial Normal College. In the awarding of this certificate the Frank ficate, the Faculty of the Provincial Normal College may accept at their true value the certificates of the Normal training schools, of the Education Faculties of Universities and of Inspectors, in lieu of a portion of the minimum attendance prescribed by the Council, provided (i) the candidate has made an Academic pass on the M. P. Q. syllabus, (ii) has obtained the prescribed Physical Training certificate, (iii) has taught successfully for at least two years, one of which must be as a full teacher in a department of high school grade, and (iv) has demonstrated satisfactory professional proficiency in the art of teaching before the Normal College Faculty by whom the candidate shall also be examined viva voce.
- 120. For a Class A (Superior First) License the following conditions are necessary: (1) A certificate of the full age of twenty years and moral character as in the foregoing regulation. (2) A teachers' pass certificate of grade XII. (A B. A. or a B. Sc. degree from a recognized University may be accepted qualifying for a Teachers' License as the equivalent of a first chers' Pass of Grade XII.") (3) A certificate of superior rank professional qualification from the Normal College; or a Univ. Grad. Test Exam. certificate with a superior first rank M. P. Q. and the prescribed Physical Training certificate.

- 121. For a Class B (First Class) License, the following conditions are necessary: (1) A certificate of the full age of nineteen years and moral character as in the foregoing regulation. (2) A teachers' pass certificate of grade XI. (3) A teachers' certificate of first rank professional qualification from the Normal College; or a teachers' pass certificate of grade XII, with a first rank M. P. Q. and the prescribed Physical Training certificate.
- 122. For a Class C (Second Class) License the following conditions are necessary:—(1) A certificate of the full age of eighteen years and moral character as in the foregoing A certificate of second rank professional qualification from the Normal College; or a teachers' pass certificate of grade XI with second rank M. P. Q., and the prescribed Physical Training certificate.
- conditions are necessary:—(1) A certificate of the full age of lation. (2) A teachers' pass certificate of grade IX. (3) A certificate of third rank professional qualification from the with third rank M. P. Q.

Temporary and Special Licenses.

124. (a) A third Class (Temp.) License, valid only for one year, may be granted (but not previous to the 15th day of September in any school year unless the candidate holds at least a pass certificate of grade X and proposes to attend the Normal College during the following year) on regular application when the following four conditions are fulfilled:—
(1) A certificate of the full age of seixteen years and moral
characteristicate of the full age of t character as in the foregoing Regulation. (2) A pass certificate as in the foregoing Regulation. ficate of at least grade IX. (3) The third rank minimum didate of a qualification. (4) A recommendation of the candidate as a temporary teacher for a specified school by the Inspector who must previously be assured by the trustees of the of the said school that altho reasonable effort was made to employ a regular teacher of permanent class, one could not be obtained a regular teacher of permanent class. the sold ined, and that the candidate would be acceptable to the school section as a teacher for the year. Such license can be reliable the candidate has demonstrated the candidate which is the candidate has demonstrated the candidate has demonstr be re-issued for another year when the candidate has demonstrated strated an advance of grade or rank in his qualification at a subsequent Provincial Examination.

- (b) On the recommendation of the Normal College at Truro, the Council of Public Instruction may award Kindergarten Diplomas of first or second rank to approved candidates who have respectively the scholarship qualifications of first or second class teachers, and who have successfully taken a full year course in the Truro Kindergarten affiliated with the Provincial Normal College; and such diplomas shall be taken by the Superintendent of Education as the equivalents respectively of first and second class licenses in the distribution of the provincial aid to the teachers holding them.
- (c) On the recommendation of the Superintendent of Education and the Principal of the Provincial Normal College, normal-trained teachers from any part of the British Empire may be awarded a temporary license for one year of a class as high as the scholarship and professional training of the candidate may warrant. On the advance of the candidate's qualifications according to the Nova Scotia regulations, and on the inspector's recommendation, the license may be continued for a subsequent year until a permanent license is qualified for.

Application for such temporary license should be made to the Superintendent with (1) a certificate of good standing the profession at date from the chief educational authority of the province or country which granted the license, and (2) certificates and programs proving in detail the character of the scholarship, professional training and experience of the candidate.

(d) Should arrangements be made for the exchange of teachers for one year from any portion of the Empire or from foreign countries the council may, on the recommendation of the Superintendent and Principal of the Normal College, award a provisional license of the same class to the foreign substitute.

VACATION AND HOLIDAYS.

- 125. (a) The summer vacation shall be in the months of July and August, as intimated from time to time in the Journal of Education.
- (b) But school trustees with the consent of their inspectors may take the same length of time as vacation in January and February, and continue school during the summer vacation term, for which a separate return must be made, and of which intimation should be indorsed on the regular term return sent in to the inspector during the first week of July. The money

grants payable for services during the summer vacation term shall be payable at the next following regular time of payment of the respective public grants.

the public schools: Sundays, Saturdays (except as herein-after provided), Victoria Day, the King's Birthday, Good Friday, Dominion Day, Labor Day, any day proclaimed by the Governor-General or the Lieutenant-Governor, and two weeks at Christmas, according to the following scheme:

When Christmas falls on	Vacation shall begin on	Schools shall re-open on
Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday,	Saturday, Dec. 24. " Dec. 23. " Dec. 22. " Dec. 21. " Dec. 20. " Dec. 19. Friday, Dec. 24,	Monday, Jan. 9.

- 127. In order that the due inspection of schools, as have power, notwithstanding anything in the foregoing regulations, to give notice of the day on which he proposes to visit and to require that on the day so named such school shall be kept in session.
- deem it desirable that any teaching day should be given as a Saturday, the school or schools, may be kept in session on the and such Saturday shall be held to be in all respects a legal teaching day.
- 129. When, on account of illness, or any other urgent with the consent of his trustees he may make up such loss by not violated.
- 130. No public school shall be kept in session under any Saturdays in any quarter, nor for more than five week on the average (vacations not being counted) between

the opening and closing of the teacher's service in the school, except as authorized by the inspector to adjust local conditions to the Provincial examinations.

131. If a school is closed by order of a board of health or a duly registered physician to prevent a serious and otherwise unpreventable epidemic of contagious or infectious disease, the teacher will be entitled to receive provincial aid for as many as twenty days, and the trustees the municipal fund due to the employment of the teacher for the same time, provided the inspector approves the said order for the closing of the school, to the "return" of which the said order must be attached.

But no municipal fund shall be paid on account of the attendance of pupils while the school was closed.

132. The hours of teaching shall not exceed six each day, exclusive of the time allowed at noon for recreation. Trustees however, may determine upon a less number of hours, short recess should be allowed about the middle of both morning and afternoon sessions. In elementary departments, especially, trustees should exercise special care that the children are not confined in the school room too long.

217. SPECIAL PRESCRIPTIONS FOR COMMON SCHOOL GRADES.

Program for graded schools with a teacher for each grade.

Grade I.

practises and word-building to accompany.

Language. Directed conversation centering around nature topics and to promote familiarity and freedom from restraint (b) to cultivate distinctness and purity of utterance (c) to develop a sense of grammatical correctness and a perception of the sentence (d) Recitation from memory of appropriate portions.

Writing and Drawing. Careful copying of letters, short words, and easy colored-crayola, to illustrate the language and nature lessons; stick-laying, paper-

Arithmetic. Perception of number and number relations thru use of objects, etc., the processes to involve generally numbers no higher than 20.

Direct observations of sky, weather, germination and growth, flowering and heavy and light; colors as red, blue, green, yellow. Elementary hygiene; clean-eating and drinking; care of eyes, nose, teeth.

Music, Physical Drill, etc. As under 'General Prescriptions.'

Grade II.

Reading. N. S. Reader No. I. Brief phonic exercises covering most of the of alphabet. N. S. word analysis and word-building; names of letters

Language. As in grade I, continued, avoiding repetition and monotony.

Writing and Drawing. As in grade I, continued. Free-arm practise in restrokes that compose the first parts of the letter n, the letter i, the letter e. Massing, an in grade I; Drawing of squares, rectangles, circles.

table and in multiplication table to 'six times twelve.' Measuring with the

Nature. As in grade I.

Music, Physical Drill, etc. See 'General Prescriptions.'

Grade III.

Reading. N. S. Reader No. 11. Occasional phonic practise, as in grade I.

Practise using. As in preceding grades, with enlarging perception of the sentence; the connectives and, but, because, if, when. The perception of the sentence; the connectives and particular or proper nouns. Recitation, written exercises, correction of speech errors.

Writing and Drawing. As in grades I and II., with added free-arm practise of the elements composing script letters, and of short easy words without looped letters. Drawing and coloring as in preceding grades; also, easy outline drawing drawing squares; rectangles, circles, triangles, of given dimensions; construction exercises in paper and cardboard.

Arithmetic. Notation and numeration to 100,000; multiplication table completed and applied to concrete as well as to drill-problems; short division; Measuring in feet and inches; estimating lengths and distances. Dollars and cents.

Nature. The weather chart; position of sun at different seasons. Wild flowers recognized; sprouting of seeds, opening of bulbs, buds, and blossoms, observed in schoolroom; growing plants from slips; fruits and seeds; how seeds travel; domestic animals and birds described. The neighborhood and its surface features noted and sketched on horizontal and later on blackboard. Hygiene; pure air and breathing; structure, use, and care of the teeth; water, tea and coffee, alcoholic drinks,

Music, Physical Drill, etc. As in 'General Prescriptions.'

Grade IV.

Reading. N. S. Reader No. 11. Exercises in utterance and expression, as in grade III. Spelling, etc., as in 'General Prescriptions.'

Language. Short stories reproduced orally and in writing. Brier oral and written descriptions of things seen and done in the nature class, on the farm, in any industry. Writing short letter to schoolmate, to teacher, to dealer ordering goods; attention to period, question-mark, comma, capitals, abbreviations. sentence; subject and predicate; noun, pronoun, verb (in finite relation only). Correction of errors of speech.

Writing and Drawing. Copy-book practise for form and connexion of letters free-arm practise on loose paper free-arm practise on loose paper free-look and other details; plan of schoolground with road and schoolhouse. Drawings to easy scale. Drawing flower, fruit, and animal forms, and of borders and patterns formed by repeating or alternating these. Free cutting, from colored paper, of simple figures; mounting these; making a blank-book, a cornucopia, a wall-pocket, etc., needlework.

Geography and History. Observe closely the physical features of the neighborhood, especially the natural drainage; inter-relation of slope, brook, swamp, pond; industries, means of communication and main routes of travel in Scotia. The larger natural features of Nova Scotia. The outer world; oceanic continents, Canada, the British Isles, the United States. Sand maps and wall contines of explorers, heroes, the early settlers, settlements and conditions of life. The lapse of time; lifetime, century, A. D.

Arithmetic. Notation and numeration extended; continual drill in Long tour fundamental operations, written, and 'mental' for accuracy and speed division, easy factoring, long and avoirdupois measures. Practise in measures involving half, quarter, eighth; problems of home and shop. Judging lengths distances, weights, values.

Nature. Study of flowers and plants, as in grade III, parts of flower and purposes; trees, grasses, shrubs. Life history of two or three common insects biserved and studied; e. g., housefly, cabbage and currant worms, identify four by plumage, song, food, habits. Four common rocks or minerals of Nova Scotia.

Music, Physical Drill, etc. See 'General Prescriptions.'

Grade V.

Reading. N. S. Reader No III. Perception of poetical rythm and of varying

tion to form and detail. Narration of the doings of any holiday, outing, etc. Orderly description. Simplest letter-writing, business and social, with attention speech and the more obvious relations between words; i. e., the adjectival, the adverbial, the objective, the possessive, the subjective.

Writing and Drawing. Writing, as in grade IV. Easy drawings to scale, with measurement of rectangular surfaces. Mass-drawing of objects significantly disposing figures, leaves, etc., symmetrically within a square or oblong. Careful shortening of circular and square surfaces. Paper and cardboard construction needlework.

tries. Similarly, Nova Scotia, its towns, rivers, distances, industries, products, means of communication. North America, with Canada in slight detail. The our racial origins, explorers, pioneers, primitive conditions

traction and division of tractions, vulgar and decimal (easy problems) presented in concrete and abstract. Canadian-money.

e. g., Nature. Plants; weeds and their habits; conception of family in plants; iniurious insects; common minerals; rock and soil; the magnet, the compass; the
heavenly bodies; the candle-flame; oxygen and carbon-dioxide; ventilation.

Nature. Plants; weeds and their habits; conception of family in plants;
iurious insects; common minerals; rock and soil; the magnet, the compass; the
Hygiene, Ontario Public Schoo: Hygiene in pupil's hands

Music, Physical Drill, etc. See 'General Prescriptions.'

Grade VI.

Reading. N. S. Reader No. III. Rythm and rime more carefully noted; quantity or length.

three tanguage. Oral and brief written exercises, as in Grade V. The verb, its Participle enses; its principal parts, with stress upon compounding with the past-of syntax involving these. Those few rules of syntax which avail in correcting nectives.

The several parts of speech. Practise in use of connectives.

Pictorial and Drawing. Copy-book and free-arm practise, as in Grade V. and their parts, vases, articles of furniture. Perspective of cube, rectangular drawing to scale; working-plans for wood and cardboard construction, as in Needlework and constructive evercises

rivers; the British Empire. Canada, in some detail, geographical, racial, inobserved, commercial, civic. Longtitude; the seasons; unequal day and night and products. Map interpretation. History. Lives of great Canadians. The chief migrations to Nova Scotia, Canada, and New Brunswick; French, English, German, Scottish, Loyalist. The American Colonies and the Revolution. Other British colonies. France and her colonies. Story of England to Cromwell's time. The relative antiquity of British, Roman. Greek, Egyptian and Babylonian civilizations. Rudimentary notions of government as obedience to authority.

Arithmetic. Fractions, vulgar and decimal, mentioning rate per cent. Weights and measures, completed, with practical exercises and concrete application. Cubical content.

Nature. Continuation of work of Grade V. Hygiene, as in text

Music, Physical Drill, etc. See 'General Prescriptions.'

Grade VII.

Me-Reading. N. S. Reader No. IV. Special attention to vowel length. trical accent observed. Metaphor and simile recognized.

Language. Composition, as in Grades V and VI. Synthesis of sentence. Practise in use of connectives; however, moreover, still, nevertheress, in view of etc. Inflection. The phrase and clause functioning as noun, as adjective, and as adverb. Enlargements and clause functioning as noun, as adjective, and as adverb. Enlargements and extensions. Letter-writing, business and social; punctuation.

Writing and Drawing. As in preceding grades, with much practise of free movement and attention to arm movement and attention to connecting and spacing and to uniformity hight and slope. Drawing, as in Grade VI, but involving increased skill. signing and decorating oil-cloths book source. signing and decorating oil-cloths, book-covers, wall-brackets, paper knives, photograph frames. Construction in conductive and con tograph frames. Construction in cardboard and wood; working-drawings. Linear (Ireehand) perspective drawing, and color-work, needlework.

Arithmetic. More difficult problems in weights and measures; square notes percentage, and its applications to interest, taxes, discount; promissory mensuration of surfaces mensuration of surfaces.

Geography. Home geography, physical and dynamical; Civics; federal and provincial governments; social and philanthropic institutions, and reforms.

Countries of North and South America, especially those of commercial ortance. importance.

History. Canada, its great events and personages, from 1713 to as in and, from Cromwell to George III with England, from Cromwell to George III, with story of American Revolution age

Brief History of England with interpretable and personages, from 1713 to 155 in

Re-Brief History of England, with interpretation and explanation by teacher. newed reference to ancient peoples and bible-lands.

Nature. Continuation of study of plant, animal, bird, and insect life additional types to be studied, and family relationships noted Structure of flower; pollination; usefulness of bees and other insects, of wind, etc., in pollination. Soils studied; chemistry of air, of flame, of water. Hygiene, as in text.

Music, Physical Drill, etc. See 'General Prescriptions.'

Grade VIII.

Reading. N. S. Reader No. IV. Meter and rime; careful discrimination owel-length; simile, metaphor personification reading Private reading of vowel-length; simile, metaphor, personification and allegory. discussed.

cription of mechanical and industrial processes, of playing of games of life

tories of insects, of natural features of district; letter-writing; abstracts and synopses; synthesis of sentences. Practise in use of connectives; e. g., therefore, accordingly, altho in spite of, if, provided etc. Grammatical relations between words and analysis revealing words it sentences; complex sentences; orderly parsing and analysis revealing only the more obvious relations. Princtuation.

Writing and Drawing. As in Grade VII with the addition of convention-etc. As in Grade VII with the addition of convention-etc. etc.; occasional rough sketching from nature. Constructive exercises and needle-Work as in Grade VII.

Geography. Latitude and longtitude, how determined; seasons, long and short days explained

Europe, especially the British Isles, France and Germany, and our commercial and racial relations therewith. Asia, especially Palestine, Japan, China, India D. Rhodesia, Egypt India, Persia; Africa, especially the South African Dominion, Rhodesia, Egypt, Molocco, Tripoli; Australasia and the island colonies of Britain. Commercial geography; lands, routes, means of transport, peoples, languages, products, Government, trade-treaties, tariffs, postal systems.

History. Canada from 1867 with review of important events since 1713; England from George III to the present time, as in Brief History of England, with interinterpretation and enlargement by teacher, and with review of important events since of the present time, as in present time, since Cromwell. The principles of representative and of responsible government.

Arithmetic. Metric weights and measures and their English equivalents. Application of percentage extended; stocks, debentures, insurance. Mortgages, bills of remitting money day-book, cashbills of sale, notes, paper money, methods of remitting money; day-book, cash-book, and ledger entries Marshall's Bookkeeping for text. Algebraic notation and the evaluation of formulas, especially the use of x to solve easy problems as equation.

Nature. As in grade VII, with added orders and families of plants, insects, animals, birds. Cross and longitudinal section study of bean, corn, woods. animals, birds. Cross and longitudinal section study of bean, corn, woods. Effects of seed selection; of fertilizers. Injurious insects and weeds and methods of extermination; insects as disease carriers, blights and fungus diseases of plants; tain-gauge, electricity, magnetism, solar heat, storms; tidal phenomena. Hesiene, as in text. [The "first year" course and the closing chapters of Brittain's will be valuable for general reading as well as for the practical application of Botany—and for the teacher in giving Nature Study lessons in Grade VIII.] Botany—and for the teacher in giving Nature Study lessons in Grade VIII.]

Music, Physical Drill, etc. See 'General Prescriptions.'

218. OUTLINE OF TECHNICAL COURSES FOR 1916-1917

(Which may be Substituted for the Regular Grade Work in the same

MECHANICAL DRAWING.

Grade VII.

Plate I: Use and care of different instruments; exact measuring of lines; drawing of lines to exact given length; drawing circles of different radio.

Plate II. (Drawings full size).

Shaft key 1" x 1" x 4";

.2. 3. Square anchor-bolt washer with hole; Round stamped washer, 3",—1" hole;

Hexagonal blank nut; Blank pipe flange, four holes, 6" outside diameter. Plate III. Lettering exercise, 60%; plain block letters.

Plate IV. Introduction of the principles of projection and of hidden and dotted lines.

All work to be third angle projection.

All drawings full size.

Plan, elevation or section of the following:

1. Shaft key, 4" x ½" x ½";

2. Hexagonal blank nut;

3. Blank pipe, flange, 6 holes.

Plate V. Further practise in work similar to that of former plates, drawings full size.

Threaded bolt 5" x 1" square head and hexagonal nut off; 1.

Same with nut on;

3. 6" pipe clamp—two views drawn half size.

Plate VI. Ideas of drawing to different scales and conventional signs, introduced.

Lap joint 1" boiler plate, two rivets, round heads, plan and section; 1.

Eve-bolt—two views.

3. $3\frac{\pi}{2}$ cast iron plug, plan, elevation and section.

Plate VII. Ideas similar to last plate.

Safety set collar for 2" shaft; plan, elevation and section thru set

5" tee joint for flanged pipe, elevation and plan, half-size;

Cast iron clamp box, half size.

Plate VIII. Geometrical problems using only ruler and compasses.

Drawing perpendicular to a line-from a point; 1.

2. Bisection of an angle; 3. Proportional division;

Drawing triangle having given three sides; 4.

Drawing parallel lines.

Grade VIII.

Plate IX. Review of principles taught in grade VII.

Bushing, hole $1\frac{1}{2}$ " x $\frac{3}{6}$ " x 4"; 1.

Packing nut from a valve; 2 . Wirerope sheaf, 6" in diameter; 3.

Piece of octagon tool steel, 4" x 12". 4.

Plate X.

Wrought iron crank; two veins, drawn tull size;

Flanged pipe coupling threaded, bolts and nuts in place; elevation and section tall size and section full size.

Introduction of Protractor. Plate XI. Plotting

Measure given angles.

Plot angles of 10° 18°, 57°, 36', 105°, 169°. 3 to 9. Plotting triangles and quadrilaterals from data supplied.

Plate XII. Mensuration and measurement of heights and distances 1 to 9. Problems, data to be obtained by pupils as directed by teacher.

Plate XIII.

1. Hand wheel of 'globe valve," 9" in diameter, two views.

2. Development of 90° stove-pipe elbow, 2 pieces.

Plate XIV.

1. Flanged shatt coupling; three views plan, end and section.

MINING SCIENCE.

Grades VII and VIII.

- 1. Preparation of oxygen from Mercuric oxid. Show effect of burning aplinter, charcoal, sulphur and iron wire
 - 2. Prepare carbon dioxid. Show properties and test.
 - 8. Preparation of nitrogen. Show properties.
 - 4. Atmosphere. Show that it contains the three gases previously studied.
 - 5. Prepare Hydrogen. Show properties.
 - 6. Water. Composition as shown by analysis, electrolysis and synthesis.
- Rives a gain in weight. Burn Zinc dust, magnesium, etc., to show that burning Burn charcoal and test product.
 - 8. Examination of a flame to learn its parts.
 - 9. Effect of cold body and gauzes on a flame.

Grade VII.

Physics.

- illustrate by water, lead, sulphur, napthelene, etc. 1. Forms or matter. Show that form depends on conditions. Practically
- Effects that changes of temperature produce on the length, diameter, etc., of solids, liquids and gases.
- 3. Construction and uses of a thermometer. This must be illustrated by actual Construction and uses of a construction of a thermometer.
- Modes of transmission of heat, mustrates to the industries and to every-day lite. Modes of transmission of heat, illustrated by experiment and discussion;
 - 5. Diffusion in liquids and gases. Illustrate by colored liquids.
 - 6. Weight of air, demonstrated by actual weighing.
 - 7. Barometer. Construction and practical application.
 - 8. Boyle's Law worked out from experiments with a Boyle's Law tube.

Grade VII.

Physical Geography.

The earth as a globe; the atmosphere, climate, temperature, seasons, weather; coefficients, cocks, wearing away and the The earth as a globe; the atmosphere, climate, temperature, seasons weather; building up of land, plains, coastal plains, wells, action of rivers, faults, mountains, valleys, volcanoes, lava; rivers and continuous folded mountains, valleys, volcanoes, lava; rivers and hulding up of land, plains, coastal plains, wells, action of rivers, faults, mountains, life history of mountains folded mountains, valleys, volcanoes, lava; rivers and formation of soil—floods, lakes, effect of winds, deserts, glaciers; shore lines, selevation and depression of land; earth's magnetism. reflation of soil—floods, lakes, effect of winds, described, elevation and depression of land; earth's magnetism.

Different kinds of rocks, interior, exterior; volcanic and sedimentary.

Rocks classified according to their method of formation;

Slate. Limestone.

Formation of coal:-story of the formation of coal in its simplest form. Conglomerate.

Grade VIII.

Physics.

- 1. Review of work of grade VII. The experiments in heat are here to be and performed quantitatively as far as possible. Barometer, diffusion of gases, and Boyle's Law reviewed with a fuller discussion of their uses in the industries.
- Pumps—Common Lifting and Force—introduced and their construction and action explained.
- 3. Experiments in the weight of equal volumes of different substances Specific gravity and its application.
 - 4. Mechanics and Machines.
 - (1). Experiments with levers to show their uses and advantages. Bring out the relation between lengths of arms and loads.
 - (2). Classes of levers. Illustrate by models and, as far as possible by practical application in marking by practical application in machines.
 - (3) Experiments with the wheel and axle and windlass to bring out construction, relation of parts were also and windlass to bring out. construction, relation of parts, uses and advantages. Here note particularly their practical application ticularly their practical application.
 - Experiments with inclined plane to bring out the relation of poner esistance to height and length of clariand resistance to height and length of slope.
 - Screw-construction and practical application 5.

All the work outlined above must be thoroly illustrated by experiments its practical application to modern industry. and its practical application to modern industry clearly pointed out.

Gradé VIII.

Physical Geography.

Thoro review of work of seventh grade with a much more detailed treatment.

Earth-solar system, history of descent of anything the sub-Earth-solar system, history of descent of earth from a body like the sus.

The sea and sea shores, sea deposits. Movements of the earth's crust of folding, faulting, earthouskes volcen folding, faulting, earthquakes, volcanoes, underground structures volcanic origin. Glaciers; glacial history of Nova Scotia.

Different kinds of rocks;

Aqueous:—Conglomerate, Sandstone, Millstone Grit.

Fireclay, Marl. Limeston.

Earth's history as told by geology

Common fossils, kinds and significance.

Recent:—Quaternary (appearance or man), Tertiary (age of maging mals), Cretaceous large of maging and account mans) Simplified story of various ages.

Primary:—Carboniferous (age of luxurious vegetation), Cambrida (age of fishes), Silurian (age of shell fish),

(age of simple life, worms of controls)

Foundation:-Archaean.

How to know common minerals such as pyrite, quartz, calcite, mica, hematite magnetite, chalcopyrite, fluorite and galena.

This course, which at the option of any school board can be substituted for the corresponding work of the regular course of study for the public schools, will be this event. optional will probably be extended next year into grade IX. In this event, optional examination papers will be provided, to be taken as substitutes for the corresponding regular high school papers of grade IX.

Examination papers, for candidates taking these substitution subjects instead of the corresponding ones of the regular course.]

^{219.} PROGRAM FOR RURAL SCHOOLS WITH ONE TEACHER.

Covering Grades I to VIII of the Common Schools.

[The work presented in each class should occupy in general two years.]

Dupils coming into the class for the first time should be marked in the Register as of the lower grade. All the pupils whom the teacher thinks ikely to be promoted to the next class next year should be marked as of the higher grade in the Register.

Inspectors may recommend this course for other schools where they deem it

Teachers shall file a time-table with inspectors as soon after opening school as convenient, but not later than October 1st in each year.

Physical drill must be given twice daily in all classes.

Class 1. (Grades I and II).

Reading:—Not less than three lessons daily, chiefly from blackboard while rimes: the Primer is used. Words—names of familiar objects and sentences from the words. DL is used. Words—names of familiar objects and sentences from the Words. Phonetic practise, word building, sounds of the letters derived from the ords. N.S. Reader—Primer. Continued drill in word analysis and word build-both oral and written. Spelling and meaning of all words used. Use script or witten forms of the letters from the beginning.

Note. Teachers should avoid teaching the names of the letters to beginners. Teachers should avoid teaching the names of the letters to beginners. Are familiar with letters should be learned from the words. Not until children the letters should they be given the names. are sounds of the letters should be learned from the words. Not unenare familiar with the sounds of the letters should they be given the names.

Language:—Daily. Sentence building, story telling, conversation between the and children's homes. Corteacher and pupils centering around nature topics and children's homes. Correcting and pupils centering around nature topics and children's nomes.

Summary of stories of speech. Recitations from memory of select passages.

Children should be encouraged to express Summary of stories read by teacher. Children should be encouraged to express themselves from the stories read by teacher. themselves freely, concisely and in sentences.

Writing: Daily. Forms of letters taught from blackboard. Careful copying steers. Wood Daily. of letters.—Daily. Forms of letters taught from blackboard. Careius copying that composes and sentences. Free-arm practise in repeated ovals as a, strokes composes and sentences. Connecting these to form letter and that compose m and n, the letters i, e, etc. Connecting these to form letter and Prescribed copy-books 1 and 2.

Drawing:—Daily. Stick-laying and drawing the designs thus formed. In Augsburg's or Prang's. Drawing of leaves, buds, roots, fruit, trees, in outspould, in mass drawing with arrayala and pencil. Original designs. Pupils h Augsburg's or Prang's. Drawing of leaves, buds, roots, fruit, trees, in outself, or in mass-drawing with crayola and pencil. Original designs. Pupils be encouraged to a contract designs and draw them. be encouraged to create designs and draw them.

Arithmetic:—Daily. Numbers up to 1000. Ideas of number developed from objects. Units, tens and hundreds developed. Addition, subtraction, multiplication, and division developed orally, beginning with small numbers and division developed orally. advancing gradually as pupils become familiar with smaller combinations. . of tens. Daily drill orally in the four rules. Counting by twos, threes, and fouretc. Analysis of numbers into units, tens, hundreds, etc.

Note. During the first year pupils should not deal with numbers beyond 50. They should be given short oral drill two or three times each day so that they may become thoroly familiar with the combinations of these numbers instead of forming the habit of counting which the combinations of these numbers instead of forming the habit of counting which is a counting w ing the habit of counting, which is neither rapid nor accurate. Insist on absolute

accuracy from the beginning in every attempt.

Nature:—Daily. Talks with the children on Seasons. Points of compassion in winter and in support The sun in winter and in summer. Frost, rain, snow, sky, weather, etc. Growth of plants, etc. Birds, insects; substances, heavy and light. Colors as red, blue, green, vellow. Elementary bygions, core of course to the colors as red, lines, green, yellow. Elementary hygiene; care of eyes, teeth, mouth, nose; cleanlines, drinking cups, etc. drinking cups, etc.

Music:—At least three times daily. Inspectors should not accept any excuse for absence of singing in a school. Simple songs by rote.

Note. There will always be some and if

Note. There will always be some pupils who can lead the singing, even if eacher cannot do so the teacher cannot do so.

Class 2. (Grades III and IV).

Note. Before beginning a reading lesson teachers should see that all publisher seats have work to do and under the seats have in their seats have work to do, and under no circumstances whatever, should they give their attention to anything also while the state of the state give their attention to anything also while the reading lesson is being conducted.

N. S. Reader—Second Book. Special attention

N. S. Reader—Second Book. Special attention must be given to pronuncial expression, the meanings of words and to the state of the state tion, expression, the meanings of words and to the story of the lesson. Spelling, partly oral but chiefly written. Pupils should be able to give a good summary of each lesson before it is passed over, and should be encouraged to get and use a small dictionary.

Language:—Daily, as in preceding grades. Story telling, short summary of reading lessons. The summarizing of stories read by teacher and of oral lessons. Correcting wrong forms of speech. Here the summary of speech the s lessons. Correcting wrong forms of speech. Use of capital letters and common punctuation marks as illustrated in reading lessons, etc. The "Sentence" should be fully understood at this stage.

This work should be largely oral at first and later both oral and och pupil should have an everging beat first and later both oral and och pupil should have an everging beat first and later both oral and och pupil should have an everging beat first and later both oral and och pupil should have an everging beat first and later both oral and och pupil should have an everging beat first and later both oral and och pupil should have an everging beat first and later both oral and och pupil should be largely oral at first and later both oral and och pupil should have an everging beat first and later both oral and och pupil should have an everging beat first and later both oral and och pupil should have an everging beat first and later both oral and och pupil should have an everging beat first and later both oral and och pupil should have an everging beat first and later both oral and och pupil should have an everging beat first and later both oral and och pupil should have an everging beat first and later both oral and och pupil should have an everging beat first and och pupil should have an everging beat first and och pupil should have an everging beat first and occurrence of the contract of the cont written. Each pupil should have an exercise book for language to be examined by inspector, parents or any visitor.

Writing:—Daily. Practise in free hand movements of the elements posing letters. Copy books 3 and 4.

Note. Writing should be a single property of the elements of the elements

Writing should be carried on by the whole school at the same times the should give the lesson has a same times. and the teacher should give the lesson her undivided attention.

Drawing:—Daily. Mass-drawing with crayola. Easy outline drawing truits, roots leaves but the crayola. Practise in drawing truits, roots, leaves, buds, outlines of animal forms, etc. figures, borders, original designs. Drawing of triangle, square, rectangle, etc. Using these to introduce outline drawings of tents, barn, basket, bird cage, or Grouping of familiar objects such as posts, trees, camps, etc. Augsburg Prang's. Teachers should not attempt to represent solids until pupils have principles of perspective clearly outlined

Prang's. Note.

Arithmetic:—Daily. Notation and numeration continued up to rapidity. Daily class drill in four fundamental rules to secure accuracy and rapidity. Analysis of numbers. Long division. Idea of fractions such as halves, fourths, etc., developed orally. Factoring division by account measuring feet, inches estimation. fourths, etc., developed orally. Factoring division by cancellation; measuring feet, inches; estimating lengths, distances, weights, time, etc.; dollars and cents (N. S. Com. School Arithmetic to p. 63.)

Geography and History:—(On alternate days). Geography of Nova Scotia orally and from map. Map of Nova Scotia by pupils. Natural resources, industries, products, leading ports and lines of railways, etc. Stories of early settlers and explorers orally.

Nature:-Daily. Work of class I extended. Day and night. The seasons. Nature:—Daily. Work of class I extended. Day and night. The seasons. Sprouting of seeds and bulbs. Observing buds and blossoms, dispersal of seeds. Evergreen trees, cones, etc. Weeds injurious to farmers. Life history of one or two insects, as the housefly, cabbage worm, currant worm, potato bug, etc. Hygiene; pure air, breathing, pure water, alcoholic drinks, etc. The leading minerals of the carrier of the minerals of the province.

Music: As in Class 1, with elementary facts of musical notation and time. Tonic sol-fa, or staff notation.

Class 3. (Grades V and VI).

N. S. Reading:—At least one lesson daily. See Note under Class 2 Reading. of Word Reader—Third Book. Attention to expression, punctuation, meanings of Words and interpretation of literature of the lesson. Substance of lessons given orally by the pupils. Spelling, written and oral, of all words used.

Language:—Written sketches of lessons read. Sketches of stories read by teacher. Letter-writing. Sketches of lessons read. Sketches of sentences. Parts of speech. Parts of sentence. Punctuation reviewed and extended. Parsing and analysis begun.

Writing and Drawing:—Alternate days. See note under writing, Class II. Copy books Nos. 5 and 6.

Drawing:—Principles of perspective fully taken up and illustrated by drawings.—Principles of perspective runy taken up and distances in a series, such as rectangular solids, house, roadway, trees at different distances. Teachers in a field, etc. Model and object drawing, with crayola and pencil. Teachers can easily, etc. Model and object drawing, with crayola and pencil. can easily secure a variety of models such as cup, ink bottle, vase, pitcher, knife, hammen hammer, etc. Easy designs as in wall paper, book covers, etc. Easy drawings and scale with measurement. Augsburg's or Prang.

Arithmetic - Daily, Work of Class 2 thoroly reviewed. Vulgar and decimal, reduction, weights and measures thoroly taken up and reviewed, making out of bills. Canadian money, square measure, cubic contents.

Note. Not less than ten minutes daily should be devoted to class drill and explanations in connexion with the different subjects taken up, in addition to the regular desk work period.

Geography and History:—Alternate days. Geography of North America with the Dominion of Canada in deatil, orally at first, later from the book. Map of North American State of Canada in detail. Our trade relations with of North America and Domionon of Canada in detail. Our trade relations with other consumers and Domionon of Canada in detail. Our trade relations with other countries. Our resources, industries, routes of travel, seaports, etc., fully taken up. History of Canada orally.

Note. Highroads of History at

Sons), should be on every teacher's desk. Highroads of History and Highroads of Geography (T. Nelson &

Nature: As in Class II continued. Heat effects—expansion, ventilation, business and the continued of the later from the book. Combustion. Buoyancy of fluids. Hygiene, orally at first, later from the book.

Music:—As in Class II with corresponding advance

Class 4. (Grades VII and VIII).

N. S. Reading:—Daily. (See note Reading Class 2) Prescribed Reading. Select Reader—Fourth Book. Critical study of passages read. Memorizing of pupils passages. Spelling, oral and written. Teachers should take care that read clearly distinctly and with expression. pupils read clearly, distinctly and with expression.

Language:—Daily. Letter writing, weekly essays and sketches. Parts of speech fully taken up. Synthesis of sentences Parsing and analysis extended. Phrase and clause functioning \(\varepsilon\) noun, adjective, and adverb Different kinds of sentences, paragraph figures of speech. Text: Goggin's New Elementary Grammar (Educ. Book Co.)

Writing:—Practise in free arm movements with attention to spacing and to uniform height and slope. Prescribed copy books Nos. 7 and 8.

Drawing:—Practise in perspective as in Class 3. Drawings from natural objects, flowers, fruits, trees etc Decorative drawing, wall paper, oil cloth, book cevers, borders, rugs Sketching from nature. Augsburg's or Prang's.

Note. Pupils in this class might use colored crayolas with good effect.

Arithmetic:—Thoro review of Class 2 and Class 3 Special review of fractione, vulgar and decimal. Weights and measures, percentage, interest, taxes, discount, insurance, stocks, debentures. Promissory notes, bills of sale, mortgages, draits, bills of exchange, etc., cheques, etc., day book, cash-book, ledger, posting of simple accounts, algebraic notation, evaluation of formulae uxing x to solve easy problems as equations. (Arithmetic text completed and reviewed) Marshall's Book-keeping (MacKinlay).

Note. Not less than twenty minutes daily should be devoted to class drill and explanations of the principles involved in each subject, in addition to the regular data.

lar desk work.

Geography and History:—Afternate days. Countries of North and South America, especially those of commercial importance. Europe, especially British Isles, France, Germany, Asia and Africa—those of commercial importance. Climatic phenomena, commercial geography, land routes, means of transportation, peoples, products. governments, trade relations, postal system, etc.

History of Canada in detail. Federal and provincial governments. sponsible government. English history from George III to present time.

Nature:—Hygiene completed and thoroly reviewed. Chemistry of air, flame, water. Simple electrical effects. Conduction of heat. Insects injurious to plants, injurious weeds and how to exterminate them, study of rocks and minerals, birds, etc.

Music:—As in previous classes, but with a corresponding advance.

Note. While the singing will be common with all the classes, advanced pupils should be given lessons in musical notation sufficient to enable them read simple music correctly in either the tonic sol-fa or staff notations.

A specimen of time-table for such a school used to be published from year to year in the "Journal of Education." Teachers desiring such an aid in the preparation of their time-table should turn up the files of old "Journals" kept in the school library.

222. COUNTY ACADEMY ENTRANCE EXAMINATION 1916.

The regular mode of admission into county academies shall be by an entrance examination in the last week of the school term in June, mainly on the subjects of Grade VIII. There shall be six subjects of examination as follows, the questions being sent out from the education office:—(1) Reading—to be tested by the ual or class exercises, or from reliable certificates, to be able to sing especially when they have a practical acquaintance with any system of musical notation, iner, provided the Reading is passable. (2) Language. (5) Drawing and Africa, Oceania In detail with a review of Canada and History of Canada as in five families, Crowfoot, Rose, Heath, Violet and Lily; with the important native Elementary Agriculture—"First Year Course' and "Common Weeds."] (b) birds. (d) School Hygiene. (e) Mechanic or Domestic or Rural Science. (f) Mathematics.

Bictation of memorized literature and correct writing of a list of commonly mispelled words may be required.

SPECIAL PRESCRIPTIONS FOR HIGH SCHOOL GRADES.

223. HIGH SCHOOL PROMOTIONS.

- (1) Description by drawing as well as by writing may be ity or clearness may be gained.
- be an average of 50% with no mark below 30% on a group of six with no subjects for grades IX, X and XI; and a group of nine papers of 30% for grade XII.
- 60% (3) Generally the "Teachers' Pass" shall be an average of group of a group of six subjects in grades IX, X and XI; and on a (in the case of two papers an average of 40%). 50% however must be made on English in each grade for a "Teachers' Pass."
- or nine papers indicated in (2) and (3). In such cases the pass' shall be determined by the group including the highest in special regulations which refer to it elsewhere, as well as the regulations above.

- (5) Two hours shall be given at examination for each paper which shall contain eight questions.
- (6) When a candidate wishes to raise a "High School Pass" to a "Teachers' Pass", he shall be required to make an average of at least 60% on each subject not previously up to this standard. That is, a "Teachers' Pass" by partial examinations will require at least sixty per cent. on every subject. This can be necessary only when a candidate is not writing for higher grade, and therefore all such supplementaries can be taken on the papers of the regular examination.
- (7) The "High School Pass" admits to the corresponding class in the Provincial Normal College, whose faculty can raise it to the "Teachers' Pass" on evidence of improved scholarship without which the Normal diploma cannot be awarded.
- (8) Candidates for Grade XII certificates (High School Pass) who fail on account of being too low in not more than two subjects, but who have made the High School average pass on the other subjects and 50% on English, shall have the privilege of completing the pass at a subsequent examination by making at least 50% on each of the nine papers not previously up to this standard and 60% on English.
- (9) Candidates for Grade XII certificates (High School Pass) who fail on account of being too low in not more than two subjects, but who have made a high school average pass the other subjects and 50% on English, shall have the privilege of completing the teachers' pass at a subsequent examination by making at least 65% on English, and 60% on each of the nine papers not previously up to this standard.
- (10) From one to three points may be added by the examiner for specially good writing. Bad writers have no right to be admitted to an examination except on certificate of physical defect, and if examined, the papers are subject to a deduction of marks. One point shall be deducted for every mis-spelled word.
- (11) The High School subjects to be taught in a rural, of incompletely graded high school, shall be determined (subject to the school law) by the school board in agreement with the principal, with an appeal to the Inspector and from him to the Council, in case of disagreement or dissatisfaction.
- (12) Any subject deemed to be of importance in any community may be put on the program of a school by the school board, with the consent of the Education Department.

- XII with less than a staff of four regularly employed high school teachers.
- Grade IX, may take the IX French paper instead of the regular one in Grade X and the X French paper in Grade XI, provided a 60 or 50 per cent. mark is made respectively for a Teachers' or a High School pass in each case. But the substitution of a lower grade work for that of a higher will be allowed under no other conditions than specified above. The candidate should state this fact in his application for examination as well as in his final examination declaration so as to allow of its verification.
- ed with the probable future requirements of pupils by consultation with them and their parents or guardians, before advising the selection of the optional subjects. Those who are likely to attend the universities, etc., should select the subjects required for matriculation. The same policy will apply to other vocations.

their professional preparation at the Normal College should, as far as possible grades. Postponement of the study of these branches till the Normal College of the Normal College, but, later, as a teacher in the public school." Reg. IV.

or a High School certificate of grade XI, with a teachers' pass in the science subjects of grades IX, X, XI, or their equivalents." Reg. 261 (b) C. P. I.

one foreign language during each year of the high school course; and where more than one foreign language is taken, the Board recommends that one of these languages be Latin. The Board considers that a knowledge of Latin and another language by all teachers is highly desirable.")

224.—HIGH SCHOOL PROGRAM.

For the Year Beginning August, 1916.

in the price list of the Nova Scotia School Book Bureau; page 138).

Grade IX.

(English and any other five subjects imperative).

Reader by Marty (Can. Pub. Co.), from page 169 to the end

of book, including the introductory chapter on the "Principles of Reading," with critical study, word analysis, prosody and recitations. (b) Composition:—Ontario High School English Composition (Copp, Clark) Part 1, pages 1-159, with essays, abstracts and general correspondence so as to develop the power of fluent and correct expression in writing. (c) Grammar:—N. S. English Grammar (MacKinlay) except notes and appendix, with easy exercises in parsing and analysis.

2. Latin:—Ontario High School Latin Book by Robertson and Carruthers (Educ. Book Co.), to end of Lesson XLII, page 152, omitting the (B) exercises.

[The Roman (phonetic) pronunciation of Latin is to be used. Great care should be taken from the very beginning to teach the student to pronounce accurately, giving attention both to quantity and accent, and to read the Latin fluently and intelligently. The various work-lists thruout the book should be thoroly mastered with a view to the acquiring of a good working vocabulary. Recitation of memorized passages and conversation should be practised in every foreign language studied.!

- 3. French:—Ontario High School French Grammar by Fraser and Squair (Copp, Clark), Lessons I to XXX inclusive. Bertenshaw's First Conversational French Reader (Longmans), Lessons 1 to 30 inclusive.
- 4. **Geography**:—Physical and Astronomical. Calkin's General Geography (MacKinlay), for general geography of continents and British Empire in detail.
- 5. Arithmetic:—Academic Arithmetic (Allen), to page
- 6. Algebra:— N. S. High School Algebra (MacMillan), to page 164, inclusive
- 7. **Drawing:**—(a) Morton's Mechanical Drawing (Allen), with the construction of the figures in Euclid, Book 1.
- (b) Model and object drawing and Thompson's Manual Training, No. 2 (D. C. Heath).
- 8. Science:—(a) Botany:—Bailey's Beginners' Botany (MacMillan), and the study of the Wild Plants of the Phenological Observations, with the more common ferns detail. (Spotton's Botany contains the most concise flora yet published for the use of students).
- (b) Agriculture:—Brittain's Elementary Agriculture and Nature Study, M. P. Edition (Educ. Book Co.), "Second Year," Course, pages 115 to 243.

[The "first year' course and the closing chapters of the book on growing" and "common weeds" will be valuable for general reading as for the practical application of Botany—and for the teacher in giving Study lessons in Grade VIII.]

Grade X.

(English and any other five subjects imperative).

- 1. English:—(a) Literature: The same as in Grade IX, but more advanced scholarship required. (b) Composition: Ontario High School Composition, Part II, pages 160 to end of book, with special attention to the development of readiness and accuracy in written narrative, description, exposition and general correspondence.
- Silas Marner by Herrick (Longmans).
 - (d) Grammar:—N. S. English Grammar complete.
- XLIII, to the end of page 299, omitting the B and C exercises.

The Roman (phonetic) pronunciation of Latin is to be used. Great care should be taken from the very beginning to teach the student to pronounce accurately giving attention both to quantity and accent, and to read the Latin thoroly and intelligently. The various word-lists thruout the book should be Recitation of memorized passages and conversation should be practised in every foreign language studied.]

- 8. Greek:—White's First Greek Book (Ginn & Co.), lessons I to end of XL.
- 4. French:—Ontario High School French Grammar, Lessons First Conversational Reader, lessons 31 to end of book, including the section on "Conversation."
- Co.), first 25 exercises, with Buchheim's Modern German Reader, part I (Ox. Univ. Press), first division only.
- by Wrong (MacMillan), from Chapter IX to the end of the fined. (The provincial examination questions shall be conbered by the pupils in class.) Oral lessons by teachers based on Canadian Civics, N. S. Edition (Copp, Clark).
- 7. Chemistry:—Evans' Elementary Chemistry for High (Educ. Pub. Co.), omitting Chapter XV.
 - 8. Arithmetic:—Academic Arithmetic complete.

9. **Algebra**:—Hall & Knight's *Elementary Algebra* (Mac-Millan), Chapters XV to end of XXV, omitting examples XVI (e), XVIII (b), XXIII (b), XXIII (c).

[For 1917-18 N. S. High School Algebra, pages 165 to 292, both inclusive.]

10. **Geometry**:—Hall & Stevens' School Geometry, Part I (MacMillan).

Grade XI.

(English and any other five subjects imperative).

- 1. English:—(a) Meiklejohn's Outline of the History of English Literature (Meiklejohn). (b) Literature:—Macaulay's Life of Samuel Johnson by Buehler (Longmans) and Shakespeare's Julius Caesar (Longmans). (c) For outside reading and theme writing: Stevenson's Kidnapped (Cassell).
- 2. Latin:—(a) Grammar and easy composition partly based on prose Authors read. (b) Caesar's De Bello Gallico, Book 1 and Vergil's Aeneid, Book 1; with grammatical and critical questions. (c) D'Ooge's Latin Composition Part I, based on Caesar (Ginn & Co.), first 46 lessons. (d) A thoro review of the accidence and syntax of the previous Grades IX and X.

[A knowledge of the elements of prosody sufficient for the scansion of the dactylic hexameter should be imparted by the teacher. The student should be taught to scan easily and accurately with attention to the meaning as well as the metrical form of the verse; and a few short passages of the Aeneid should be memorized, such, for example, as lines 148-155, 198-9, 210-3, 210, 462, 574, 630-1

- 3. **Greek**:—(a) Grammar and easy composition based partly on author read. (b) White's First Greek Book to end of Chapter LIX. (c) Xenophon's Anabasis, Book I, with grammatical and critical questions.
- 4. French:—Berthon's Specimens of Modern French Prose (MacMillan), omitting IV, VI, IX and X. Ontario High School French Grammar, Lessons LXI-XCII, with a review of the preceding lessons.
- 5. **German**: Joynes-Meissner's Grammar, to lesson 44, with Buchheim's Modern Reader, Part I, complete. Review of Grade X German.
- 6. History:—Myers' A Short History of Ancient Times (Ginn & Co.).
- 7. Physics:—Ontario High School Physics, Parts I, II, IV, and VI. The Laboratory Manual, in the teachers hands only.

- 8. Practical Mathematics: Murray's Essentials of Trigonometry and Mensuration (Allen), omitting Part III.
- 9. Algebra: Hall & Knight's Elementary Algebra complete except Chapters XXIX, XXXV, XXXVI, XXXVIII
 (b), XXXIX (b), XL, XLI, XLII, XLIII, XLIV and XLV.
 [For 1918-19, N. S. High School Algebra complete.]
- 10. Geometry:—Hall and Stevens' School Geometry, Parts II, III and IV, omitting pages 207 to 218 and pages 244 to 246 of the complete text.

Grade XII.

(Leaving Examination).

Nine papers out of fifteen on the following twelve subjects constitute a full course. The following subjects are imperative:—English, two foreign languages, one mathematical and one scientific subject: except that those who take both hatin and Greek may omit the scientific subject and those who make an average of 70 (Teachers' Pass) or 60 (H. S. pass) on English, may omit foreign languages].

Leunsbury's Language:—Leunsbury's English (Two papers):—(a) Language.
(Macha Language (Bell), or Bradley's The Making of English Literature:—Gwynn's (MacMillan). (b) History of English Literature:—Gwynn's Masters of English Literature (MacMillan), or Pancoast and Shelley's First Book in English Literature (Holt).

[After July 1917, Pancoast and Shelley's text alone.]

- (c) Literature:—Shakespeare's Merchant of Venice (Long-Mans); Milton's Paradise Lost, Books I and II, edited by Hale (Long); Milton's Paradise Lost, Books I are Selected Speeches (Longmans); and the following extracts from Selected Speeches namely Gladstone's on Foreign Policy (Oxford Univ. Press), namely Gladstone's The Neutrality of Belgium" and "Right Principles of Foreign Policy," "Wagetiations." and Lloyd George's Policy" Sir Edward Grey's "Negetiations," and Lloyd George's International Honor."
- (d) With the following books for outside reading and theme Writing: With the following books for outside reading and fries, Stevenson's Master of Ballantrae (MacMillan), Jeffries' Longer Narrative Poems (Macmillan), and the following extracts for Narrative Poems (Macmillan), and the following Chart Stories (Oxford Univ. extracts from Selected English Short Stories (Oxford Univ. The Seven Poor Travellers," "Markheim" and "Christopherson," "Seven Poor Travellers," "Markheim" and "Christopherson,"
- Latin (Two papers):—(a) D'Ooges' Latin Prose Comhar. Latin (Two papers):—(a) D'Ooges Lann I, and Mar. Part I, lessons 47 to 85. Sight Translation. Gram-

due [Besides a careful review of the accidence as given in the grammar and the texts which are the texts w the consideration of all the ordinary principles of syntax as they are met with texts which are read, it is suggested that some special attention and systematic study be given to the following: The expression of wishes; commands and prohibitions; questions, single and double, direct and indirect; final clauses and other ways of expressing purpose; consecutive clauses, causal clauses; conditional clauses; independent uses of the subjunctional clauses. clauses; independent uses of the subjunctive; the main principles of the indirect discourse.]

[It is recommended that more time be given in class to sight translation

and composition.

- (b) Caesar's De Bello Gallico, Books II, III and IV; and Vergil's Aeneid, Book II; with questions on grammar and subject matter.
- 3. Greek (Two papers):—(a) White's First Greek Book. complete and reviewed. Sight Translation. Easy Composition partly based on the prose author read.

(b) Xenophon's Anabasis, Books II and III, with ques-

tions on grammar and subject matter.

- 4. French:—Sandeau's Sacs et Parchemins by Pellist sier (MacMillan); Corneille's Polyeucte by Braunholtz (Pitt Press); Augier & Sandeau's Le Gendre de M. Poirier by Preston. (Blackie & Son); with questions on grammar and composition, Ontario High School French Grammar complete.
- 5. German:—Buchheim's Modern German Reader, 12 lm II, to end of selection 10, second division; and Schiller's Wilhelm Tell by Carruth Acta I II III Tell by Carruth, Acts I, II, III and IV (MacMillan). Meissner's Grammar for Grammar and Composition.
- 6. Algebra:—Hall & Knight's Senior Matriculation Algebra (MacMillan). (A reprint of the first 19 chapters of the old and larger text) the old and larger text.)
- 7. Geometry:—Hall & Stevens' School Geometry, Parts and VI. omitting pages 200 V and VI, omitting pages 306 to 310 and pages 411 to the end, of the complete toxt end, of the complete text.
- 8. Trigonometry:—(a) Plane: Murray's Plane and Sprant (Longmans) (b) Shire Plane: Murray's Plane herical (Longmans). (b) Spherical: Murray's Plane and Spherical, Chapters I, II, III and IV.
- 9. Physics:—Ontario High School Physics complete and ratory Manual. Laboratory Manual.
- 10. **Botany**:—Bergen and Davis' Principles of Botony cMillan). (MacMillan).
- 11. Chemistry:—Newell's General Chemistry, Parts 1
 II (one volume) (Heath & Carlo and II (one volume) (Heath & Co.).
- 12. History:—Myers' A Short History of Medieval and Modern Times (Ginn & Co.). The two history texts for School XI and XII bound in one volume XI and XII bound in one volume may be had from the School book Bureau.

NEW BOOKS.

List of Books received at Education Office and by the Advisory Board, since publication of the Journal of Education, October, 1915.

G. BELL AND SONS, LIMITED, LONDON.

Caesar's Belgian Campaign, by S. E. Winboldt, 1915, pp. 107, 6\frac{1}{2}x4\frac{2}{3}, 1/6.

Books of Britain and The Emperors, Book 1, by C. E. Marchant, 1915, pp. 96, 61x43, 1/.

Elementary Studies in Plant Life by Fritch & Salisbury, 1915, pp. 194, 71-5,

THE COPP, CLARK COMPANY, LTD., TORONTO, ONT.

High School Chemistry, by Ellis, Revised by Hodgson, pp. 198, 5x73, 50 cents. High School Chemistry, by Ellis, Revised by Hodgson, pp. 130, 0814, 00 cents. Britannia History Reader, Introductory Book, pp. 261, 5x7½, 25 cents. Britannia History Reader, Book I, pp. 229, 5x7½, 30 cents Hygiene for Young People, by Knight, pp. 211, 5½x7¾, 25 cents. Narrative and Lyric Poems, First Series, by O. J. Stevenson pp. 174, 5x7½, cents

25 cents.

Narrative and Lyric Poems, Second Series, by O. J. Stevenson, pp. 170, 5x71, 25 cents.

Laurente Poetry Books, I to VIII, pp. 48, 4\frac{3}{2}x7, each 5 cents.

A Class and Field Book, pp 188, 7\frac{1}{2}x8\frac{3}{4}, 65 cents.

Mason's New English Grammar, Junior, Revised by A. J. Ashton, pp. 117, 5x71, price 1/-

Mason's New English Grammar, Intermediate, Revised by A. J. Ashton, pp. 218, 5x74, price 40 cents

Mason's Senior English Grammar, Revised by A. J. Ashton, pp. 382, 5x74. Price 3/6.

CAMBRIDGE UNIVERSITY PRESS.

Henry Button, Agent in Canada, Toronto, Ont.

English Grammar for Beginners, by West, pp 120, 43x63, 1/-. A Book of Verse for Children, Parts I-III, by A Rodgers, 43x7.

J. M. DENT AND SONS, LTD., LONDON.

Henry Button, Agent in Canada, Toronto, Oni

A Book of Patriotic Verse, Pro Patria, by W. J. Halliday, pp. 220, $5x7\frac{1}{2}$, 2/6. Green's Short History of the English People, Vol 1, pp. 430, $4\frac{1}{2}x7$, 1/-. The Way to Health, Part I. Junior, pp. 136, $5x7\frac{1}{2}$, 10 cents. An Epitome of English Grammar, pp. 77, $5x7\frac{1}{4}$.

GINN AND CO., BOSTON.

A Practical English Grammar by Prince, pp. 256, 7½x5½, 60 cents. 7½x5 or Beginners, by Buskett, Hevens and Hill, Revised Edition, pp. 255, 7 2x5, 80 cents.

EDUCATIONAL BOOK COMPANY, TORONTO, ONT.

Junior History of Canada, by Hendrie, pp. 311, 7½x5½ 45 cents History of Canada, by Gammell, pp. 296, 7½x5½, 50 cents. Warner's Short History of Great Britain, by Frier, 326, 7½x5¼, 40 cents.

Latin Lessons for Beginners, Manitoba Edition, by Robertson and Carruthers, 71x51, pp. 398, 75 cents.

Nature Study and Agriculture, Maritime Provinces Edition, by John Brittain,

pp. 318, 75 cents.

Elementary Agriculture and Nature study, by John Brittain, pp. 184, 50 cents.

EDUCATIONAL PUBLISHING COMPANY, BOSTON, MASS.

Eliot's Silas Marner; Shakespear's Julius Caesar; Shakespear's Merchant of Venice; Macaulay's Life of Johnson; Burke's Conciliation with America, each 41x61, pp. vary, paper 15 cents; cloth 25 cents.

(From MacMillan Co., Toronto.)

Standard Classic Readers, each 72x5, Book I, pp. 320, 40 cents. Book 2, pp. 384 45 cents, Book 5, pp. 415, 50 cents. Standard Classic Readers, Fifth Reader, 71x5, 40 cents.

MEIKLEJOHN AND SONS, LIMITED, LONDON,

Professor Meiklejohn's Series, each 7x5, limp, each 0/6, as follows; The British Colonies and Dependencies; Asia; Australasia; North and South America; Europe, pp. generally 96. Outlines of the History of England and Great Britain; Africa, pp. 80, 7x5, 0/4.

A Short Geography by Meiklejohn, 1915, pp. 190, 71x5, 1/.

A Short History of England and Great Britain, pp. 266, 74x5, 1/. The British Isles, First Edition, 1915, pp. 94, 7x5, 0/6.

Meiklejohn's Modern Arithmetic, Books 1 to 7, limp, each 71x43, pp. vary

prices 0/2 to 0/6 each. New Handlook of English, Books 1 to 6, 71x41, pp. vary, prices 0/2 to 0/5.

Simple Lessons in English Grammar, in three parts, each 7x4\frac{1}{2}, pp. vary. A Short English Grammar, by Meiklejohn, 7\frac{1}{2}x5, pp. 174, 1/. A Short Arithmetic, by Christian & Baker, pp. 218, 7\frac{1}{2}x5, 1/6.

MACMILLAN CO., LIMITED, LONDON AND TORONTO.

Golden Rule, Book I, pp. 160, 71x5, 20 cents. Golden Rule, Book II, pp. 256, 71x5, 30 cents. Golden Rule, Book III, pp. 352, $5\sqrt{7}\frac{1}{2}$, 35 cents.
Golden Rule, Book IV, pp. 315, $7\frac{1}{2}$ x5, 40 cents.
The New Stoan Reader, Second Reader, 1915, pp. 155, $7\frac{1}{2}$ x5 $\frac{1}{2}$, 55 cents.
The New Stoan Reader, Manual, 1915, pp. 68, $7\frac{1}{2}$ x5 $\frac{1}{2}$, 25 cents.

Muscular Movement Writing, Elementary and Advanced Books, by C. C. Ligter, 66 and 94 81v41 pp. 66 and 94, $8\frac{1}{2}$ x $4\frac{1}{2}$.

Steps to Literature, Fifth Reader, pp. 439, 5x71, 40 cents. The Lay of the Last Minstrel, ed. by J. C. Saul, pp. 123, 43x63.

Rip Van Winkle, Washington Irving, pp. 115, 43x63.

The High School Arithmetic, pp. 305, 5x7\frac{1}{2}, 40 cents.

Outline of English Grammar, by J. C. Nesfield, pp. 19+168, 4\frac{1}{2}x7.

Modern English Grammar, by J. C. Nesfield, pp. 20+272, 4\frac{1}{2}x7.

McCLELLAND, GOODCHILD AND STEWART, LIMITED, TORONTO.

The Teacher's Manual in Phonics, by Jean A. Weir, 5x7½, pp. 24.

JOHN MURRAY, ALBERMARLE STREET, W., LONDON, ENGLAND,

A New English Grammar, for Junior Forms, by R. B. Morgan, 5x77, 1/6.
Latin Translation at Sight by T. D. Hall, 3 R. B. Morgan, 5x77, 1/6. Latin Translation at Sight, by T. D. Hall, 4\frac{3}{4}x7, pp. 115, 1/-.

RIVINGTONS, LONDON, ENGLAND.

A Short British History, Period 1 by W. S. Robinson, 1914, pp. 180, 63x41, 1/4.
A Short British History, Period 11 by W. S. Poblinger, 1917, 63x41, 1/4. A Short British History, Period 11, by W.S. Robinson, 1914, pp. 100, 64,41 1/2.

Revision Papers in Algebra, by W. C. Borchardt, 1915, pp. 152+12,12 Macaulay's Lays of Ancient Rome by W. Edwards, 1915, pp. 205, 62x41, 1/6. 7½x5, 2/.

BENJ. H. SANBORN AND COMPANY, BOSTON.

Secondary Arithmetic, by Stone-Millis, $5\frac{1}{4}x7\frac{3}{4}$. **Essentials of Algebra**, by Stone-Millis, $5\frac{1}{2}x7\frac{3}{4}$, pp. 412.

Le Français et La Patrie, by Raymond Talbot, pp. 294, 5x7.

A Progressive Course in English for Secondary Schools, by Stebbins, pp. 366, Cassar's Gallic War, Books I-V, edited by Johnston & Sanford, pp. 55+359+

Cicero, Select Orations, edited by B. L. D'Ooge, pp. 87+406+146, 5x71.

SCOTT, FORESMAN AND COMPANY, CHICAGO.

Chicago Ari Course, Fifth Year.....10 cents.

THE FOLLOWING BOOKS ARE RECOMMENDED FOR SCHOOL LIBRARIES AND SUPPLEMENTARY READING.

COPP, CLARK COMPANY, LTD., TORONTO, ONT.

Hygiene for Young People, 25 cents. Britannia History Readers, Introductory Book, 25 cents. Britannia History Readers, Book I, 30 cents. The Heart of the Ancient Wood, by Roberts, 50 cents. Laureate Poetry Books, I to VIII, each 5 cents.

J. M. DENT & SONS, LONDON.

The Way to Health, Pt. 1, Junior, 10 cents. The Way to Health, Pt. 2, Senior, 15 cents.

MacMILLAN COMPANY OF CANADA, LTD., TORONTO,

The First Golden Rule Book, 20 cents. The Second Golden Rule Book, 30 cents The Third Golden Rule Book, 35 cents. The Fourth Golden Rule Book, 40 cents.

A Teachers' Manual which should accompany the above eties as an aid, is published at 19 cents the copy by the Copp, Clark Company of Toronto.

HODDER & STOUGHTON, LIMITED, TORONTO.

Canada in Flanders, by Sir M. Aitken, 25 cents.

232. TEXT BOOKS FOR PUBLIC SCHOOLS.

In performing the duty of selecting and prescribing text books for the Public Schools, the Council of Public Instruction has availed itself as fully as possible of the knowledge and experience of those who are engaged in the practical work of education. The sole aim of recent modifications has been to secure at a reasonable cost, a series of texts adapted for use in schools. Change in authorized books is in itself a very undesirable thing.

Instructors and teachers are reminded—

- (1) That the course of study for common schools encourages an economical expenditure for the text books by providing a system of oral instruction for junior classes. Too many teachers try to satisfy themselves in respect to their more youthful pupils by placing in their hands text books not needed in any case, and worse than useless when unaccompanied by proper oral exposition. A text book should not be required for a child until he is prepared to use it intelligently.
- (2) That the regulation which makes it illegal and improper for a teacher to introduce unauthorized texts, by no means hinders him from giving his pupils the benefit of other treatises to whose explanations he may attach importance. The progressive teacher will always have such aids within reach, and will so use them as to impart variety and interest to his instructions.

Under no circumstances however, should the teacher order the pupils to purchase these other books which are not prescribed. The prescribed text book, on any subject, is the only one the pupils are expected to purchase.

- (3) Under section 81 (e) of the Education Act, school sections can vote money for the purchase of prescribed school books and school trustees are free to arrange to distribute them to cost, at reduced price, or free to all pupils of their schools, or pupils who cannot afford to buy them.
- (4) The school trustees or school boards are the proper partial to take charge of the supply of books: for they are in continual and close touch with the school. They can allow those desire to own their books to do so; and the deserving indigent can be supplied free. Both oversight and economy can easily maintained under the management of the local trustees. This scheme may be put into practise with very little effort on the part of the trustees or members of the school board;

and a section which once voted the money for school books could have it recouped annually, and so with very little more finitely.

with the grades in which they are used, which are prescribed beginning 1 August, 1916.

BOOKS PRESCRIBED FOR COMMON SCHOOL GRADES.

" RESCRIBED FOR (COMMON SCHOOL GRADES.
.1 6 -	
N. S. Primer, Grade I., [July 1919] N. S. Reader No. I, Grade II N. S. Reader No. II, Grades III & IV N. S. Reader No. III, Grades V. S. N.	Dist 1 IN
N. S. Reader No. II, Grades III & IV. N. S. Reader No. III, Grades III & IV. N. S. Reader No. III, Grades V & VI. Acadi.	
N. S. Reader No. II, Grades III & IV. N. S. Reader No. III, Grades V & VI. Acadian Reader No. IV, Grades VII & VII	
N. S. Reader No. III, Grades V & VI. N. S. Reader No. IV, Grades VII & VII Acadian Reader No. I, Part I, Grade I. "No. I. Part II. Grade I.	
Acadian Reader No. IV, Grades V & VI. Acadian Reader No. I, Grades VII & VII No. I, Part II, Grade I. No. I, Campleta Coul.	I
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No. IV Grade IV	
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Ontario P. S. Composition, Grades VIII Ontario P. S. Composition, Grades VIII Calkin's Brief History of Canada Grades Prief History of Canada Grades Ortario P. S. Hygiene, Grades V to VIII Ontario P. S. Hygiene, Grades V to VIII Ontari	.1
Oncario P. C. Carry Grammar, Grades	V11 & V111
Canada b C Estabosition, Grades VII of	& V111 1
Brief Livers, Clades V to VIII	
Rouse Sunion Congland, Grades VI to	VIII
problem Books 1 to 12, Grade	ed Series (each) 0
Sol Brawing Books 1 to 8. Grade	ed Series(each)1
Thool Day Ming Books 1 to 8. Graded S	beries(each)1
The Comme Melodies Pts. 1 & 11. Cover	all grades (Tonic-sol-fa) (each) 1
New D School Book of Music for	Miscellaneous Schools (Staff) 4
Pugsburg's Drawing Books 1 to 12, Gradens's Drawing Books 1 to 8, Graded School Day Melodies Pts. 1 & 11, Cover The Common School Book of Music for New P. S. Music Course, (Staff not:	ation) Graded Sories
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For Teachers' Use: Reading Manual Arithmetic Manual with Readers II, III & 1	
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Llementary Agriculture 2 N	10^{-10}
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BOOKS PRESCRIBED FOR	
ratario Trigh School D	
Ontario High School Reader, Grades IX & School Reader, Grades IX & School Reader, Grades IX & X. English Grammar, Grades IX & X. Silas Marner, Grade X.	& X [July 1918]
Glot anglish Grand Composition, Grades	$SIX & X [July 1920] \dots 18$
ollas Mammar, Grades IX & X	.23
marner, Grade X	.25
S. English School Composition, Grades IX & Chool Composition, Grades IX & X. Silas Marner, Grade X.	,,.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

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Jacaulay's Life of Johnson, Grade XI		
leiklejohn's Outlines of History of English Literature, Grade XI nakespear's Julius Caesar, Grade XI		
tevenson's Kidnapped, Grade XI		
hakespear's Merchant of Venice, Grade XII		
filton's Paradise Lost, Books 1 & 2, (one vol.) Grade XII		
evenson's Master of Ballantrae, Grade XII		
offries' Longer Narrative Poems, Grade XII		
elected English Short Stories, Grade XII		
elected Speeches on Foreign Policy, Grade XII		4
radley's The Making of English, Grade XII		1
ancoast & Shelley's First Book of English Literature, Grade XII		
ntario High School Latin Book, Grades IX, X & XI.		
'Ooge's Latin Composition, Part I, Grades XI & XII		
aesar's Gallic War Book 1, Grade X1		
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" Book 2 Grade XII		
" Book 3, Grade XII		
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erthon's Specimens of Modern French Prose, Grade XI		
indeau's Sacs et Parchemins, Grade XII		
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ucheim's Modern German Reader Part I, Grade XI		
" " Part II. Grade XII.		
chiller's Wilhelm Tell, Grade XII		
ennedy & O'Hearn's Academic Arithmetic, Grades IX & X		
S. High School Algebra, Grade IX		
all & Knight's Elem. Algebra. Grades X & XI		
all & Knight's Sen Matr Algebra Grade XII		
forton's Mechanical Drawing Grade IX		
nompson's Manual Framing No. 2. Grade LA		
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ailey's Beginners' Botany, Grade IX		1
organ & Dovie' Rotony (Frado XII		1
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lyers' Med. & Mod. History, Grade XII.	volume)	1
lyers' General History (the two texts for Grades XI & XII in one alkin's General Geography, Grade IX.		
aikin s General Geography, Grade 1A	• • • •	
For Teachers' Use:		
anadian Civics, N. S. Edition		
anadian Civics, N. S. Edition		-
nt. H. S. Physics Lab. Manual. alkin's Notes on Education		
vster's Hygiene & Temperance		
alkin's Notes on Education. yster's Hygiene & Temperance lunro's Brief Course in History of Education itch's Lectures on Teaching		1 1 1
L. I. I. Tartung on Tooching		1
itch's Lectures on Teachingagley's Educative Process		

THE NOVA SCOTIA SCHOOL BOOK BUREAU.

The Nova Scotia School Book Bureau has been established by the Government in connexion with the Department of Education and is under the regulations of the Council of Public Instruction. The aim of the Bureau will be to provide the People of the Province with the prescribed school books not only at as low prices as possible, but at prices which will be uniform thruout the Province, and which also in the majority of cases will be lower than heretofore.

All books prescribed for both the common and high school grades, as well as the books necessary for the M. P. Q. examinations, are kept in stock at the wareroom of the Bureau, in the Government Building Annex, Hollis Street, Halifax, N. S. Bureau's Requisition Form. No book not on this list is kept in stock by the Bureau. Among other things this list contains the retail prices at which the books, supplied by the Bureau, dealers have agreed with the Bureau not to sell any books at a price higher than that which is shown on the Bureau's price list. The proportion of postage per copy necessary on small orders is also given.

The Bureau will supply its books to any person, dealer or otherwise who remits the necessary amount with his order, which order should always be filled in on the printed Requisition Form supplied by the Bureau. School trustees and of the pupils of the section will be supplied with the same by the Bureau on the conditions laid down herein.

IMPORTANT.—TO TRUSTEES AND TEACHERS.

All of the texts mentioned in the foregoing lists are kept trustees by the Nova Scotia School Book Bureau. School books for the use of the pupils of the section direct from to the Bureau. When school trustees or teachers send in an order and certify that the books are ordered for the use of the section, the Bureau will allow a discount of 10 per cent. from the list price of the Bureau,

Further, on all orders of Three dollars or over the Bureau conditions. The Bureau will endeavor as far as possible, to the route designated in the order received from the

teacher or trustees, but the Bureau reserves the right to ship the cheapest way, if such is considered of equal advantage with that specified in the order.

The Bureau will however, always pay the "freight" equivalent on any order of \$3.00 and over received from teachers and trustees as above, if shipment is demanded to go forward by Express or other more costly conveyance. Balance of transportation charges must be paid by person sending in the order.

The teacher or trustees ordering must, in such cases, sign the Agreement on Requisition Form, and they are at liberty to arrange to distribute the books at cost to them, or at reduced price. They must not, however, demand more than the price on the price list of the Bureau.

All orders under three dollars, ordered to be sent by post, must be accompanied by full list price—together with necessary postage per copy as on price list of the Bureau; when ordered to be sent by other conveyance full transportation charges must be borne by purchaser.

TO BOOK DEALERS.

How books may be obtained by dealers from The Nova Scotia School Book Bureau.

- 1. Dealers, when ordering books from the Bureau, should always use the printed Requisition Form, and should be very careful to fill in exactly and carefully all spaces showing number of copies, shipping instructions, name and address, etc. will obviate many mistakes that are liable to occur when orders are sent in not on the printed form.
- 2. Each and every Requisition for books must be accompanied by cash payment in full for all books ordered calculated at 85% of the prices on the list issued by the Bureau. Ment may be made by Postal Order, Express Money Postal Note, Bank Draft, Cash or Bank cheque. Bank cheques must be payable at par in Halifax.
- 3. Dealers who wish to keep a stock of the books supplied by the Bureau, to sell at retail, must sign the agreement on Requisition Form, when sending in their initial order. This agreement will cover future orders as well.
- 4. The Bureau will pay **freight** charges on orders amounting to \$10.00 (list price) or over, but purchasers are expected to take delivery from the railway, steam boat, schooner or stage company at the nearest available station or point, and to defray

thereafter the cartage or other transportation charges. On orders of \$10.00 or over to be shipped by Express, the Bureau will pay an amount equal to the freight charges, as outlined above, the difference between freight and express to be borne by the purchaser. On orders of less than \$10.00 (list price) transportation charges from Halifax to destination, by whatever conveyance, must be borne by person sending in the order. The Bureau reserves the right to ship the cheapest way if such is found equally advantageous with that specified in Requisition Form.

5. The Bureau agrees to repurchase from dealers, at the actual prices which they paid to the Bureau, all unused books on hand in good condition which had been previously purchased from the Bureau, if and when, such books cease to be prescribed for use in the schools of Nova Scotia. In this case those returning books to the Bureau must pay the transportation charges.

How books may be obtained in smaller lots.

Any person, dealer or otherwise, may obtain single copies or small lots of the books from the Bureau on sending in requisition for same. Each and every Requisition must be accompanied by payment in full for the books ordered calculated at the full prices on the Bureau's price list together with the stated amount per copy shown in column for postage. The further cost to the purchaser. (Note) It is not expected that discount they must send in full postage.

NOVA SCOTIA SCHOOL BOOK BUREAU—PRICE LIST AND REQUISITION FORM.

THE REQUISITION FORM.
Place and Date.
Nam e
Place.
Shippi. County,
Shipping Directions; Customer will please give here in full detail how books earest Express Office, name of Steamer or Schooner, etc.

No. Copies	Title of Book.	List Price	Proportion Postage Per Copy.	Total.
	Common School Grades.			
	N. S. Primer	.06	02	
	N. S. Reader No. 1	.08	.02	
	N. S. Reader No. 2	. 11		
	N. S. Reader No. 3	. 16	. 04	
	N. S. Reader No. 4	. 18	.05	
	Acadian Reader No. 1, Pt. 1	. 07	.01	
	Acadian Reader No. 1, Pt. 2	.07	. 01	
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	Acadian Reader No. 2	.30		
	Acadian Reader No. 3	.35		
	Acadian Reader No. 4	.40 .18		
	N. S. Com. Sch. Arithmetic	. 12		
	Bookkeeping Blanks (Set)	.15		
	Goggin's Grammar	.25		
	Ontario P. S. Composition	.15	04	
	Ontario P. S. Hygiene	.20		
	Brief History of Canada	.25	02	
	Brief History of England	.15	.01	
	Junior Geography	.60	.03	
	School Day Melodies, Pt. 1	.10	.01	
	School Day Melodies, Pt. 2	. 10	.01	
	Com. Sch. Book of Music	. 40	04	
	New P. S. Music Book 1	20	. 02	
	" P. S. " Book 2	.25	. 02	
	" P. S. " Book 3	. 30	02	
	" P. S. " Book 4	. 30	137	
	! " P. S. " Book 5, F	. 30	. 02	
	" P. S. " Book 5, G	.30	.02	
	Royal Crown Copy Books (ea.)	.05	.01	
	Augaburg's Drawing Books (eg.)		01	
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	Prang's Drawing Books (ea.)	. 12	.02	
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	Teachers' Books. Primary Reading Manual	.13	03	
	Books II, III, IV Reading Manual.	.26	nc.	
	Arithmetic Manual	.20	0.5	
	Syllabus Physical Exercises	.25	03	
	Song Teacher's Guide	. 30	กน	
	Augs. Drawing Manual Book I	.75	. 03	
	" " Book II	.75	.03	
	" " Book III	.75	03	
	Physics Manual	. 35		
	Canadian Civics	.35	.03	
	Calkin's Notes on Education	1.00		
	Lyster's Hygiene	1.00		
	Munro's Brief Course	1.25		
	Fitch's Teaching Bagley's Educ. Process	1.00		
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	High School Grades.	40	0.4	
	Ont. H. S. ReaderOnt. H. S. Composition	.40	06	
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†Specify numbers and quantities of each here.

No. Copies	Title of Book.	List Price	Proportion Postage Per Copy.	Total.
	Meiklejohn's English Lit	.35	. 05	
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i		1.25	. 05	
1	Merchant of Venice.	. 25	. 03	
- 1	Paradise Lost Bks. 1 & 2.	.40	. 05	
):	Sel. Speeches Foreign Policy	. 25	. 03	
J.	Sel. English Short Stories. Master of Ballantrae.	.25	. 03	
[1	Longer Narrative Poems.	.25	.03	
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- 10	Caesar Gall War Book 1 Books 2 & 3	. 50	. 02]	
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	Vergil Aeneid Book 1	901		
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12	Renophon Anabasis Book 1	201.		• • • • • • • •
- 1	Book Z			
17	" Pagle 9	.30		
- 12	Wille's Eirst Crook Rook	1.25	.05	
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i	" German Keader Pt. I	. 50	.02	
S	chiller's William on a Pt. Z	. 50	.02	
A	cademic Arith metic.	.60	. 04	
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So	Chool Geometry, Pts. I to IV.	. 90	. 05	
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11/1	urray's Essentials T. & M. urray's Plane & Sphor Trice	.80	.05	· • • • • • •
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R.	anual Training No. 2	.25	001	
B.	rittain's Elem. Agric.	.75		
Re	eginner's Botany	.50	0.51	
E	Prgen & Davis Botany	1.50	05	
N.	Vans' Elem. Chemistry	.50	.03	
On	Evell's Chemistry	1.20	^-	
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AGREEMENT TO SELL AT RETAIL AT LIST PRICES.

I,ofin the
County of Province of N S in consideration 01 475
terms offered to purchasers of school books thru or from the School Pos-
cation," 1916, under the heading entitled "The Nova Scotia School Book Bureau") do hereby promise and agree to and with the said Bureau that I will not sell or
cause or permit to be sold any of the said books at a price greater than the
list price above given.
(Signed)

To Dealers: The Bureau will not supply books to anyone violating above Agreement.

No order will be filled unless full amount necessary is received.

Dealers are allowed 15% discount on all orders.

Freight will be paid by Bureau on orders of \$10.00 (total) and upwards.

On orders of \$10.00 and upwards, ordered by Express, the Bureau will pay only the freight equivalent, balance to be borne by purchaser.

Dealer must pay transportation charges in full on all orders under \$10.00. It is not expected that dealers will order by Post. If small lots are so ordered dealers must enclose sufficient to cover full postage.

All inquiries and correspondence relating to the Nova Scotia Book Bureau should be addressed to H. R. Shinner, Manager, Nova Scotia School Bureau, Education Office, Halifax, N. S.

CADET INSTRUCTION.

Owing to the heavy expenses in connexion with the War, there will be no Cadet Instructor's Course or Cadet Camps held during this mid-summer vacation.

Corps of School Cadet Instructors.

Teachers who have qualified as Cadet Instructors and who are actually instructing a bona-fide organized and gazetted Cadet Corps, will be appointed to the Corps of School Cadet Instructors with the rank of Lieutenant in the Militia. The mere fact of holding a Cadet Instructors' certificate will not, however, be considered sufficient qualification for according Lieutenant's rank in the C. S. C. I.

A Lieutenant in the Corps of School Cadet Instructors may be promoted to the rank of Captain after having held the rank of Lieutenant in that Corps for five years, and must during that time have instructed a Cadet Corps to the satisfaction of the Inspecting Officer, and must have also attended a further course of instruction in military training, and have obtained a certificate qualifying for the rank of Captain in the Active Militia.

Such further course of military training is not, however, for the period of at least two years.

Uniform for Corps of School Cadet Instructors.

ordinary civilian sack coat length; fastened in front by two rows of four buttons c. Canadian Militia pattern.

Sleeves to be plain with two small buttons of Canadian Militia pattern at of back seam. Shoulder straps, blue cloth, with gilt metal rank badges.

TROUSERS.—Of serge to match color of jacket; no stripe at seams.

CAPE.—Forage, N. P.

As an alternative the Khaki service Uniform, officers' pattern, may be worn.

by $_{\text{other officers.}}^{\text{Uniform and equipment to be provided by the officers of the corps, as is done$

Allowances to Cadet Instructors.

For the training of a Cadet Corps during the school year, subject to the certificate of a Military Inspecting Officer that the Cadet Corps has been well instructed in the course of Military training laid down for it, an allowance of \$1.00 per Cadet may be paid annually to qualified Cadet Instructors under conditions as follows:—

(a) The above allowance will be calculated on the number of enrolled cadets present at the Annual Inspection, and in addition, those whose absence can be satisfactorily accounted

for to the Inspecting Officer.

(b) In the case of a Cadet Corps authorized subsequent to 1st of March in any year, a proportion of the above allowance, if any, that may be paid will be decided at Militia Headquarters.



CADET UNIFORMS.

The authorized Cadet Uniform consists of Felt Hat, Jacket, Service pattern of Khaki Serge or Olive Green Denim; Breeches, semiriding; Serge Puttees or Khaki Stockings. Hats and Belts are furnished by the Department of Militia and Defense. Jackets, Breeches and Puttees or Stockings are purchased by the Cadet Corps or individual members of the Corps. The prices are henceforward as follows:

Suits: Denim—\$3.00 to \$3.85 according to size.

Serge —\$4.50 to \$5.35 "

Serge Puttees 60 cents per pair.

Khaki Stockings 40 cents per pair.

This illustration of the uniform is from a photo of a sealed pattern furnished Messrs. Clayton & Sons of Halifax, N. S., by the Militia Department. For detailed description see page 82, April Journal of Education, 1913.

It has been intimated that the Department of Militia and Defense will be unable to give the usual bonus of \$1.00 for each smart and serviceable uniform shown at the Annual Inspection this year.

Cadet Corps in Schools.

It is to be regretted that in some High Schools and Academies the opportunity for the organization and carrying on of a Cadet Corps is not embraced. The fact that schools in which are the most efficient Cadet Corps, usually stand highest also in scholarship attainments, is not only an answer to those who say they have no time for such work but should be an added incentive to the carrying on of this very important branch of education.

School Boards should also realize that a definite bargain has been made with the Militia Department and financial assistance received from that Department for our teachers in both Physical and Military drill, in consideration of the encouragement of Cadet Corps in the schools. Some schools are in the schools. are living up to the agreement. Others are profiting by the increased efficiency of the teachers in physique and disciplinary ability imparted by the Physical Training Courses which they have yimparted by the Physical Training Courses which they have undergone, but are not successful in completing their side of the bargain by training Cadet Corps.

drill of all Cadet Corps, but that it will have the effect of even more interest being

Cadet Inspections.

The Annual Inspection of Cadet Corps will include the following subjects:

> (a) Physical Training or Physical Drill.

Infantry Training:-Squad, Section and Com-Pany Drill, Reconnaissance, Scouting and Skirmishing.

 $IV_{(c)}$ Map Reading and Field Sketching:—See Chapter

Manual Field Engineering:—Chapter X, Sections 57, 61, 63 and 67.

(e) Rifle Exercises, Musketry and Judging Distance. (Scores made at Musketry Practise should be produced for the information of the Inspecting Officer.)

Signalling:-A knowledge of the Semaphore al-Phabet.

(g) Ceremonial:—March Past.

Military Drill Competions.

Cadet Corps belonging to Public Schools in Nova Scotia ete eligible to compete for prizes in the Military Drill Com-Detion, given from the Strathcona Trust Fund. This competion is held at the Annual Inspection of Cadet Corps and the following is the percentage of marks to be allotted by the Inspecting Officer:—

	$\frac{30\%}{20\%}$
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50% to be allotted while the corps is under command of the Cadet Instructor and 50% while under command of Cadet Officers or Non-commissioned Officers.

Fifteen prizes according to order of merit are awarded as follows:—(1) \$50, (2) \$45, (3) \$40, (4) \$35, (5) \$30, (6) \$25, (7) \$20, (8) \$15, and seven \$10 prizes. One-half of the prize goes to the Cadet Instructor and the other half is to be invested for the benefit of the Cadets.

The prizes may be increased this year, if the Cadet Corps show an all round interest in the work and there are sufficient funds available.

Best Shot Badges-Rifle Shooting.

Under the conditions of the Strathcona Trust for Nova Scotia, Best Shot Badges will be awarded to the "Best Shot" in each Corps as follows:—

I Best Shot Badge for Sub-target Gun Practise.

I Best Shot Badge for Gallery or .22" Rifle Practise.

Instructors should keep a record of all scores made the Cadets for the information of the Inspecting Officer; and the presentation of the Badges will be made at the Annual Inspection, if possible.

Note:—Cadet Instructors are particularly urged to endeavor to have their Corps proficient in the training laid down in the Syllabus, as far as their equipment etc., will allow allow. This will enable the Inspecting Officer to make all due allow ance for that part of the training the Corps has been unable to cover due to no fault of the Instructor.

It is hoped therefore that all Corps will turn out for Inspection and do their best, never minding under what disadvantageous circumstances some may have been laboring.

Sub-Target Gun Machines.

- (1) It is the desire of the Militia Department to place sub-target gun machines in those educational institutions which may have a teacher qualified as a military instructor.
- (2) The space required in which to set up a sub-target rifle machine is 611 feet from the center of the base of the target, plus 5 or 10 feet for the recruits
- In many cases this accommodation is not available and it is suggested that these machines might be usefully employed in smaller space by,
- $\binom{(a)}{b}$ placing the target at the prescribed distance outside the building and aiming thru a window.
- reflection of the target in a mirror placed on the wall at half the prescribed distance.
- (3) Forms for application for these machines may be obtained from the Organizer and Inspector, Cadet Corps, Halifax, N. S.
- When sub-target gun machines are out of working order, and the instructor is not able to make the repairs a report to this effect should be made to the San is not able to make the repairs a report to this effect should be made to the Senior Ordnance Officer, Halifax, N. S., so that an expert may be sent to place the machine in working order.

Cadet Corps Stores.

All stores on charge to Cadet Corps, including Rifles, Hats, Belts, Flags, Drill Books, etc., must be produced at the Inspection of Corps, and so arranged as to be readily counted by the Inspecting Officer. Deficiencies in stores will be chargeable to the Cadet Instructor.

Principals of schools where Cadet Corps exist will assist the Militia Department to a great extent if on changing their residual potify the O. & I... residence at close of school year they will notify the O. & I., Cadet Corps, Halifax, N. S., in order that they may receive included the corps of t instructions as to the disposal of Cadet Stores. In any case the stores should be handed over to the School Board for safe keeping during the mid-summer vacation.

Promotions.

Corps of School Cadet Instructors have been promoted to the rank of Captain:

Lieut. G. D. Blackadar, Yarmouth, N. S., from 26 October,

of School The following school teachers and officers in the Corps Captain Cadet Instructors have qualified for the rank of $C_{\mathbf{a}_{\mathbf{p}}\mathbf{t}_{\mathbf{a}i_{\mathbf{n}}}}$:

Lieut. F. J. Phelan, C.S.C.I., of Halifax, N. S., at the Course held at the Royal School of Instruction, Halifax, N. S., 19/7/15 19/7/15 to 2/8/15.

ROLL OF HONOR, CADET CORPS.

(Circular Letter from Capt. R. Robinson Black, O. & I., Cadet Corps.)

"It having been brought to my notice in the course of my recent visits to the respective Cadet Corps in the 6th Divisional Area that many Cadets and ex-cadets and Instructors have volunteered and already joined the Canadian Expeditionary Forces, I consider it is highly proper and desirable that a complete list of all the boys so serving or having joined in any capacity with our Comrades in Arms in the World Empire struggle for British Freedom, should be prepared by each of the respective Cadet Corps, giving the full name, address and number of the Cadet Corps with which they have been or are at present affiliated.

I will therefore be pleased to receive at the earliest moment from each Cadet Corps the required information, so that when the proper time comes for recognition and distribution of Honors at the hands of the proper authorities, I will be in a position to submit to the Hon. the Minister of Militia a record and Roll of Honor of the Services rendered by the Cadet Boys to the Empire.

May I count on your co-operation and interest in this splendid and heroic work, so that no boy who has joined the Expeditionary Forces should be omitted from appearing on this Roll of Honor, which will in the Annals of History yet to be written form one of its proudest pages."

PHYSICIAL TRAINING COURSES.

Physical Training Courses for teachers will be conducted at the Rural Science Training School, Truro, N. S., during the Midsummer vacation. At least two hours drill per day will be required in these courses.

Candidates in these courses as well as at the Normal College, will be required to furnish themselves with gymnasium shoes and clothing appropriate to the work. Ladies who take the course will find that a one-piece dress which allows freedom of movement, will add greatly to the comfort of the pupil and success of the instruction.

Grade "B" Physical Training Certificates.

Mount St. Vincent Academy, (1 Sept. 1915 to 15 Oct. 1915).

```
8748—Bernard, Anne Elizabeth
   Bond, Mary Ann
   8745 Brown, Marie de Chantal
   8746—Campbell, Elizabeth E.
 8746—Campbell, Elizabeth E.
8747—Campbell, Elizabeth
8748—Costello, Mary Elizabeth
8750—Donahoe, Bridget Agnes
8751—Doucet, Mary Isabella
8752—Doyle, Mary Josephine
8753—Glynn, Alice Margaret
8754—Hartigan, Marion Eleanor
  8754—Hartigan, Marion Eleanor
8755—Jessome, Eliza
8756—Kelley, Angela Imelda
8756—Kelly, Marie Margaret
8758—Kennody, Margaret Kathe
  8758 Kelly, Marie Margaret
8758 Kennedy, Margaret Katherine
8769 Kilduff, Marcella Teresa
8760 Maccal Halon Frances
8760 Kilduff, Marcella 1 eresa
8760 McCabe, Helen Frances
8761 McCarthy, Margaret Agnes
8762 McCarthy, Mary Alice
8764 McDonald, Minnie Blanche
8765 McDonald, Martha Margaret
 8765 McNeil, Matilda
 8766 Magee, Anna Marion
8767 Magee, Anna Marion
8768 Murray, Katherine Emily
8769 O'Brien, Emma Margaret
8770 Donnell, Teresa Elizabeth
 8770 Power, Mary Gertrude
8771 Power, Man,
8772 Roche, Teresa
8772 Ryan, Mary Agnes
8774 Scanlon, Marion Frances
Margaret Teresa
Margaret Teresa
8774 Scanlon, Marion Prances
8777 Sullivan, Margaret Teresa
8775 Sullivan, Margaret
Surrette, Alma Katherine
8776 Surrette, Anna
Trahan, Rose Anna
777 Trahan, Rose Anna
778 Traynor, Gertrude Veronica
8778 Traynor, Gertrude White, Mary Leonida
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Mount St. Vincent Academy, (13 Sept., 1915 to 15 Oct., 1915).

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8779 Burke, Romaine Bernadette
 8780 Comeau, Nellie Mary
 8781 Comeau, Nellie Mary
Davies, Constance Mary, Halifax.
 8782 Davies, Constance Mary, ....
B788 Claver, Annie Clare, Halifax.
 8783 Glawson, Hilda Elizabeth
8784 Glawson, Hilda Elizabeth
8785 Horne, Geraldine Elizabeth
8786 LeBlanc, Anne Christine
8787 McDougall, Marjorie Claudine
8786 McDougan, 8787 McIsaac, Ann
8789 McIsaac, Mary
8780 McNeil, Annie May
8790 Louise El
8790 McNeil, Annie May
Melancon, Louise Elizabeth
Marguerite
8781 Melancon, Louise Elizabet.
8782 Murray, Geneva Marguerite
8783 O'Keefe, Sarah
Priek Iva Grace, Halifax.
8793 Prisk, Iva Grace, Halifax.
8796 Prisk, Iva Grace, manual
Skerry, Gertrude Loretta
Marie
Story, Gertrude Lo. Healy, Gertrude Marie
Convent of Sacred Heart, Halifax, N. S., (1 Oct., 1915 to 30 Oct., 1915).
8796 Bigney, Ellen, Halifax.
8797 Bigney, Ellen, man....
Foley, Irene, Halifax.
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8798—Craigie, Jessie Elizabeth, Halifax. 8799—Cragg, Grace, Halifax. 8800—Cunniff, Rose, Halifax. 8801—O'Connor, Madame Genevieve, Halifax. 8802—Codie, Madame Teresa, Halifax.

Normal College, Truro, N. S., (1 Nov., 1915 to 27 Jan., 1916). Cane Breton.

	Miss Barbara Smith L. Anderson	Now Abardeen	Cape Breton
880	—Miss Barbara Smith L. Anderson —Miss Irene S. Andrews	Oakland	Lunenburg
880	Miss frene 5. Andrews	117 D 1.	Cumberian
880	—Miss Emma Elizabeth Atkinson. —Miss Esther Belle Brady	West Drook	Halifax.
880	5—Miss Emma Enzabeth Atkinson 5—Miss Esther Belle Brady 7—Miss Esther Brody 8—Miss Ella May Brydon	Halitax	Cane Breton
880	Miss Esther Brody	Glace Bay	Zings.
990	7—Miss Esther Brody	Weston	Mingo
000	3—Miss Ella May Brydon 3—Miss Verna Leslie Brown	South Uniacke	Chalburne.
000	— Miss Verna Leslie Brown	Upper Clyde	Shelbarr
991	Miss Joan Louise Baxter	Newport	Hants.
881	— Miss Bernice Winnitred Bower I—Miss Jean Louise Baxter Z—Miss Josephine M. Banks Miss Josephine Counthin Bent	Lawrencetown	Annapolis
881	2—Miss Josephine M. Banks 3—Miss Jennie Cynthia Bent 4—Miss Ethel G. Byrne 5—Miss Zillah Lillian Bollong	Belle Isle	Annapora Breton,
- 881	3-Wiss terme Cyntha Benetit	NY of C. Lange	Cane Di
001	4-Wilss Beneficial	II Promi	Hamer
881	6—Miss Margaret Alireda Domiy	Dallimon's Cove	Digby.
881	6— Miss Marie Amy Belliveau 7—Miss Marie Amy Belliveau 8—Miss Agnes Rebecca Coady 9—Miss Jennie Charman 0—Miss Louisa Cameron	Margaria Forks	Inverness, d.
882	0—Miss Louisa Cameron	Sherbrooke	Pictou.
882	1-Miss Donna Grace Chisholm	New Glasgow	Sydney
99	2-Miss Annie Campbell		Pictou.
884	1—Miss Donna Grace Chisholm 2—Miss Annie Campbell 3—Miss Isabel Cameron 4—Miss Florence Jean Corkum	.Thorburn	Halifax.
994	A-Miss Florence Jean Corkum	. Dartmouth	Uclifax.
000	3—Miss Florence Jean Corkum 4—Miss Florence Jean Corkum 5—Miss Gladys Perry Collings 6—Miss Hazel Dell Coates 7—Miss Charlotte E. Crowell 8—Miss Irone Bridget Connors	Halifax	Cumberland
00	6 Mice Hazel Dell Coates	(R.R. No. 2) Fenwick	. Chathurne
00	6—Miss Hazel Dell Coates	Clark's Harbor	Shell Breton
88	Miss Irone Bridget Connors	. New Waterford	Cape
88	99—Miss Mary McD. Cruikshank 90—Miss Annie Dawson	MacLellan's Brook	Pictourland
00	0-191135 Tittile Danidson	Amherst	. Cuil acter
- 88	IIWiss Catherine 11. Davidson	Canat Village	Coicing ne.
88	32—Miss Bessie Jean Dill	Atlantic P. O.	Shelburnd.
00	DO Miles I STREFILE DELIC DOGOCIIII		DACHDA
88	34—Miss Johanna Matilda Doyle 35—Miss Mary Lena Deveau	Motochan	, Digby.
88	35—Miss Mary Lena Deveau	Marilotto	. Digby areton
88	36—Miss Johanna Mathabas 36—Miss Mary Lena Deveau 36—Miss Theresa Deveau 37—Miss Katherine C. Fraser 38—Miss Vera Gertrude Friggens 39—Miss Mary Hannah Frigan	Carlaga Minor	Cape outh.
88	37—Miss Katherine C. Fraser	. Sydney Willes	Yarmou
88	88—Miss Vera Gertrude Friggens 89—Miss Mary Hannah Finigan 40—Mrs Maude N. Farncombe	. Hebron	Digby.
88	38—Miss Vera Gertrude Fingen 39—Miss Mary Hannah Finigan 40—Mrs. Maude N. Farncombe 41—Miss Elenora Mae Finigan 42—Miss Laura Jessie Fogarty	Freeport	Ouceas.
88	40—Mrs. Maude N. Farncombe 41—Miss Elenora Mae Finigan 42—Miss Laura Jessie Fogarty 43—Miss Greta Blanche Graham	Freeport	Guysboiland,
88	12-Miss Laura Jessie Fogarty	. Hazel Hill	Cumberth.
88	43-Miss Greta Blanche Graham	. Fox River	Varmoutis.
96	40—Mrs. Maude N. Farncombe	. , Carleton	Annapolis
00	44—Miss Barbara Helen Graham 45—Miss Helen V. Gilliatt 46—Miss Elizabeth H. Griffin 47—Miss Mary Josephine Graham	. Granville Center	Annapoli
00	45—Miss Helen V. Gillatt. 46—Miss Elizabeth H. Griffin 47—Miss Mary Josephine Graham. 48—Miss Ethel Ward Harrison 49—Miss Marjorie King Haley	Bridgetown	Kings.
80	Mica Mary Josephine Graham.	Grand Pre	Halifax
88	40 Miss Wary Josephine	Dartmouth,	N Bh.
88	48-Miss Ether Ward That Haley	St. Stephen	Varmouth
88	49—Miss Maijone King Hatey	. Varmouth.	Dictou:g.
88	44—Miss Mary Josephile Glaham 48—Miss Ethel Ward Harrison 49—Miss Marjorie King Haley 50—Miss Ella Herman 51—Miss Catherine Baillie Hayman 52—Miss Myrna Amelia Hyson 53—Miss Jean Smith Hardy 54—Miss Olivia Naomi DeWolf He	West ville	unenbuib
. 88	ol-Miss Catherine Danne Hayman	Mahone Bay	. Lings.
- 8	52-Miss Myrna Amelia Hyson	Kentville	Dictou.
8	53—Miss Jean Smith Hardy	Durham	Cuysboro.
8	54—Miss Maria Elsie Hamblen	ol Guyeboro	· Holifax.
8	55-Miss Ulivia Naomi Dewoli He	Dortmouth	Halifax. h.
8	356—Miss Florence Mary Harris	Ualifay	. Marmouther
8	53—Miss Jean Smith Hardy 54—Miss Maria Elsie Hamblen 55—Miss Olivia Naomi DeWolf He 56—Miss Florence Mary Harris 57—Miss Rebecca Mary Hines	Lishmon	Yarn Brett
8	58-Miss Ada Pauline Herkes	Neuron Sydnor	Cape
8	155—Miss Olivia Naomi DeWolf He 156—Miss Florence Mary Harris 157—Miss Rebecca Mary Hines 158—Miss Ada Pauline Herkes 159—Miss Carmita Mae Ingraham	North Sydney	

8860	
8860—Miss Etta Robina JohnsonValley	Colchester.
8861—Miss Etta Robina Johnson Valley 8862—Miss Dorothy Maie Jeffrey Truro	Colchester
8864 Miss Bertha Alice Kempton Milton	Queens,
8866 Miss Pauline Mary Keats New Waterford. 8867 Miss Mary Evangeline Longley. Paradise	Cape Breton.
8867 Miss Mary Evangeline Longley Paradise	Annapolis.
8867—Miss Mary Evangeline Longley. Paradise. 8868—Miss Eva Florence Lukeman. Hazel Hill.	Guvehoro
8872 Miss Mercedes M. Melanson Grosses Coques	Kings.
8874 Miss Beryl Blanche Mitchell Truemonville	Cumberland.
Niss Eva Louise Meaning Communication	Curchoro
8874—Miss Beryl Blanche Mitchell	D' A
0876 Miss Annie Jane MacDonald Green Hill	Pictou.
8876—Miss Annie Jane MacDonald Green Hill. 8877—Miss Margaret Jessie MacMasterLong Point 8878—Miss Audrey Anna MacCrae Port Maitland. 8879—Miss Florá Anne Macdonald Baddeck	Inverness.
8878 — Miss Audrey Anna MacCrae Port Maitland	Yarmouth.
8879 Miss Flora Anne Macdonald Baddeck	Victoria.
8820 Wiss Jessie Ellen MacDonald Port Dichmond	Richmond
8879 Miss Flora Anne Macdonald Baddeck 8880 Miss Jessie Ellen MacDonald Port Richmond	Calabortor
8880 Miss Jessie Ellen MacDonald Port Richmond	. Colchester.
Miss D. Macleod Sydney	Cape Breton.
8883 Miss Rose May Ruth MacPhee (R. F. D. No. 1) Elinsda 8884 Miss Margaret Jean MacQueen Kings Head 8885 Miss Jessie M. MacLennan Upper Middle River	le Hants.
8884 Margaret Jean MacQueen . Kings Head	Pictou.
8885 Jessie M. MacLennan Upper Middle River	Victoria.
888e MISS Margaret MacDaniel Margaree Forks	Inverness.
8887 Miss Catherine MacDonald Victoria Mines 8888 Miss Mineola R. MacKay Truro 8889 Miss Bertha Ella MacLaughlan . Halifax	Cane Breton
Miss Minerly D. Markey	Calaborton
8888 Miss Mineola R. MacKay Truro. 8889 Miss Bertha Ella MacLaughlan Halifax. 8890 Miss Annie Isabel MacIntosh North Earltown.	Colchester.
8889 Miss Bertha Ella MacLaughlan. Halifax 8890 Miss Annie Isabel MacIntoshNorth Earltown 8891 Miss Marjoric Britton McCully Truro	Halitax.
0890 Miss Annie Isabel MacIntosh North Earltown	Colchester.
8891 Marioric Britton McCully Truro	Colchester.
5800 WISS Ethol M. MaDhaman Clara Dani	Cons Broton
8890 Miss Annie Isabel MacIntosh . North Earltown . 8891 Miss Marjorie Britton McCully Truro . 8892 Miss Ethel M. McPherson . Glace Bay . 8893 Miss Mary Agnes McArthur . Port Hood . 8894 Miss Eva Kathleen McAloney . Torbrook . 8895 Miss Joanna Agatha McDonald Windsor .	Cape Breton
8894 Miss Eva Kathleen McAloney Torbrook. 8895 Miss Joanna Agatha McDonald Windsor. 8896 Miss Cora Beatrice McLaughlin Lower Economy.	mverness.
Miss Lva Katnieen McAloney. Torbrook.	Annapons.
8895 Miss Joanna Agatha McDonald Windsor. 8896 Miss Cora Beatrice McLaughlin Lower Economy. 8897 Miss Reta McLellan Bass River.	Hants.
2010 Fried Lord Doctries Maleumbin 1 Transcon	Calabanton
9697 ***408 Roto Malallan	C 1 1 1 4
9090 7438 Voro Louro Malallana A 1 /	Chambanland
8898 Miss Vera Laura McLellan	. namax.
Miss W. Lexina MacDougall Glace Bay	. Cape Breton.
Miss Violet Foshay Olive Truro	. Colchester.
3903 Miss Dorothy Pauline Phalen Stellarton	Pictou.
Miss Isabel Dengen Phillips True	Colchester
890 Miss Sadte Mae McNamara. Halifax. 890 Miss M. Lexina MacDougall Glace Bay. 8901 Miss Violet Foshay Olive Truro. 8902 Miss Amy Canfield Purdy Wentworth Valley. 8903 Miss Dorothy Pauline Phalen Stellarton. 8904 Miss Isabel Denoon Phillips. Truro. 8905 Miss Jeanette Melissa Pitman Brooklyn. 8906 Miss Jean Peacock. Northport. 8907 Miss Jean M. Pothier Yarmouth.	Vormouth
Miss Jeanette Menssa Pitman Brooklyn	. Yarmouth.
Miss Jean FeacockNorthport	. Cumperiand.
8907 Miss Jean Peacock. Northport. 8907 Miss Jean M. Pothier. Yarmouth. 8908 Miss Mary Alexandra Parker. Middleton. 8909 Miss Annie C. Peach. Port Morien. 8910 Miss Agnes Jeal Brid.	. Yarmouth.
8908 Miss Mary Alexandra Parker Middleton	. Annapolis.
Miss Annie C. Peach Port Morieu	Cane Breton.
8908—Miss Annie C. Peach	Cape Breton
8910—Miss Agnes Isabel Reid. Gabarus. 8911—Miss Annie Isabel Rose. New Glasgow. 8912—Miss Alice Robertson. Digby. 8913—Miss Nellie Romkey. Lower LaHave.	Distant
Miss Alice Del Nose New Glasgow	. Pictou.
Miss Miss Miss Modertson	. Digby.
Miss Come NomkeyLower LaHave	. Lunenpurg.
Miga Nebecca Saunders Guysporo	. Guysboro.
Miss Mary Louise Starr Port Williams	Kings.
Muriel Curtis Second Amborst	Cumberland
Ruis Wigger, "Tel Cultus Second Annierst	. Cumpertana.
ATM A ATTO OFFICE SECTIONS OF THE A SEC	
data Wise the Studdard Clain Harbor	. mamax.
8018 Miss Elizabeth Sanford Halifax	. Halifax.
8918 Miss Elizabeth Sanford. Halifax.	. Halifax. . Hants.
18 Miss Elizabeth Sanford. Halifax. 18919 Miss Laura M. Sanford. Up. Burlington. 18020 Miss Genevieve Pearl Stevens Freeport	. Halifax. . Hants. . Digby.
18 Miss Elizabeth Sanford. Halifax. 18919 Miss Laura M. Sanford. Up. Burlington. 18020 Miss Genevieve Pearl Stevens Freeport	. Halifax. . Hants. . Digby.
18 Miss Elizabeth Sanford. Halifax. 18919 Miss Laura M. Sanford. Up. Burlington. 18020 Miss Genevieve Pearl Stevens Freeport	. Halifax. . Hants. . Digby.
18 Miss Elizabeth Sanford. Halifax. 18919 Miss Laura M. Sanford. Up. Burlington. 18020 Miss Genevieve Pearl Stevens Freeport	. Halifax. . Hants. . Digby.
18 Miss Elizabeth Sanford. Halifax. 18919 Miss Laura M. Sanford. Up. Burlington. 18020 Miss Genevieve Pearl Stevens Freeport	. Halifax. . Hants. . Digby.
8018 Miss Elizabeth Sanford Halifax	. Halifax. . Hants. . Digby.

Grade "C" Certificates.

Convent of Sacred Heart, Halifax, N. S., (1 Oct. 1915 to 30 Oct. 1915).

189—Waugh, Mary Halifax Halifax. 190—Johnston, Mary Halifax Halifax. 191—Sinnott, Mary Halifa Halifax. 192—Chisholm, Ellen Halifa Halifax. 193—Cable, Clare Halifa Halifa. 194—Lawlor, Madeline Halifax Halifax. 195—Donahoe, Agnes Halifax Halifax.	·, · · ·
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Normal College, Truro, N. S. (1 Nov. 1915 to 27 Jan., 1916.)

	Yormouth.
196—Miss Mathilda AmiraultAmirault Hill'	. Yarmouth.
196—Miss Mathilda Amirault	Yarmouth.
197—Miss Emilie Amirault Amirault Hill	Yarmout
198—Miss Rose Emma Bourque	. Victoria.
199-Wiss Tena Duchanan	M H
200—Miss Maude Crossman	Guysboro:
201—Miss Myrtle CornealyIndian Flarbor Lake	Dichmond.
ZUZ-Wilss Millie May I erguson	Chalbull por
203—Miss Edna Almeda HagarRound Bay	Shelburne.
203—Miss Edna Almeda HagarRound Bay. 204—Miss Zella Mina HardingEast Side of Ragged Islan 205—Miss Gladgs Maude HortonRoachyale	dShelbus boros
204—Miss Zella Mina Harding East Side of Ragged Islan 205—Miss Gladgs Maude Horton	Guysbor
200 Miss Clades Mande	Malitax.
200—Miss Milling Willy Tubley (D. D. No. 1) River John	Pictou, land.
ZU1-Wilss Alinie 1, D. Hammton (K.K. 10, 1) Terror Johnson	~ mheria"
206—Miss Minnie Mry Hubley	Inverness.
210—Miss Mary Delvina LeBlanc Friar's Head.	. Ilive mond
209—Miss Mary Cecilia LeBlanc	. Kichin Breton
212—Miss Mary Susan Ley Little Lorraine 213—Miss Marie Frances Macdonald Big Tracadie	. Cape prish
919 Miss Marie France Madonald Rig Tracadie	Antigonio
213—Miss Marie Frances Macdonald Big Tracadie	Guysboro
214—Miss Mary McKenzie	Halifax.
214—Miss Mary McKenzie Hazel Hill	i unenbuik.
216—Miss Ella Mae Stevens Tancook	Vormouth.
217—Miss Rose Hermeline Surette Eel Brook	Yalifak.
216—Miss Ella Mae Stevens	Hamand
219—Miss Marie Leontine PertusPoulamond	Halilax
ZZU—Miss Piessa Matniida Kusseli Clain Harbor	

Rural Science Bulletin.

Vol. II.

TRURO, 17 APRIL, 1916.

No. 6.

Editor L. A. DeWOLFE, M. Sc., Normal College, Truro, Nova Scotia.

GRANTS TO SCHOOL GARDENS.

As is well known, a grant from the Municipal Fund may, on the Inspector's recommendation, be paid to trustees for a Well-kept school garden. To encourage the establishment of school gardens, nearly all the Inspectors have agreed to recommend a grant of five dollars for a school garden of 1000 square feet in area. This is simply a pro rata division of the grant already allowed by law.

The condition of the garden at the end of the summer vacation would determine whether the grant can be allowed or not. Remember the grant can in no case exceed the actual expenditure the trustees have made on the garden.

An Inspector, in his last Annual Report, says:—"I received very few reports of Special Arbor Day celebrations. Here is something else in which the Rural Science Arbor Day celebrations. Science teachers can take the lead, and set a good example for others."

Every Rural Science teacher is expected to have trees, shrubbery and flowers planted on Arbor Day.

MAKE GARDEN WORK EDUCATIVE.

In working for School Exhibits, there is danger of losing sight of the educational value of the work. If the money prize is the educational value of the work. It is the only goal of a child's ambition, we are setting up standards. The prize is secondary.

So far as exhibitions are concerned, how to grow vegetables and flowers is the only requirement.

But, educationally, Use, therefore, the But take advantage garden as a basis of ordinary school work. But take advantage of the such work pleasant. of the natural spirit of rivalry to make such work pleasant. Simply working for a prize may become drudgery. To compete working for a prize may become drudgery. pete with each other in the discovery of causes and principles lends to the child is lends keenness to the contest. And, incidentally, the child is acquiring a useful education without his knowing it.

GROW VEGETABLES FOR PATRIOTIC FUNDS.

Patriotic contributions have drained the children's pocket-books dry. Incy produce for Patriotic Funds? If every school child in Nova Scotia would grow Patriotic contributions have drained the children's pocket-books dry

one dollar's worth of produce this year, our funds would be increased by \$100,000. Every child won't do it. How many will? Even a quarter of a dollar from every child would be of great assistance. To beg contributions robs someone. To grow the money out of the ground robs no one. It adds to the wealth of the world.

An important feature of gardening should be the keeping of an expense account. The child should estimate the renting value of his land, the cost of labor, seeds, fertilizer and fencing. Against this he should credit the estimated value of his products. If he grow flowers, he should collect some of the seeds. They would add naterially to his income. Strawberries are very profitable, if properly cared for. Try planting turnips and similar biennials for "seed."

Try rotation of crops. If a child divides his garden into four plots, he could practise a four-year rotation on these plots. If teachers don't know what a four-year rotation means, consult a text-book on Agriculture.

ANSWERS TO QUESTIONS.

What can my boys do while my girls are sewing?
Here are suggestions that a few teachers have offered.

(1) Mount pressed plants for the school collection. (2) Let the boys set too. (3) Put up book shelves in the school-room (4) Make, fill or plant window boxes. (5) Change the borders on the black-board. (6) Study seed catalogs. (7) Read farm bulletins. (8) Read magazines, and report to the school. (9) Make mineral boxes. (10) Write essays on assigned topics.

Are teachers who belong to the spring Rural Science class of the Normal College but who did not return for the summer session entitled to the fifteen dollar grant? Legally, they are not. That grant is intended to help defray expenses while in attendance at Summer Session. Those selected from the Normal College classes are under no additional expense during the spring term.

Furthermore, those holding only a Third Class license are entitled to no Rural Science grant. Neither are Second class teachers who are not graduates of the Normal College.

What should I do with the bulb-bed after the bulbs have ceased to bloom? The bulbs will come up again next year. But to get best use of your ground, scatter seeds of California Poppy or Phlox Drummondi or Shirley Poppies over the bed and rake them in. Do this when the leaves of the bulb begin to die. By the way, some gardeners get still longer flowering period by planting crocus above narcissus. Crocuses are planted only half as deep as narcissi, and they are done flowering before the latter come up.

In this connexion, the flowering period of any particular plot can be lengthened by having late blooming flowers follow early ones. By way of illustration, plant gladiolus bulbs among the iris. The latter bloom early and will be gone by the the gladioli begin to show color. One can dig the gladiolus bulbs in the fall without disturbing the iris.

BORDERS ALONG WALKS.

A flower or shrubbery border on each side of the walk leading from the street to the school house is very effective. For protection, a single strand of wire about two feet from the ground on each side of each border is sufficient.

Flowers massed against the school building are also attrac-They too need a wire for protection. Clumps of shrubbery in the corners where walks meet, and at regular intervals along the sides of the walk relieve the monotony.

Now is the time to make plans. Planting time will be here before we are ready for it.

A secluded corner should be a multiplying bed for perennials that multiply readily. For example, a single plant of peony, or phlox or iris would in a few years produce enough plants for a Whole garden. It may be that some woman who is fond of flowers would allow a small plot of her own land as a starting bed for school plants. Many old gardens exist in every Community. Why cannot these help supply the school with flower seeds and roots? A flower-exchange between individuals or hetween schools is worth trying.

FROM SOME PROGRESSIVE SCHOOLS.

Principal R. S. MacLeod, Florence, C. B., in speaking of his School Exhibition last October says:

"Friday morning came and the children arrived long before the usual time with sewing, cooking, mounted flowers, bouquets, writing, drawing, vegetables, arrows were they had never had manual training, kites, windmills and bows and arrows were much in evidence.

In the afternoon the parents came in large numbers most of them staying nours. for hours viewing the exhibits. Everybody was delighted and one of the local ministers viewing the exhibits. nours viewing the exhibits. Everybody was delignted and one of their own. Some of the children a very encouraging talk on home gardens of their own. Some of the parents went so far as to say they enjoyed themselves much more than when the parents went so far as to say they enjoyed themselves much more than when at the Sydney Exhibition the day before.

I'm sure that all the nature lessons and talks on school gardening that I inhaving that all the nature lessons and talks on school gardening that I inhaving the state of the little Exhibition has. tend having this winter will not create the interest that this little Exhibition has.

Many of the this winter will not create the interest that this little Exhibition has. Many of the children have already told what they are going to start for the one ing instead of one room next year." Since they have done so much with so little and encounter they will certainly have a good exhibit next year." time and encouragement, they will certainly have a good exhibit next year."

Miss Theakston, Halifax, says:-

The aphids on our tulips and chrysanthemums afforded an opportunity for the aphids on our tulips and chrysanthemums afforded an opportunity for Same of the girls voluntarily made an interesting lesson on insects, even in winter. Some of the girls voluntarily made soan and lesson on insects, even in winter. Some of the girls voluntarily made so an angle so an angl the soap and oil solution, which they used on their plants at home as well as on those at school."

Miss Smith, Liverpool, says:

they had quite a present given to our room. At the drug store they had quite a number of marine curios to advertise their sponges, and when got thru with them, they very kindly gave them to us."

Principal R. T. Mack's way of inspecting home gardens

in Bridgewater is suggestive. Here is what he says:

"I visited some of the gardens myself and had the boys and girls of my Grade IX Botany Class inspect the others. They worked in pairs and passed in a detailed report on each garden visited."

Principal R. H. Wetmore of Milton, Queens Co., writes: "We are thinking strongly of making use of the McGill travelling-libraries. and you are allowed to keep them five months I believe, for \$3.00. The 30 volumes include more or less varied liets nature most. include more or less varied lists, nature work, fiction, etc. They were recommended to me by Mr. Crockett, traveller for less land and the work were recommended to me by Mr. Crockett, traveller for less land and the land and the less land and the ded to me by Mr. Crockett, traveller for Industrial and Educational Press.

COMMENTS.

Whitaker's Review, Los Gatos, California, May 1918, ished the following and the following are the foll published the following, relative to the teaching of Agriculture.

The real purpose of education is to acquaint the individual with the materials is life as a civilized being and to river in the individual with the materials

of his life as a civilized being and to give him a master, over them.

He must be able to express himself, so we give him the language group of ies; he must know how to fit himself into the studies; he must know how to fit himself into the complex organization we call society and the state, hence he must studie the society and the state, hence he must study history, civics and literature, able to compute and measure, hence he must know mathematics; finally, science around the growing child eternally prompts the question "Why?" which science only can answer. The most artificial life imaginable brings man hourly in contact with the natural forces, and science only can give the key to an understanding of them. tact with the natural forces, and science only can give the key to an understanding of them.

Ever since modern education took shape attempts have been made to supply third with the means to eatiefy his parties. the child with the means to satisfy his natural curiosity and to stimulate him further investigation. The Nature Study for the control of the further investigation. The Nature Study fad of the past dozen years is an organized attempt in this direction. Much need to the past dozen years is lacked organized attempt in this direction. Much good has grown from it, but it lacked in definiteness and connexion with other school in the state of the school in the school i in definiteness and connexion with other school interests. Some schools have tried to meet the demand with General Science interests. tried to meet the demand with General Science courses, generally condemned by college and high school men for its necessary superficiality, "pawing over the subject and spoiling its interest for later work.

We believe that in the present We believe that in the present widespread interest in agriculture a real solutof the problem is found.

tion of the problem is found.

"The basic materials of civilized life come from the earth and are chiefly the ucts of agriculture." Home-making and the real the real through through the real products of agriculture." Home-making, our strongest racial instinct, the relative safe-guard of society, can have no realization with safe-sure of society. safe-guard of society, can have no realization without almost hourly contact these materials. The education which makes a second to the second these materials. The education which makes no provision for an intelligent acquaintance with them and their significance must be acquaintance with them and their significance must be acquaintance. acquaintance with them and their significance must be hopelessly faulty.

A "knowledge of the world" has long been the peculiar mark of the cultivated does and successful man. There can be no real knowledge of the world which does not include an intelligent intimacy with the man. not include an intelligent intimacy with the most important occupation of man. The production, transportation and exchange of the world which man are production, transportation and exchange of the most important occupation of the production. The production, transportation and exchange of the materials of food, and housing are the very essence of history making. "Civilization is the ultimate and logical product of agriculture, and its subsidiary arts and sciences." Chemistry, geography, botany, zoology, physics, physics Chemistry, geography, botany, zoology, physics, physiology, transportation markets, accounts, legislation and diplomacy, all wait upon the minister the agriculture. The agriculturist's knowledge and its practical application to man production of raw materials, make him senior partners. production of raw materials, make him senior partner in every activity of man. Without his co-operation luxury, comfort life itself. Without his co-operation luxury, comfort, life itself, must speedily cease.

Note:—Watch the "Production and thrift" advertising the Dominion Covernment of the C that the Dominion Government will shortly carry in every newspaper in Canada

CONSERVATION OF BIRDS.

The following communication from the Dominion Commission of Conservation, Canada, is printed here together with the article in the March issue of "Conservation" to which reference is made.

COMMISSION OF CONSERVATION.

Ottawa, Canada, March 6, 1916.

Superintendent of Education, Dear Sir:-Nova Scotia.

In the March issue of "Conservation," going out to your leading school behalf of L., an outline of an offer to Canadian school children and teachers on behalf of bird protection.

1974, Broadway, New York, has very kindly arranged that the advantages of their Children's branch will be extended to our schools.

I think you will agree with me that this matter can be properly brought before the schools, under the heading of nature study, and would go a long way towards interesting. interesting pupils in the protection of our birds.

in a position to render in interesting teachers and scholars in the work. If you consider it advisable, I would appreciate any assistance you may be

Thanking you for same, I am, Yours faithfully,

JAMES WHITE, Assistant to Chairman.

OFFER TO CANADIAN SCHOOLS.

National Association of Audubon Societies Places Advantages at Disposal of Our School Children.

At the last annual meeting of the Commission of Conser-Vation, Dr. T. Gilbert Pearson, secretary of the National interest:— of Audubon Societies, of New York, gave a very line of Reservations. interesting and instructive address on Bird Reservations.

The Association is international in its scope, and an out-The Association is international in its scope, and an education of its work for the protection of bird life is the Dr. Pearson has education of children to a love of wild birds. Dr. Pearson has kindly on of children all the kindly arranged to extend to Canadian school children all the advantages of this work, and it is hoped that school principals and teachers of this work, and it is hoped that school principals and teachers will interest their pupils in the great work of saving Canada's wild bird life.

have engaged in systematic organization of the school children To this end Dr. Pearson says: "For the past few years we into classes for bird study and bird protection. The children each pay a fee of ten cents, and receive material which costs us This much pay a fee of ten cents, and receive material which costs more than that to publish and place in their hands. This consists of a series of excellent coloured pictures of birds, to gether with outline drawings, which the children, by means of water colours or crayons, can fill in and thus fasten in their minds the correct colouring of the various birds. The children also receive a very pretty bird-button bearing the words "Audubon Society." To the teacher who forms a class of ten or more, and sends in their fees to the Audubon Society, 1974 Broadway Avenue, New York, there will be forwarded free for one year the magazine Bird Lore and other matter on the subject of bird study. In 1915 about 150,000 children were thus organized in the United States."

Dr. Pearson further states: "As a further indication that there is nothing of a commercial character about this proposition I may say that this work last year cost us at the rate of 26 cents for each child enrolled. For the present school year we have at our disposal a fund of \$26,000 to use in this work, and I shall be very happy to share the advantages of this plan with the children of Canada."

There is thus placed before our school teachers an opport tunity to interest pupils in this branch of nature study and at the same time secure for themselves valuable material to assist [Conservation, March, 1916.] them in their work.

The true Lords of the Universe are the insects. ber, fecundity and voracity of insects are amazing. damage done by insects alone reaches the astounding total of \$100,000,000,000 a version of the stounding total of \$100,000,000 a year in the Dominion of Canada alone. prevents these ravening hordes from over-running the earth and consuming over the and consuming even the food supply of man? BIRDS.

How important then is the conservation of Bird Life may be seen by the teacher from the following placard distributed by the Canadian Society for the by the Canadian Society for the Protection of Birds.

NOTICE.

PROTECT THE BIRDS. THEY R TECT YOU.

Birds eat injurious insects.

Yearly loss to Canada by injurious insects—about \$100,000,000.

Help to stop this loss by protecting bir #.

Write the Secretary of the Canadian Society for the Protection of Birds, for Information,-

Address.—ROYAL CANADIAN INSTITUTE, 198 College Street, Toronto.

"The Value of Birds to Man" is the title of an eighteen page pamphlet by James Buckland of London, Eng., reproduced from the proceedings of the Smithsonian Institution. may be obtained from The Canadian Society for the Protection of Birds at the address given above.

CHILDREN'S AMBULANCE FUND OF NOVA SCOTIA. TDE LOUDEDIG OF LEGIS

TRE	ASURER'S STATEMENT.	,	_
RECEIPTS			Contribution in cents per pupil.
From Schools in	No of Places	Total.	Contri in C
Colchester County Colchester County Cumberland County Digby County Guysboro County Halifax County Hants County Inverness County Lunenburg County Pictou County Oueens County	31 6 34 34 39 16 22 25 20 18 25 33 84 12 18 28	518 29 145 36 175 28 44 20 68 82 112 14 53 21 61 04 58 40	2.77 1.85 2.94 2.63 1.81 1.00 1.94 1.65 1.19 1.10 2.09 5.62 2.22
Victoria County		120 19	3.90 3.94 1.49
		32291 84	

EXPENDITURES.

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Audited and found correct

Sydney, N. S., December 20, 1915. E. L. Gilpin.

ROYAL COLONIAL INSTITUTE.

Northumberland Avenue, London, W. C. March 31st, 1916.

GRACE TYTUS McLENNAN, Treasurer.

Superintendent of Education, C:. Nova Scotia.

Reneration to acquire a better and more extended knowledge and appreciation of Majesty's Empire, offer Prizes to young men and women undergoing education,



for Essays on subjects of Imperial concern. It is felt that the preparation of such Essays on subjects of Imperial concern. It is telt that the preparation of the subjects of Imperial concern. It is telt that the preparation of the subject selected for the subject selected for of the various countries which constitute the Empire. The subject selected for the present year's competition is

"In what ways has Scientific Invention affected the British Empire."

I append a copy of the conditions under which Essays will be accepted, and your good offices in the furtherance of an object which the Council regard one of Imperial importance.

I am Sir.

Yours faithfully.

H. F. WILSON.

Secretary.

PRIZES FOR ESSAYS.

1. One Prize of £10 and one of £5 are open to pupils of who have not passed their nineteenth birthday at the time fixed for sending in the Essays.

2. The Competition is open to both sexes.

3: Certificates will be awarded to the Prize Winners, and to such other Competitors as may appear deserving.

The length of the Papers not to exceed 5000 words, to be Written or typed on one side only of foolscap paper, with an inch and a half margin on the left-hand side.

The Papers to be delivered at the Institute not later than 5 p. m. on 2nd October, 1916.

School. Not more than three Papers to be sent in from any one

7. Each envelope to be marked on the left-hand upper Corner "Each envelope to be marked on the Royal "Essay Competition," and addressed to "The Secretary, London." Royal Colonial Institute, Northumberland Avenue, London."

8. Each Essay to be marked with a motto or other distinguishing sign—not being the name of the writer—and accompanied by a sealed envelope, bearing a similar motto or sign, and address of the writer of the b of the Essay.

9. Each Essay to be accompanied by a Certificate from Some Each Essay to be accompanied by a Common Religion From Holding a public position, e. g., a Minister of Religion Formation Professor etc., declaring that Religion, Headmaster or Mistress, Professor, etc., declaring that Such Derson has satisfied himself or herself that the Essay marked (and has satisfied himself or herself that the Essay marked (quoting the mark or sign) is the genuine work of the writer neglection with the mark or sign) is the genuine work of the witer (quoting the mark or sign) is the genuine work of the writer named in the accompanying sealed envelope; that such the is manufactured and has not passed writer named in the accompanying sealed envelope; that said his or has member of the School mentioned and has not passed as or has belatest date fixed for the his or her nineteenth birthday on the latest date fixed for the delivery of the Essay at the Institute.

10. Successful Competitors to furnish any further proofs of compliance with the terms of the Competition that may be required by the Council.

11. Papers illegibly written or not complying with the

regulations will be rejected.

12. The Prizes to be awarded by the Council, after consideration of the Report of the Examiner, who will be appointed by the Council. The decision will be announced on or about 1st December, 1916.

The Council reserve the right of withholding any Prize, and of making such supplementary Regulations in respect to the competition as may from time to time appear to them to

be necessary.

Essays sent in for Competition will not be returned. 14.

The Copyright of all Essays sent in to be deemed to be vested in the Council.

H. F. WILSON, Secretary.

Royal Colonial Institute, Northumberland Avenue, London, W. C.

U. S. A.

National Educational Association.

The Annual Convention of the National Educational Association will be held in New York City, U. S. A., of the to 8 July, 1916. This is the first time in the history of New Association that the control Association that the annual meeting has been held in New York City York City.

The School Garden Association of America.

The Sixth Annual Meeting of the School Garden Associated Associate tion of America will be held in New York City, 6 and 7 July, 1916, in connexion with the course 1916, in connexion with the convention of the N. E. A.

PROVINCIAL EDUCATION ASSOCIATION TO BE HELD AT THE NOVA SCOTIA TECHNICAL COLLEGE, HALIFAX, AUG. 30, 31 AND SEPT. 1.

Provisional Program. Wednesday, August 30.

9 a. m. Registration.

10 a. m. Opening Address by the President.

Address by R. V. Harris, Esq. "The Utilization of the School for Social Purposes."

Address by Prin. Brunt "Social and Civic Development thru the School" Discussion.

Choosing of Committees.

3 p. m. Address by Prin. Soloan, "A place for Hygiene in the High School Course."

Address by Rev. Father McManus, "The Providing and Maintaining of Parental Interest in the School."

Discussion.

Thursday, August 31.

10 a. m. Address by Inspector Robinson, "Shall High School Grades be allowed to attend Rural Schools?"

Address by Inspector Campbell, "Short Training Courses for Teachers."

Discussion, led by Inspector Phelan. 3 p. m. Provincial Teachers' Union, President Creelman.

4 p. m. Election of Teachers' Representatives on Advisory Board.

Address by Prof. DeWolfe "Science in the Rural Schools." Address by J. E. Barteaux, Esq. "Vocational Education." Discussion, led by Prof. Moore.

8 p. m. Public Meeting.

Addresses by Pres. Boyle of King's, Pres. Mackenzie of Dalhousie, Principal Sexton and other prominent men.

Friday, September 1.

do a. m. Address by Rev. Father O'Sullivan "The Child's Voice and how it should be managed by the Teacher." Address by A. Roy Williams, Esq., "On Teaching Music in the School. Discussion.

Address by Prof. Bucknell. "How to teach History in Relation to the War."

Address by E. W. Connolly, M. A., "On Teaching Arithmetic."

3 p. m. Reports of Committees.

Discussion of general matters of Educational Interest. Election of Executive.



JOURNAL OF EDUCATION.

APRIL, 1916.

OFFICIAL NOTICES.

The full number of legal teaching days in the half school year ended February was 102; and in the half school year to 30 June is 103. School year 205 teaching days.

Summer Calendar, 1916.

April May	1	Fourth Quarter began. Final applications for Univ. Grad. Exams. Arbor Day.
May	$\frac{1}{5}$	Arbor Day.
May	15	Applications for Provincial Exams. due
N #	വ	T.F
May	23	Empire Day.
May	24	Victoria Day (Holiday).
June	3	Anniversay King's Birthday.
June	22	Normal College closes.
June	24	Provincial Examinations begin.
June	26	Annual meeting of school sections.
June	$\overline{29}$	Country Academy Entrance Evens hegin.
June	30	Last authorized teaching day of school year.
July	1	Dominion Day.
July	5	Applications Rural Science course due. begins.
July	12	Dural Science Training School Truto, Des
Aug.	10	Rural Science Training School, ourse ends.
Aug.	28	First Quarter school term begins.
Aug.	30	
Sept.	4	Labor Day (Holiday).
Sept.	21	Normal Collège opens at Truro.
Nov.	13	Second Quarter begins.

DATES OF MEETINGS OF BOARDS OF DISTRICT SCHOOL COMMISSIONERS.

Antigonish—Wednesday, 10 May. Guysboro—Wednesday, 17 May. St. Mary—Wednesday, 7 June.

(a) Colchester South-Monday, 1 May.

(b) (b) Colchester West-Thursday, 4 May. Colchester North—Thursday, 18 May.

Cape Breton—Thursday, 25 May. Pictou East-Monday, 1 May.

Pictou West-Monday, 8 May.

Cumberland—Thursday, 25 May.

Parrsboro—Thursday, 4 May. Chester—Thursday, 1 June.

Queens North-Wednesday, 10 May.

Queens South—Thursday, 18 May. Lunenburg—Tuesday, 9 May.

Inverness North—Saturday, 20 May.

Victoria—Saturday, 3 June.

Shelburne—Tuesday, 23 May.

Barrington—Friday, 26 May. Argyle—Thursday, 15 June.

Yarmouth—Monday, 12 June. (q)

Kings-Tuesday, 9 May. (e)

Hants East—Thursday, 27 April. (g) (t)

Hants West-Wednesday, 18 May. Inverness South—Wednesday, 7 June.

Richmond—Wednesday, 5 July.

Halifax East—Wednesday, 24 May.

Halifax West-Wednesday, 15 June.

Halifax Rural—Monday, 29 May.

Annapolis East—Monday, 15 May. Annapolis West—Friday, 16 May.

Digby—Thursday, 18 May. Clare Friday, 19 May.

Kentville; (e) Windsor; (f) Elmsdale; (g) Port Hood. (a) Truro; (b) Great Village; (c) Tatamagouche;

DISTRICT SCHOOL COMMISSIONERS.

Victoria Malcolm McMillan, Big Harbor.

Lower Wash Neil P. S. MacLean, London Mary Frost

Porter (Mary Frost Neil P. S. MacLean, Lower Washabuckt.

Mrs. Jos. M. Porter (Mary Frost Porter), Deerfield.

John McLeod, Elder, Port Bevis.

Colchester South—A. Gilmore Creelman, Upper Stewiacke.

Sections having Annual School Meeting First Monday in March.

Inverness North:—Friar's Head, No. 14. White, No. 15.

Lunenburg:—First Peninsula, No. 2.

Sections placed on 2nd Schedule.

Snyder's, No. 21, Lunenburg, 26 April. Cross Roads Ohio, No. 52, Antigonish, 26 April. Woodfield, No. 66, Pictou East, 26 April.

ERRATA.

April, 1915 Journal—Catalog, Page 72—The following books in this list are now out of print:—

> Fraser—Pictures from the Balkans. Angus—Japan, The Eastern Wonderland. Hudson—Stories of the Renaissance.

October, 1915 Journal, Page 64 add to Baddeck list. Sadie Ella Carmichael (IX on X). Alex J. McLeod (IX on X). Nellie Margaret Crowdis (IX on X).

October, 1915 Journal, Page 75, add to Halifax (Bloom field List).

Under IX-Mabel Clarke.

October 1915 Journal, Page 78 under Lockeport after Mabel Sophia Crowell add IX on X.

October, 1915 Journal, Page 86 add to Port Hood List er IX William Cordon Smill under IX William Gordon Smith.

The following schedules were omitted from the general on page 81. list on page 81.

Region Va. Mary A. Laurie, Middle Melford, 22 obset ons. vations.

Region Vc. Alice V. Cruikshank, Caledonia, 26 observations. Region VIIa. Stella M. Strople, Bayfield, 17 observations, Region VIIa. Call.

Region VIIa. Catherine M. Chisholm, Marydale, rvations. observations.

Region VIIa. Sadie MacDonald, Monks Head, 43 Obset ons. vations.

Special Statistics 150 (a), 150 (b) and 150 (c).

The special statistics to be entered in columns of the School Register to be copied into the Annual Return at the end of the present school term, 30th June, shall be as follows:-

- 150 (a). How many of the pupils enrolled on the Register of this school room within the last two years, have enlisted for military service?
- 150 (b). How many teachers employed in this school room within the last two years, have enlisted for military
- 150 (c). How many of the pupils enrolled this present Year, are members of "The Boys' Scouts," "Church Brigades," organization (not including High School Cadets)?

Inspector of Schools for Division No. 4.

including the Counties of Annapolis and Digby, succeeding the late Leander S. Morse, is Mayhew C. Foster, B. A., Bridge-

Standard Time for Examinations.

The examination time tables must be understood at every examination time tables must be understood. Sixtieth derid:

Powing Statutes. Vol. 1, p. 8 Cl., in accordance with the Revised Statutes, Vol. 1, p. 8, Chap. I, 22 (25).

The History of Vaccination.

by Dr. Fraser Harris of the University of Dalhousie will be found beginning at page 33. Teachers and candidates for teachers' licenses are expected to know why vaccination is considered to be important as a public health measure.

N. S. School Book Bureau.

Full information is given about the Bureau from page 135 to 140 information is given about the Bureau non public teachers and trustees can after June obtain books Teachers and trustees can after june octain small lots, with 10% discount and transportation on orders over \$3.00.

For Changes in Regulations.

See Grade X Latin and Algebra, pages 125 and 126; fees and partial exams. in M. P. Q., pages 91 and 101; common school and 120. Grammar and Bookkeeping at pages 113 and 120.

Soldiers' Certificates—High School Students

who have made sufficient progress in their various classes to enable the principal of the school to certify to his belief that they would be likely to make a "pass" in each subject necessary for a pass certificate of the Grade, and who enlisted previous to the terminal examination in June, may be awarded special certificates indicating the subjects in which they were estimated to be capable of making a fair pass (about 50%), a good pass (about 65%) or a superior pass (about 80%). Thus, Grade XI: English, LATIN, French, Geometry, ALGEBRA, History, Physics, would mean fair passes in English, Geometry and Physics; good passes in French and History; superior passes in Latin and Algebra. One underline should mean a good pass; two underlines a superior pass.

The names addresses and statistics of each such individual must be given by the Principal of the school on the ordinary examination application form, with the pass subjects indicated as shown above. They should be sent in on regular application forms for candidates to the Inspector after the 15th but before the end of May. If the Inspector knows the school and principal to be trustworthy, he shall place the names on a special list to be sent to, and kept in, the education office, until the student returns from the war or his military duties and asks for his certificate.

This certificate can not show examination percentages; but it must show subjects in which a passable proficiency was attained—or a good or superior proficiency—so that it may of use for matriculation into a University, or for the scholarship basis of a teachers' license.

The order of the C. P. I. is as follows:

The Council has decided to accept the detailed statements (when endorsed by the school inspector) of Principals of high schools, certifying to the "pass" by the various subjects of the Grades of their high school students who standing in the various subjects of the Grades of their high school students it is enlist for military service; and shall grant on such statement, providing it is shown that the student owing to his military duties could not present himself state terminal examinations, a Provincial High School Certificate indicating at the subjects of the Grade in which the candidate is certified to be presumably the subjects of the Grade in which the candidate is certified to be presumably values to each subject, will enable the holder to present it as evidence of "pass" qualifications in the subjects specified.

Principals of schools will please take notice of this decision and send in on regular application forms for examination names, etc., of such deserving candidates, with the subjects indicated as directed above in the column for "Remarks."

List of Teachers and Pupils who Volunteered.

It is desired to have a correct list of the teachers and pupils of the schools from 1914 down to date who volunteered to serve as soldiers, engineers, nurses, etc., in the great world war for British civilization.

Teachers are requested to make as complete lists as possible of these in each school section, and send them to their Inspector, if possible before the end of May.

The Inspectors will tabulate these lists, for each District and inspectorial Division, classifying and correcting the lists that no one should be counted more than once, etc., and transmit the lists to the education office, where they may be on file whenever such information may be found to be wanted.

It is desirable to have not only the full name and address, but any other brief definite information, such as the branch of service, casualties etc. It is to be hoped that no school section nor volunteer may be overlooked.

School Law Amendments, 1916.

An Act to Amend Chapter 2, Acts of 1911, "The Education Act."

BE it enacted by the Governor, Council, and Assembly, as follows:

1. Section 47 of Chapter 2 of the Acts of 1911, "The Education Act," is repealed, and the following section substituted therefor:—

"47. approved by the Inspector may dismiss from their employ any teacher for incompetency, persistent neglect of duty, or immoral conduct; or should the teacher's neglect of duty or inmoral conduct; or should the teacher's neglect of the trustees may by hear conduct be too gross for toleration, the trustees may by unanimous resolution promptly suspend the teacher until the Inspector's decision can be obtained.

shall immediately forward a written statement of their action and the and the grounds of their action with the evidence, to both the Inspector and Superintendent.

be subject to an appeal by the teacher to the Council, which may reverse or vary the action of the trustees.

- (4) In the event of any teacher being suspended or dismissed under this section, the pay of such teacher shall thereupon cease, unless it is otherwise ordered upon appear to the Council, but the teacher shall be paid ratably up to the time of the suspension or dismissal.
- 2. Section 74 of said Chapter 2 (as amended by section 23 of chapter 14 of the Acts of 1915) is repealed, and the following section substituted therefor:—
- When the Trustees or Commissioners of any school section provide a department for manual training in any of the mechanical or domestic arts, with adequate equipment for at least twelve pupils at the same time, and have employed a teacher certified by the Council to be competent to givepractical instruction therein, and have caused such instruction to be given free for one session of two hours each week to the residents of the section, and have in these and all other respects efficiently conducted the public schools of the section in accordance ance with law, then the Council may pay out of the provincial treasury to such trustees or commissioners, in semi-annual instalments or otherwise, as determined by the Council, a sum of fifteen cents for each two-hour lesson to each pupil, provided that the whole amount so paid out of the provincial treasury to such trustees or commissioners shall not, in any year, exceed six hundred dollars, over the s six hundred dollars; except in the case of the cities of Halifax and Sydney, in which the amount shall not in any year exceed twelve hundred dollars; provided, however, in no case shall any money paid under this section exceed during any year half the amount expended on the department qualifying for the grant in salaries of the transfer of the in salaries of the teacher and janitor and the cost of material used in the class work."
- 3. Section 75 of said Act (as enacted by said section the of chapter 14 of the Acts of 1915), is amended by adding the following sub-section:—
- (2) There may from time to time be paid to any special poor section out of the provincial treasury, upon the recommendation of the Inspector, and the authorization of the Council, such grant in addition to the extra aid provided Inpoor section by this Act as may be recommended by the spector; provided, however, that in no case shall the said grant exceed the amount voted and collected by the section as sectional school rates, nor in any case the sum of \$60.

Rural School Compulsory Attendance.

Out of the 1796 school sections of Nova Scotia, all the cities and towns have compulsory attendance law in force, and about 1200 rural school sections. But the law for the rural schools has proved to be practically useless for several reasons. One reason is that it merely attempts to scare people by threatening them with a little fine next year if their children do not attend school at least 120 days this year. The law allows them to stay out; and when the day of punishment comes the trustees feel that the Act is penal and not preventive, and seldom have the heart to enforce it.

In the cities and towns Act, as soon as a pupil is noticed to be five days absent, he has to be looked after and kept in attendance. Not a single complaint has come from a city or town of the working of the Act, except in one case, where it is maintained that the children of persons in the British Army should not be exempt.

Proposed Rural School Compulsory Attendance Law.

Owing to the lateness of the introduction of the following Bill into the Legislature, and to give school trustees and the Renault the Legislature, and to give school trustees and the general public an opportunity to see if it would be an improvement on the present useless law, it has been left over for consideration the present useless law, it has been left over for consideration the effective law sideration next year. It is an effort to apply the effective law for the cities and towns to rural schools. Those approving the bill or objecting to any features of it should send their views to the Superintendent of Education who will have them brought to the attention of the next legislature.

An Act to Amend Chapter 4, Acts of 1915, "An Act Respecting Compulsory

BE it enacted by the Governor, Council, and Assembly, as follows:

Attendance Act," is amended by adding thereto the following Part:

in Which This Part shall apply to every school section, not being a city or town, adopted by a vote of the majority of the qualified voters present at any annual meeting for analysis section."

of Part I. After the adoption of such resolution as aforesaid, all the provisions the first day of A (except as herein otherwise provided) shall mutatis mutandis on the first day of August following such adoption come into force in such section."

- "39. Where said Part I, is made applicable to any school section other than a city or town, the following terms used in said Part shall, in applying the same to a school in which this Part is in force, have the meaning in this section defined, unless the context otherwise requires:
 - (a) The expression "The Board" means the school trustees of a school section in which this Part is in force:
 - (b) The expression "Police Officer" means any municipal constable or special constable appointed by the section for the purpose of enforcing the provisions of this Act:
 - (c) The expression "Child" means any boy or girl between the 3ges of seven and fifteen years, living within a section in which this Part is in force;
 - (d) The expression "Street Trade" means any occupation, business, in trade or calling requiring the use of the public highways within a section in which this Part is in force. which this Part is in force;
 - (e) The expression "City or Town" in section 5 of said Part I means "School Section":
 - (f) The expression "Stipendiary Magistrate" means a stipendiary magistrate for the municipality in which is situated a school section in which this Part is in force." this Part is in force."
- "40. When this Part is brought into force in any school section, sections 115 to 119 of Chapter 2 of the Acts of 1911, so far as the same may be applicable to such section, are repealed. to such section, are repealed.

Schedule to Part II.

"RESOLVED, that the provisions of Part II, of Chapter 4 of the Acts of 1915, respecting Compulsory Attendance at School, be brought into force in this school section No.....in the District of "

2. Where the words "Part I," are used in this Act the expression means pter 4 of the Acts of 1915 as the come are in this Act the expression Act. Chapter 4 of the Acts of 1915 as the same existed previous to this amending Act.

Examination Week is Grading Week.

Time spent in grading schools before examination week cannot be credited to a teacher as teaching days. Teachers taking the terminal available of taking the terminal examinations bona fide may get credit for the week as teaching time with the the week as teaching time with the approval of the Inspector who will be able to indee the control of the Inspector who will be able to judge of the propriety of so doing.

There are secretaries of school boards who do not yet distinguish between the terms grade of scholarship, rank of professional training and state of scholarship. fessional training, and class of license.

Medical Inspection Statistics.

125. How often has the school been inspected medically entally during the war? "O been inspected medically or dentally during the year? "One" should mean "that each pupil in the schoolroom was inspected once." If the medical or dental examiner came on source! or dental examiner came on several days, inspecting only a corresponding portion of the call responding portion of the schoolroom pupils each time,

answer to 125 should still be "once." If there should be 30 school rooms in the section the Trustees' returns would have for answer to No. 125 "30", which would mean that "the pupils of the 30 classrooms were each inspected once during the year." Were this answer 60; it would mean that the 30 schoolrooms were each examined twice during the year. Were the answer 45, it might mean that the 30 were inspected once, and 15 twice.

Regulation 26

requires that the sectional rate roll shall be made out and posted by the trustees on or before the last day of September, and shall be collected as promptly as possible so as to provide for the quarterly payment of salaries and other accounts due.

NOTES AND COMMENTS.

The Flag Demonstrator

Consists of three sheets of metal painted in flag colors, about 12 by 6 inches each, hinged so as to fold on the center sheet. The center sheet can be tacked, nailed or screwded to the wall, so as to allow the two side pieces to fold on it, or to be extended out. When extended, the white St. Andrew Cross of Scotland is in the center on a blue field; the red St. Patrick Cross of the red St. George Ireland on a white field is on the right; and the red St. George Cross of England is on the left.

Close up the left wing and we have the first Union Jack, showing the union of the St. George and St. Andrew Cross.

Close up the right wing and we have complete Union Jack, showing the three crosses and fields combined.

A capital idea to illustrate the evolution of our flag. printed card nearly 6 by 12 inches goes with it giving the history Publishing Court of the evolution. It is published by the "Map the history of the evolution." It is published by the "Map the history of the evolution." It is published by the "Map the history of the evolution. Publishing Co.," of Toronto, at fifty cents each, f. o. b., Toronto.

Our Schools Recruiting Day

Which opened the Highland Brigade crusade, is reported by the Condon, England Chronicle to have been alluded to by General Sir Sam Hughes in words like these:

into the souls of men wherever freedom is loved! We've raised 800,000 men in

Canada, and we can raise as many more. The other day we raised in Nova Scotia alone, a gallant little province like that, a whole Highland Brigade in a fortnight. Think of it! And these men, who speak the Gaelic, are the finest fighters in the world, serious, dour men, and everyone of them is willing to leave his bones in Flanders. What for? For Human Liberty. Oh, I tell you the spirit out there is fine—its fine. There is a freshness about it, and a greatness, and something of a beauty, too. Its the most inspiring thing in my life. I always knew Canada could do it. But the doing of it, the actual thing done before your eyes—well, its magnificent."

It was a whirlwind sweep over the whole province, In many cases the February Journal with instructions did not reach the school in time for Friday the 25th; but the work was done then all the more effectively a few days later. The reports of the teachers were in many cases so interesting and on the whole so worthy of presentation for historical purposes, that the Inspectors were asked to have them transmitted to the Education Office.

Increased Protection and Saving.

Dr. C. C. James, Dominion Agricultural Commissioner, is calling attention thru all Canada to the urgent necessity of increased "Production and Thrift." The schools are expected to stimulate the productions of not only "school gardens" but of the home gardens as well as of the farms. The pupils are instructed to carry a message from the schools to the parents: "Let us produce—let us raise as much as we possibly can; for that may be as useful as any other form of service in helping to bring this war to a successful close."

But "Thrift" is also as necessary. If the eight million people in Canada save only one dollar per head a month thrust the year in dress, luxuries, or in any other way, they can a war loan of nearly \$100,000,000 (one hundred million dollars) from these savings alone, from which forever afterwards they may draw every year \$5,000,000 of interest in semi-annual instalments. They will thus be partners in conducting the war, shareholders in the fortunes of Canada, and perpetual annuitants of the country they helped to defend.

We have also to remember that the increased taxation to pay the cost of the war will increase the cost of living in addition to the effect of the general dislocation of many lines of business, and the many and various calls for aid which are already becoming numerous.

From the Department of Commerce, Washington, D. C., U. S. A., we have received an announcement of the imminent shortage of paper material. School and other books are beginning to go up in price. We are asked to have it announced

in every school, that all waste paper and rags should be saved carefully, instead of being burned or otherwise destroyed. Save every scrap of waste paper. It will all be needed.

School Savings Banks:—Paul L. Evans, head commercial department, Alameda High School, Alameda, Cal.

A good-sized bank account is a declaration of independence. The shadow of the dollar sign falls across our way at every turn. A good citizen is a saver. Education for life must include instruction in the simple principles of economics, training for life must include instruction in the simple principles of economics, training in the use of money and in habits of thrift. School savings banks have now have now become an integral part of our educational system in the United States as well as integral part of our educational system in the United States as well as in Europe. Mrs. Sara L. Oberholtzer, of Philadelphia, is the leading exponent of this work in the United States. Belgium was first to instal the school bank thru one of her great educators, Professor Francois Laurent, before Public school of Property and Palairum enforced an intense application of the system. Public school of France and Belgium enforced an intense application of the system. John L. introduced systematically in the United States at Beloit, Wis., in 1876. It was introduced systematically in the United States at Beloit, Wis., in 1876. John Henry Thiry, native of Belgium, permanently implanted school savings in the Public schools of the New England states. He began about 1885. Pitts-13,000 pupil depositors last year. Oakland public schools have done much with the system. The 1915 reports show over \$5,000,000 balance to the credit of system is now found in the high schools. California has taken the lead here. As an Jose, Alameda, Los Angeles Manual Training High. In these schools, pupils do all of the clerical work such as receiving deposits, bookkeeping, figuring interest. pupils do all of the clerical work such as receiving deposits, bookkeeping, figuring interest all of the clerical work such as receiving deposits, bookkeeping, figuring interest dividends, making out daily financial statements, etc. In San Jose and at Alamanian statements at Alamanian statements at Alamanian schools as well. at Alameda, high-school pupils act as collectors for grammar schools as well. State Superintendent Hyatt, of California, writes:—

I should be glad to see school savings banks in all the schools of California. They are worthy of high commendation.

(School & Society, Vol. II, No. 46, Nov. 13, 1915).

Paragraph from Ontario Education Department Circular issued April, 1916.

The school can do more than merely teach children about saving; by the establishment of a school bank it can do what is even more important—help them to practise saving. To encourage this—the best method of teaching thrift—every assistant in 1905 under sistance is given by the Penny Bank, authorized in 1905 under the December 1905 under This institution the Dominion Government Penny Bank Act. This institution has be a second to the country has been enabled to extend its work thruout the country thru the enabled to extend its work thruout the country thru the generous cc-operation of local branches of the Chartered banks. School Boards are authorized under an Ontario Ontario Act to supply the Cash Books, Ledgers, Pass Books and cat to supply the Cash Books, Ledgers, Pass Books and other stationery for the benefit of the children. This school is school bank has proved itself a most efficient aid to thrift in those challenges. Thru its those communities where it has been established. efforts the school children of Canada now have over \$300,on deposit with the Government.

Specimen forms and full information regarding the working of the School Bank may be obtained from the Head Office of The Penny Bank in Toronto.

The Canadian Independent Naturalist Association for the Protection of Wild Birds and Animals.

has for ite Head-Secretary-Treasurer, Mr. Leonard Peever, 112 Slater St., Ottawa. The C. I. N. A. Junior League publishes a magazine "Nature's Advocate."

The American Humane Association

publishes "The National Humane Review". The office of its secretaries is in the "Humane Society Building", Albany, New York State, U. S. A. The annual meeting will be held in Cincinnati, Ohio, Oct. 16-19, 1916.

Official Notice-8 May, 1916.

SUBSTITUTE EXAMINATION IN GERMAN, ETC.

The High School examination on Saturday 24th June, is necessary on account of the Regulation of the Council of Public Instruction based on the recommendation of the Advisory Board that the examinations be held on the last six week days of June. This makes it necessary this year to begin on Saturday.

Acordingly, the subjects taken by the fewest candidates were placed on the program for that day, German X, XI and XII, and two other Grade XII papers taken by very few.

Some persons who attach great importance to the observance of the Jewish Sabbath protest against examination work on that day. It is, therefore, authorized by the Council of Public Instruction to give another set of examination questions to such on the first Monday of July, beginning at nine o'clock.

This will be open free of charge to those who have already applied for examination, on the subjects of the Saturday time table, provided they inform the Superintendent before the first day of June, of the subjects on which they desire to be amined, and make a declaration of the principle preventing their writing on Saturday

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