JOURNAL

OF

EDUCATION,

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

NOVA SCOTIA.

APRIL, 1907.



Published by Order of the Legislature of Nova Scotia.

IIALIFAX, N. S.: COMMISSIONER PUBLIC WORKS AND MINES, KING'S PRINTER, 1907.

Journal of Education.



SECOND SERIES: OCTOBER, 1878, TO AUGUST, 1892; XII. Vols., 29 Nos. FIRST SERIES: SEPTEMBER, 1866, TO AUGUST, 1877; 73 Nos.

HALIFAX, NOVA SCOTIA, APRIL, 1907.

OFFICIAL

I.—The JOURNAL OF EDUCATION shall be published semiannually, in the months of April and October respectively, and shall continue to be the medium of Official Notices in connection with the Department of Education.

II.—The JOURNAL, 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 JOURNAL 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.

Council of Public Instruction.

Hon. G. H. Murray, K. C., Ll. D., Premier and Provincial Secretary.

Hon. W. T. Pipes, K. C., M. P. P., Attorney-General.

Hon. C. P. Chisholm, M. P. P., Commissioner of Public Works and Mines.

HON. DAVID McPHERSON, M. P. P.

HON. B. F. PEARSON, M. P. P.

Hon. Jason M. Mack, M. L. C.

Hon. O. T. Daniels, K. C., M. P. P.

HON. JAMES MACDONALD, M. P. P.

HON. H. S. LEBLANC, M. P. P.

EDUCATION OFFICE.

A. H. Mackar, B. A., B. Sc., Li. D., F. R. S. C., Superintendent of Education and Secretary of Council of Public Instruction.

"GEO. W. T. IRVING, Chief Clerk.

INSPECTORIAL DIVISIONS, WITH NAMES AND ADDRESSES OF INSPECTORS.

Division No. 1, the City and County of Halifax-Graham Creighton, B. A, Halifax.

Division No. 2, the Counties of Lunenburg and Queens—H. H. MacIntosh, Lunenburg.

Division No. 3, the Counties of Shelburne and Yarmouth—C. Stanley Bruce, Shelburne.

Division No. 4, the Counties of Digby and Annapolis—Leander S. Morse, A M., Digby.

Division No. 5, the Counties of Kings and Hants—Colin W. Roscoe, A. M., Wolfville.

Division No. 6, the Counties of Antigonish and Guysboro—A. G. Macdonald,
A. M., Antigonish.

Division No. 7, the County of Richmond and the District of South Inverness—M. J. T. Macneil, B. A., River Bourgeois, C. B.

Division No. 8, the County of Victoria and the District of North Inverness— John McKinnon, Whycocomagh, C. B.

Division No. 9, the County of Pictou-E. L. Armstrong, Pictou.

Division No. 10, the County of Cumberland-Inglis C. Craig, A. M., Amherst.

Division No. 11, the County of Cape Breton—T. M. Phelan, A.M., LL B., North Sydney.

D vision No. 12, the County of Colchester-W. R. Campbell, M. A., Truro.

PROVINCIAL AID

To Teachers employed in the Public Schools for the half year ended Feb. 1, 1907.

The Asterisk (*) marks those employed in Poor Sections.

iber of Teaching	it paid to Teachers from Provincial
ays employed.	Treasury
Tumber Days	im't pa ers fr Treas

ANNAPOLIS.

· ·		
Bishop, Mabel E	100	\$64 87
Magee, Wm H	100	90 82
Ruggles, Lenfest	105	95 37
Armstrong, Mildred J	104	53 98
Baltzer, Ivy M	105	54 50
Banks, Beriah S	99	51 38
Bent, Reginald W	481	25 17
Bligh, H Alice	99	51 38
Brinton, Effie S	103	53 46
Bustin, Harry L	103	53 46
Chisholm, Hattie E	105	54 50
Chute, L Maude	105	54 50
Cossett, Otta VonB	104	53 98
Crisp, Wm K	105	54 50
Dodge, Bessie M	105	54 5 0
Durling, Ina	105	54 50
Etter, Jamesina	105	54 50
Etter, Margaret	105	54 50
FitzKandolph, Mary F	100	51 90
Foster, Mayhew C	105	54 50
Graves, Eva M	99	51 38
Hall, Henry E	97	50 34
Halliday, Frank N Harris, C Louise	105	54 50
Harris, Margaret M	100	51 90
Harris, Margaret M	105	54 50
Hockin, Elsie N Martel, Katherine H	49½ 105	25 69
McMillan, Alice	100	54 50 51 90
	99	51 38
Moses, Winifred Oxley, Gertrude O	105	54 50
Smith, Vera M	103	53 46
Spinney, Theodore H	105	54 50
Van Buskirk, John L	105	54 50
Whitman, Cassie S	105	54 50
Whitman, Laura M	105	54 50
Young, Lottie M	105	54 50
Annia, Bessie M	104	40 48
Bacon, Agnes 8	105	40 87
Baker, Ermina M	105	40 87
Baker, Kate A	105	40 87
Banks, Almeda M	105	40 87
Bent, Lillian B	104	40 48
Bent, Lillie M	20	7 78
Berteaux, A Josephine	103	40 09
Berteaux, Lizzie A	105	40 87
Bishop Annetta C	108	40 09

Brown, Mary McL	105	40 87
Buckler, Emily J	105	40 87
Chesley, Etta M	105	40 87
Daniels, Clara A	105	40 87
Denton, Curtis L	105	40 87
Dunn, Annie M	95	36 98
Elliott, Sarah L	97	37 76
Ellis, Florence M	96	37 37
Gesner, Ann E Harris Ethel M	76	29 57
Harris Ethel M	105	40 87
Harris, Mary H	105	40 87
Healey, Bertha A	105	40 87
Hiltz, Annie L	40	15 56 40 09
Hoyt, Winnifred	103	40 87
Jackson, Annie L Kempton, Susie W	105	40 87
Lambertson, Nora M	105 105	40 87
Lockward, Grace E	105	40 87
McCormick, Albert E	103	40 09
McDonald, Blanche	68	26 47
Mills, Hattie G	104	40 48
Morse, Nellie C	105	40 87
Palfrey, Olive B	88	34 25
Parker, Millie V	105	40 87
Phinney, Lillie L	104	40 48
Raymond, Vera M	105	40 87
Ritcey, Adelaide M	105	40 87
Roy, Maude E	105	40 87
Ruggles, Blanche A	105	40 87
Ruggles, Florence L	96	37 37
Saunders, Julia R	53	20 63 40 48
Starratt, Beatrice	104	40 47
Sutherland, Lillian M Tanch, Hannah E	105	40 87
Tibert, Walton K	105 105	40 87
Webster, Grace C	105	40 87
Young, A Maude	105	40 87
Young, Isabella H	65	25 30
Anderson, Eunice M	105	27 25
Annis, Vivian A	83	21 54
Baker, Hallie J	100	25 95
*Balcom, Roy I	65	22 49
*Berteaux, Amv E	86	29 76
*Berry, Ella M	105	36 33
*Caldwell, Lola I	54	18 68 36 33
*Crisp, Mary L	105	27 25
Croscup, Jennie A	105	29 76
*Elliott, Ora B *Fairn, Bessie C	86	29 76
Farnsworth, Percival W	86 105	27 25
Foster, Laura W	86	22 32
Gesner, Ann E	24	6 22
Gesner, Annie I	20	5 18
Gesner, Edwd D	104	26 99
Hall, Elsie N	105	27 25
Halliday, Isaiah	105	27 25
"Harris, Lucy E	105	36 48
noyt, Jennie I.	41	10 64
Lent, Georgie A	105	27 25
Longley, Annie M	82	21 28 22 84
Marshall, Ida M	88	14 78
McGill, Flora M	57	22 32
	86	27 25
McNeily, Wm H	105	29 76
Meisner, Hilda M Millner, G Evelyn	86 \ 100	25 90
Millner, Gratia J	88	30 45
Munro, Annie M	15	3 88
unite M	10	

Ritcey, Mae T	105	27 25	McNeil, Margaret	105	40 87
*Roop, Bessie J	44	15 23	Rogers, William J	- 105	40 87
*Rosengren, Bertha E	101	34 94	Sutton, Katherine E	105	40 87
*Schaffner, Etta L	83	28 72	Sister Mary	105	40 87
Speakman, Flora G	86	22 32	Sister M Veronica	105	40 87
Stark, Hattie L	105	27 25	Sister St Hugh.	103 103	40 09 40 09
"Stevenson, Margaret B	104	35 98	Sister St Camillus	105	40 87
"Troop, Alice M	105	36 33	Walsh, Mary	105	27 25
roop, Bessie L	105	27 25	Chisholm, Mary Chisholm, Isabel A	105	27 25
van Tassel, Bertha S	105	27 25 22 3 2	Crispo, Evelyn	105	27 25
Wheelock, Mildred E	$\begin{array}{c} 86 \\ 42 \end{array}$	10 90	Fitzgerald, Annie	105	27 25
White, Alma A	40	13 84	Fraser, William	105	27 25
White, Susie	86	22 32	Gillis, Sarah B	105	27 25
Wilkins, Hattie E *Wilkins, Margaret	28	9 69	*Gillis, Augusta J	100	34 60
Wilson, Emma M	105	27 25	Hanifen, Margaret M	103	26 73
Winchester, Ruth H	104	26 99	DeLevandier, Vincent	104	26 99
Woodbury, Harold C	105	27 25	*Martin, Ellen	38	13 15
Woodward, Lola M	83	22 32	Macdonald, Marcella	103	26 73
Post Water, Lond and			Macdonald, Annie	101	26 21
Assistant.			Macdonald, Cassie	99	25 69
			Macdougall, Annie	101	26 21
Crowe, A Boyd	31	ક 04	McEachern, Mary E	99	25 69
. •			McGillivray, Bessie A	105	27 25
		i	McGillivray, Margaret	105 105	27 25 27 25
· NAME OF STATE	TT		McGillivray, Margaret	105	27 25
ANTIGONIS	п.		McGillivray, May McGillivray, Mary A	105	27 25
Om	85	\$66 18	*McInnis, Cassie M	105	36 38
Gillis, Dougal C	85	44 12	McIntosh, Gertrude	84	21 80
McGillivray, Andrew	77	69 93	McKinnon, Mary A	101	26 21
McPherson, Hugh	103	66 82	McKeough, Bella	105	27 25
Sister St Thomas Tompkins, James J	85	66 18	McKeough, A A	105	27 25
Boyd, Angus J	105	54 50	*McLean, Mary B	89	30 80
Gillis, D McK	100	51 90	McPhie, Mabel	66	17 12
McKenzie, Donald J	88	43 08	Purcell, Margaret E	83	21 54
McLean, William	105	54 50	Smith, Christina	105	27 25
Aughend Annie E	103	53 4 6	Stropel, Florence	105	27 25
Wewcomb. L. A.	103	53 46	Sister St Thomas	103	26 73
Somers, Alex M.	105	51 50	Sister St Helen	103	26 73
Oleter St. Leonard	103	53 46	4		
Sister M Victoire	105	54 50	Assistant	8.	
wameron William D	97	37 76		05	06.41
Cameron Mary C	102	39 70	Boyd, D D	85 77	29 41 26 64
Sourteen, Violet	105 103	40 87	Connolly, Cornelius J	85	22 06
~ Colinan Minarva	99	40 09 88 54	Beaton, Ronald	00	
Chisholm, Dan M	105	40 87			
Chisholm, Mary A	20	7 78	1		
Chisholm, Bessie Chisholm, Cassie	105	40 87	CAPE BRE	ron.	
Chisholm, Christine	103	40 09			
Decoste, Joseph	105	40 87	Armstrong, J Arthur	100	\$90 82
YOUN Catherine	105	40 87	Brodie, William S	100	90 82
	105	40 87	Davidson, Milton DeL	105	95 37
	105	40 87	England, Harry B	100	90 82
	95	36 98	McKenzie, George W	105	95 37
	105	40 87	MacLeod, Jennette R	100	64 87
	97	37 76	Matheson, Duncan M.	86	78 12
	105	40 87	Stewart, Frank I	105	81 75
	105	40 87	Beaton, A Laura	80	41 52
	102	39 70	Bishop, Emma E	100	51 90 47 23
	103	40 09	Boss, Maud O Brown, Eleanor F	91	54 50
	102	39 70	Bruce, Harriet S	105 08	49 32
	105	40 87	Cameron, Lorrie J	96 93	48 27
	104	40 48	l a L-II Ioon E	70	36 33
	100	38 92		105	54 50
McNeil, Daniel	93	36 20	Campoon, and a	100	

			· · · · · · · · · · · · · · · · · · ·		
Chisholm, Nellie	86	44 64	Fulton, Edith I	100	38 92
Edgecombe, Ethel	100	51 90	Gillis, Margaret E	100	38 92
Elljott, James H Gillis, Maude	81½ 100	42 30 51 90	Grattan, A Myrtle	55	21 41
Gillis, Simon P	9	4 67	Greig, Ida H	30	11 67
Grant, Ethel M	100	51 90	Hamilton, Agnes E	100	39 92 38 92
Grant, Lina	95	49 30	Hanrahan, Mary Harrington, Annie E	100	38 92
Gunn, Annie	69	35 81	Harris, Gladys E	100 100	38 92
Hall, Carrie M	90	46 71	Hartigan, Katherine L	105	40 87
Haverstock, William E	105	54 50	Herman, Edith M	105	40 87
Herdman, William C	104	53 98	Holmes, Katie M	95	36 98
Lawley, James H	103	53 46	Howatson, Jessie	100	38 92
McDougall, John	96	49 82	Knowlton, Edith H	94	36 59
McGillivray, Angus	$68\frac{1}{2}$	35 55	Lawrence, Mary G	101	39 31
MacInnes, Duncan	100	51 90	Leonard, Isabel M	77	29 9 6
Macintosh, Anna B	20	10 38	Leslie, Alfreda M	103	40 09
MacKenzie, Anna B	105	54 5 0	Macaulay, Jessie	102	39 70
McKenzie, Kate A	100 95	51 90	MacCabe, Georgie	100	38 92
McKinnon, Joseph D MacKinnon, Mary	105	49 30 54 50	MacCabe, Grace M	68	26 47
McLean, Christina S	105	54 50 54 50	MacDonald, Agnes C	98	38 15
MacPhee, Loretta I	104	53 98	Macdonald, Catherine A	94	36 59
Miller, Bessie G	100	51 90	Macdonald, Ethel M	105	40 87 38 92
Munn, Nina A	105	54 50	MacDonald, Jean F Macdonald, Nellie	100	38 92
Ross, K Ida	100	51 90	Macdonnell Theresa	100 86	33 47
Sister Francis Xavier	100	51 90	Macdougall, Daniel J	91	35 42
" M Agnita	100	51 90	MacInnis, Dorothea J	105	40 87
" " Amabilis	100	51 90	McIntyre, Matilda	100	38 92
" " Annette	100	51 90	McIsaac, D Joseph	99	38 54
" " Aquinas	100	51 90	East Bay consolidation (2)		51 38
" " Clarissa	100	51 90	99 days)	·	
" Cleophas	100	51 90	McKenzie, Archibald J	100	38 92
" " Gerard	100	51 90	McKeough, William T	100	38 92
0.00109	100	51 90	McKinnon, John J	105	40 87
MOMICHIC	100	51 90	MacKinnon, Katie	105	40 87
" " Vincentine " St John	100 100	51 90	McLeod, Cecilia I	105	40 87
" Margaret	100	51 90	MacNiel, Katie	99	38 54 19 46
" " Mary	9	51 90 4 67	Macneil, Maria A	50	40 87
" " Mary (Asc)	• 9เ	47 23	McNeil, Mary Jane	105	40 67
" Teresa Joseph	101	51 90	MacPhee, Teresa R McRury, Sadie M	104 \frac{1}{2}	40 48
Smith, Mamie K	86	44 64	Martell, Mattie O	104 100	38 92
Sutherland, Mary	100	51 90	Morgan, Edith	80	31 14
Thurber, Ronald E	103	58 46	Morrison, Adelaide S	100	38 92
Tompkins, Matthew F	95	49 30	Morrison, Margaret	105	40 87
Woodill, Arthur W	105	54 50	Mosher, Blanche	105	40 87
Arsenault, Mary T	105 :		Muggah, Margaret	100	38 92
Barclay, Winnifred	86	83 47	Ormiston, Eliza E	89	34 64
Barrington, Harriet H	100	38 92	Palmer, Gladys E	10 4	40 48
Boutilier, Theresa	7,105 100	40 87 38 92	Patterson, Edith C	95	36 98
Browne, Bernice 1	104	40 48	Phelan, Rebecca S	105	40 87
Buckles, Sarah Burke Helena B	79	30 76	Phillips, Katie E	101	39 31 40 87
Cameron, Annie	100	38 92	Phoran, Alice Pierce, Celeste	105	40 87
Cameron, Laura	100	38 92	Reynolds, Edna G	105	40 87
Chisholm, Christina A	100	38 92	Robinson, Hattie L	105	40 87
Coady, Moses J	105	40 87	Ross, Maggie	105	27 63
Coady, Peter W	34	13 23	Schurman, Sadie	71 100	58 9Z
Cousins, Leah	105	40 87	Simpson, Margaret J	105	40 87
Cox, Josephine	100	88 92	Sister M. Ambrose	100	38 92
Currie, Donald J	105	40 87	" " Andrea	100	38 92
Desmond, Mary	105	40 87	" " Angelorum	100	38 92
Dobson, William A	9 3	3 69	" " Annina	100	38 92
Douglas, Fred A	100	38 92	" "Anthony	100	38 92
Doyle, Agnes C	105	40 87	" "Bernardine	100	38 92
Fife, Annie May	105	40 87	" Ethelberga	100	88 92 38 92
Flynn, Sadie	105	40 87	" Eulalia	100	38 92
Fraser, Lulu F	89	34 64	" " Josephine	100	00 00

Sister M Louise	100	38 92	Nickerson, Margaret	100	25 95
" " Oswald	100	38 92	O'Handley, Joanna	100	25 95
" " Wilfrid	100	38 92	Reynolds, Helen M	105 10 5	27 25 26 99
" St Aldric	100	38 92	Richards, Clara	104	27 25
" " Alexander	105	40 87	Rose, Lenora Sister M Imelda	100	25 95
Cashua	100 100	38 92 38 92	" M Lucilla	100	25 95
Clarison	105	40 87	" St Ann	100	25 95
" " John C " " Marsella	78	30 37	" St Henedine	105	27 2 5
" " M Dolores	21	8 17	" St Mary	100	25 95
" " Rosaline	100	38 92	Smith, John	90	28 35
Sutherland, Barbara I	95	36 98	Taylor, Emma	100	25 95 25 69
Tobin, Gertrude	62	24 13	Wallace, Jean	99	20 00
Tompkins, Miles N	100	38 92			
Arsenault, Mary S	86	22 32	COLCHESTE	er.	
Bates, Blanche	86	$22\ 32$ $18\ 94$	COLOITEST	316.	
Coady, Margaret Ann	73 60	15 5 6	SOUTH COLCHES	STER.	
Coady, Mary Ellen	100	25 95	200111		
Carmichael, Jessie Clarke, Wilhelmina	105	27 25	Campbell, W R	1 0 0	\$90 82
*Cox, Mary A	47	16 26	Dewolfe, L A	100	77 85
Dillon, Agnes W	100	25 95	MacKimmie, A A	100	77 85
Downing, L Minnie	99	25 69	MacDougall, E Mary	100	77 85
Fleiding, Clara	100	25 95	Richardson, Lophemia	98	76 29 54 50
The, Magdalen M	105	27 25	Archibald, C Mabel	105 100	77 85
Fraser, Josephine	100	25 95	Barteaux, J E	100	51 90
Gillis, M Margaret	100 86	25 95 22 32	Coleman, Edna F Creelman, Martha	100	51 90
Graham, Bessie F	46	15 92	Carter, Harriet	85	44 12
Hatfield, Claribel E	86	22 32	Dickson, Janet R	105	54 50
Kerr, Annie Kerr, Annie Florence	105	27 25	Dickson, Hattie .	100	51 90
Ley, Susan L N	33	8.56	Davidson, Clara E	100	51 90 54 50
Livingstone, Katherine	62	16 08	Dean, Bertha	10 5 100	51 90
MacAdam, Dan A	. 99	25 69		18	9 34
The Meadows Consolidati	on	or 00	Fulton, A Maude	105	54 50
(1 D 99 days)		25 69	Faulkner, Aveline Fellows, Annie	105	54 50
McArthur, Sadie C	98	25 48 25 95	Gay, Mabel L	48	24 91
adacaulay. Christie	100 77	19 98	Hunter, Jennie A	100	51 90
McCormick, Annie	105	27 25	Kinney, Julia	100	51 90
Macdonald, Elizabeth	100	25 95	Logan, Sadie B	104	53.98
McDonald, Ella M McDonald, Joanna	100	25 95	Linton, Edith	100	51 90
Macdonald, Effie Jane	105	27 25	MacKenzie, Maud	20	10 38
Margaret Margaret	81	21 02	MacKenzie, Georgia	105	54 50
MacDonald, Mary C	105	27 25	McCully, Mary	100	51 90 51 38
onaid Mary Jane	87	22 58	MacKenzie, Minnie	99 1 0 0	51 90
Acuonald, Mary Jessie	80	20 76 29 76	MacIntosh, Gertrude	100	51 90.
MacDonald Pater	86 105	36 38		100	51 90
MCDongall, Duncan	55	14 26	Macpherson, Margaret McCurdy, M Ruth	105	54 50
McGillyray, Angus J	100	25 95	MacInnes, Katherine	100	51 90
McInnis, Mary M MacIsaac, Mary J	100	25 95		105	54 50
MacIver, Lizzie	108	26 73	Reid, Alice C	103	58 46
Mackay. David	45	15 57	Young, Rena	43 100	22 32 38 92
"" "CN engie Katherine	105	27 25		105	40 87
Wackenzie Margaret	105	27 25	Archibald, Irene	100	38 92
***QUININON Mary Ann	100	25 95	Bradley, Annie E	105	40 87.
**LACLEAN Annie	87	22 58		105	40 87
Tuckellan Mary Agnes	105	27 25	Brenton, Ethel	105	40 87
AUCHBOO Nadia	69 105	17 90 27 25	Currie, Jennie	105	40 87
Leod Sarah	105	27 28	Colter, Susan D	105	40 87
MacMillan, Katherine MacMillan, Sadie N	77	19 98	Crowe, Susan A	105	40 87
McNeil, James	102		Crocker, Neille F	105	40 87
""LUNCII. Katia .l	100		Creelman, Agnes	105	40 87 38 92
"UVIAGh Karnardine	79	20 50) Dalrymple, Lucy	100	38 92
~~UIIO Mortha R	105	27 2	5 Davis, DG	100 36	14 00
Nicholson, Mary V	82	21 2	Eaton, Lucie	410	
<u>-</u> • •					

Fisk, Mabel	105	40 87	Marshall, Mary J	103	26 73
Grant, Etta W	105	40 87	Mattatall, Tottie	100	25 95
Gunn, Ida B	105	,	McEachren, Lydia	105	27 25
Gould, Libbie Hutchinson, Grace	50		McLeod, Jessie A	105	36 33
Hamilton, Janet	105 105		McLeod, Janie E	105	27 25
Johnson, Lizzie	. 75			105	27 25
Lightbody, Ina, B	81		o and a	105	36 33
Loughead. May E	25	9 78	- William	94	24 39
Lindsay, Olla M	98			104	26 99
Mellish, Mary	20			102	26 47
McKim, Tena M	85	33 08		105 99	27 25 34 25
McLeod, M Jean	100	38 92		30	94 20
McKim, Agnes	99	38 54		ESTER.	
McCurdy, Annie	104	40 48			
Patterson, Sara B Rogers, Sadie	92	35 81	Grooming, Milling	105	54 50
Reid, Emma C	104 87	40 48		105	54 50
Reid, Marian J	105	33 86 40 87		105	5 4 5 0
Taylor, Edith	40	15 56		105	54 50
Thompson, Mabel	100	38 92		105	54 50
Archibald, Leith P	95	24 65		105	54 50
Archibald, Alice	100	25 95		105	54 50
*Bales, Edwina	104	35 98	Thompson, Alice L	104 105	53 98 54 50
Crowe, Tressie M	105	27 25	Titus Chas G	95	49 30
Chisholm, Cynthia	105	27 25	Chisholm, Annie L	105	40 87
Cottle, Hanna L	44	11 42	Fuimore, Della M	103	40 09
*Gourley, Lizzie Graham, Ida M	100	34 60	Fulton, Edna N	105	40 87
*Graham, Saidie W	105	27 25	Fulton, Sarah J	104	40 48
Huntley, Edna	105 70	36 88	Fulton, Susie E	104	40 48
Hopkins, Effic	105	18 16 27 25	Hutchinson, Esther M	104	40 48
Higgins, Myrtle	66	17 12	Johnson, Alena Lawrence, H E	95	36 98
Kelly, Marion E	79	20 50	Morrison, Ida M	103	40 09 40 87
*Lynds, Bessie	103	35 64	Patterson. Collie	105 96	36 98
Morgan, Lizzie	99	2 5 69	Smith, Ada E	95	86 98
*McNutt, Bessie E	105	36 33	Smith, Marion	95	36 98
Murray, Martha B McCurdy, Mary	105	27 25	Smith, Margaret	105	40 87
*McCulloch, Janie	81	21 02	Totten, Bertha	105	40 87
"Nelson, Annie M	77 71	26 64	*Beckwith, Florence	105	36 35
muinerford, Ada	39	24 57 10 11	Berry, Ella M	102	26 47
Sibley, Florence	104	26 99	Boyd, Grace	105	27 25
Tays, Gertrude H	50	12 97	Craig, J Violet Fulton, Bertha O	105	27 25 2 7 25
*Wilson, Ada E	104	35 98	Fulton, Ethel	105	27 25
Amre			Graham, Jessie M	105 105	27 25
STIRLING.			*Huntley, Edna	5	1 78
Davidson, Lucretia F	90		Johnson, Edna C	99	25 69
Langille, Alberta	82 101	\$42 56 52 42	Patriquin, Bertha M	105	27 25
Mortimer, J Wallace	7	3 63	Schurman, Annie	103	26 73
Menzie, Harry	8	4 19	Starritt, Lucy G	88	22 84
Christie, Ida M	84	32 67	Urquhart, Jennie M *Wilson, Cassie	105	27 25
Clarke, Agnes A	105	40 85	Wilson, Zella P	. 88	80 45 26 99
Drysdale, Carrie M	105	40 87	Withrow, A G	104	27 25
Langille, Mabel A	105	40 87		105	21 20
Malcom, M Agnes	105	40 87			
McKay, A Olivia McLandress, Elizabeth	105	40 87	CUMBERLA	NT)	
Reid, E Edna	105	40 87		17 L).	
Ross, Sara (last term)	105 52	40 87 20 24	Astbury, John S	105	54 50
Saillie, Christina	105	27 25	Lay, E J	101	91 73
Dobson, Blanche M	101	26 21	McTavish, N D	56	43 56
Drysdale, Janet R	105	27 25	Robinson, Ernest	45	85 01
Ferguson, Maria J	105	27 25	Spinney, F H	101	91 73
Langille, Geo D	62	21 45	Stevens, Josephine H	104	80 97
Lynds, Bertha	105	27 25	Anderson, Pearl A Atkinson, Blanche	100	51 90 54 50
Matheson, Annie M	100	25 95	Baird, Elizabeth	105 8 6	44 64
•			,	00	7. V-

_					
Bigney, Anna	101	5242	Harrison, Kate B	90	35 0 3
Clarke, Harry G	101	52 42	Henley, Theressa	100	$38 \ 92$
Ok. Harry G					
Charman, Mary E	103	53 46	Hunter, Gussie	101	39 31
Conway, Isahella	101	5242	Hutchinson, M Grace	105	40 87
Cooper, Ina	100	51 90	Huston, Mary A	105	40 87
Diport, Illa				105	
D'Entremont. L A	101	52 42	Johnson, Lucy		40 87
FillOtt. Jane	101	52 42	Kennedy, Myrtle	105	40 87
Fitchett, Annie	105	54 50	Lindsay, Cora	101	39 31
Chell, Annie					
Sorgon Sadie J	101	$52\ 42$	Lindsay, Lizzie	101	
Hockin, Lavinia	101	52 42	Logan, Lou E	100	$38 \ 92$
Ravinia				105	40 87
Kent, Fannie	101	$52 \ 42$	Mattinson, Flora		
Lay, Jean	105	54 50	McDonald, Hilda	10 0 3	39 11
Lane To 1				60 -	$23\ 35$
Lent, F J	105	54 50	McIntosh, Elsie		
40ve. Rachal P	105	54 50	McIntosh, Jessie B	105	40 87
McDowell, Mabel L	101	52 42	McKenzie, Amelia H	105	40 87
Mar. Madel L				101	39 31
McKim, Mina	101	$52\ 42$	McVicar, J E		
MICK enzie Annie	101	5242	Mitchell, Annie	105	40 87
Mel and Man I		54 50		101	39 31
McLeod, Mary J	105		Mitchell, Jessie M		
AUCENOURA H' ()	101	52 42	Murdock, Jennie	103	40 09
Murray, Annie G	101	5242	Nelson, Nancy	105	40 87
Paul A Millie G					38 92
Paul, Carrie	20	10 38	O'Brien, Della	100	
* Oppord Ruth R	105	54 50	O'Brien, Margaret E	105	40 87
Purdy Dantha				101	39 31
Purdy, Bertha	81	42 04	Orr, Jane		
woney, Effic	101	52 42	Patton, Mary E	30	11 67
Ross, Isadore E	105	54 50	Peers, Sadie J	31	12.06
Shoppeling To T				105	40 87
Shorreliffe, D L	105	54 50	Porteous. Annie J		
"Oleiort Mandens	100	51 9 0	Portier, M A	105	40 87
Spencer, Mary	57	29 58	Roach, Lena	108	40 C9
Series, Mary		52 42		105	40 87
WILL Alice	101		Robertson, Annie M		
Webb, nattie	105	54 50	Ross, Ressie V	101	39 31
Archibald I	104	40 48	Ryan, Irene E	64	24 9l
Archibald, Josephine				105	40 87
MAIDSON Halan	105	40 87	Shipley, Mary		
Atkinson, Janie	102	39 70	Simpson, Susie	105	40 87
Reniment, gaine			Sproule, Lottie	49	19 06
Benjamin, May	105	40 87			
Sodio.	15	5 83	Sproule, Essie	105	40 87
Bigney, Bessie	105	40 87	sproule, Mabel	105	40 87
B. Dessie				101	39 31
COWNEIL Mamia A	101	39 31	Stewart, Helena		
	105	40 87	Stewart, Annie A	105	40 88
Brundage, Kate		39 81	Stiles, Edna	105	40 57
D. unuage, Kate	101				
Guldan Isahalla A	81	31 53	Thompson, Fannie I	99	38 47
Cameron History	105	40 87	Thompson, Ella M	105	40 87
Cameron, Hlanche					
Z***QUIDAN Mura	$97\frac{1}{2}$	37 95	Trenholm, Ruth R	101	39 31
	105	40 87	Trerice, S B	100	38 92
Clarke, A M	105	40 87	Trerice, Ruth	105	40 87
Claraci V M					
~ av. Madeline	101	39 31	Tuttle, Florence L	100	38 92
	101	39 31	Vance, S C	105	40 87
Colling Colling	105	40 87		105	27 25
Collins, Susie R			Baillie, Mary J		
	105	40.87	Baird, Alda C	104	26 99
	103	40 09	Baker, Leila V	104 1	27 12
	101	39 81		102	26 47
Crash meuriel E			Beebe, Gertrude B		27 25
	101	39 31	Bigney, Blanche	105	
	103	40 09	Boomer, Ethel M	20	5 18
De Mings, Emma		38 92	Poomer E Grace	71	18 42
Dench, Caroline S	100		Boomer, E Grace		
Dewar, Effic	101	39 31	Brown, Laura A	102	26 47
	101	39 31	Burns, Lillian A	105	27 25
Donkin, Gertrude Douglas, H G Elliott H G		40 87	*Rundon Inchal	12	4 15
This said, H G	105		*Burden, Isabel		
Eiliott, Ida W	98	38 15	Callighan, Minnie	73	18 94
Embree, Sara Fisher, Sara		39 81	Cameron, Maude S	101	26 21
Pieha- " Oara	101		Chamman Managant		
Fisher, Susie	105	40 87	Chapman, Margaret	101	26 2 1
	101	39 31	*Craig; Jean E	105	36 33
Fraser, Margaret Fullerton, Minnie A Gaotz Williamie			Davis, Reta T		
Garage Minnie A	105	40 87		105	27 25
Gaetz Wilhelmina	105	40 87	Dench, Susie	105	27 25
Graham, Addie R		31 14	Dickson, Winnifred	100	25 95
Grant, Lena	80		*Dixon, Elva M		36 33
Charle Lena	105	40 87	UIAUU, IZETW ME	105	
	100	38 92	Dobson, Lizzie	59	15 30
Grant, Margaret A			Gamble, Ruth	99	25 69
Good T	103	40 09	O. Jan Proles		27 25
Gnodwin, O M	105	40 87	Gordon, Evelyn	105	21 20
Harrison, Edna N	105	40 87	Graham, Addie R	24	6 22
and watte TA	100	40 01	,		

			ļ		
Grant, Anna	101	26 21	Munro, Albert M	101	39 31
Harrison, Maud M	98	25 43	Oxley, Annie	105	40 87
Henderson, Emma	104	26 99	Reid, Antoinette W	105	40 87
*Henderson, Janetta	53	18 33			39 70
Highet Classes	105		Ward, Cora B	102	00 62
Highet, Grace		27 25	Beaton, Mary E	$79\frac{1}{2}$	20 63
Hurd, Clara E	1041	27 12	Cameron, Mary	100	25 95
King, Bertha E	105	27 25	Davidson, Bertha	105	27 25
*Johnson, M Laura	76	26 30	Farrell, Annie	102	26 47
Johnson, Susanna W	105	$\frac{27}{25}$			27 25
	98		Fullerton, Eva L	105	27 25
Johnson, Edith		25 43	Gilbert, Pearl E	105	27 25
Jones, A W	105	27 25	Howard, Elizabeth	103	26 73
Lindsay, Susie	101	26 21	Johnson, Lulu H	104	26 9 9 °
Mattinson, Ivey	105	27 25	McMullan, Sadie	97	25 17
McDonald, Elah	104	26 99	Roberts, Minnie C		17 90
McEachren, Janie	105	27 25		69	27.05
			Robertson, Alice A	100	25 95
*McEachren, Margaret	104	35 98	*Salter, Vivien	821	28 54
McKay, Ida M	93	24 13	Slader, Sadie E	105	27 25
McLean, Parmela M	98	$25\ 43$	*Taylor, Eloa	121	4 32
*McManaman, Flossie	70	24 22	- 113 101, 23100	14.2	-
*Mills, Ardessia	105	36 33			
			 ,		
Mitchell, Jennie L	102	26 47			
Moreash, Georgie	58	1504	DIGBY.		
Nuttall, Mamie B	78	20 24			
*O'Brien, B M	105	36 33	Morton Puport F	TOE	\$95 87
Patton, Anna A	102		Morton, Rupert F	I05	35 81
*Dl. D. I		26 47	Bancroft, George R	69	30 01
*Purdy, Pearl	105	36 33	Banks, Wilford E	105	54 50
Quinn, Dora Mae	104	26.99	Belliveau, Catherine	105	54 50
Roach, Sophia	26	674	Comeau, J Willie	105	54 50
Roach, Bessie	105	27 25			54 50
*Pohontson Maramanita			D'Eon, Stillman L	105	52 42
*Robertson, Marguerite	105	36 33	Elliott, S E Primrose	101	22 40
Shipley, Lottie	105	27 25	Frost, Myrtle B	105	54 50
Simpson, Margaret	104	26.99	Hogg, Augusta A	105	54 50
*Slade, Almira	85	29 41	Hogg, Nathaniel W	105	81 75
Sproule, Lottie	56	14 52			54 50
			McGill, Dora P	105	54 50
Stromberg, Annie	103	26 73	McMurtery, Haidee P	I0 5	54.50
Sutherland, Katharine A	105	27 25	Messinger, Wm S	105	54 50
*Taylor, Elva M	14	4 85	Morse, Egbert P	105	54 50
Taylor, Florence	105	27 25	Pettit, Annie M	105	54 50
*Thompson, Jennie	105	36 33			54 50
Weir, Minnie	103		Pothier, Andre G	105	54 50
Wood Mann		26 73	Rice, Ina M	105	48 27
Wood, Mary	72	18 68	Sister Baptista Maria	93	48 27
Woodland, Hattie E	105	27 2 5	Sister M Alexius	105	54 50
Woodland, Minnie I	\$8	25 43	Stevens, Iva M	105	54 50
	-				54 50°
Parrsboro.			Turnbull, Bessie B	105	9 34
- MANGBORO,			Adams, Jennie M	24	24 13
Lucus Mallie D	100	22.50	Belliveau, Mathilda R	62	24 10
Lyons, Nellie B	103	66 82	Coggins, Agnes M	105	40 87
McDonald, J Crerar	108	98 55	Comeau, Charles B	98	38 16
Dyas, Katharine	103	53 46	Corkham, David A	5 5	21 41
Farrel!, Mary	100	51 90			40 87
	105	54 50	Deveau, Beatrice M	105	40 87
Glennie, Emma			Eaton, Lennie M	105	40 07
Lavers, Josephine	105	54 50	Gagnon, Alfred G	105	40 87
Litch, Holly	101	52 42	Goodwin, Emma M	94	36 98
Mortimer, J Wallace	45	23 35	Harris, Mabelle F	83	32 31
O'Mullon, Mary	102	52 94	Hiltz, Annie L		5 06-
Reid, Charles E	105	54 50	Hamis W.	13	40 87
Wolten Time			Harris, Whyna I	105	40 87
Walton, Lillian	103	53 46	Hines, Effie G	105	40 07
Ballantyne, Susan M	105	40 87	Hunt, G Edgar	105	40 87
Dickinson, Maude	103	40 09	Letteney. Edith P	105	40 87
Dorman, Alice	105	40 87	Lombard, Marie E		gg 31
Fraser, Reta M		33 08	Longwing D	101	40 87
	85		Longmire, Rosa T	105	40 87
Johnson, L J	105	40 87	Martel, Melinda	105	40 01
Kent, Lillian	19.	7 39	Matthews, Margaret S	101	39 81
Kerr, Minnie	104	40 48	Melancon, Rose A	105	40 87
Knowlton, A Gertrude	105	40 87	Musselle Mand- A	105	40 87
Lawrence, Jennie		39 70	Mussells, Maude A		32 69"
Laulchant Annia I	102		Sabean, Wm H	84	40 87
Lockhart, Annie J	105	40 87	Sister M Eugenie	105	40 87
McLean, Viola	104 1	40 67	Sister M Modesta	105	40 00
	~				

Sister M Lucine	105	40 87	GUYSBORG).	
Sister M Elise	100	38 92			
Sister M Virginia	100	38 92	Herdman, Wm W	105	\$95 37
Spore Feet M			Barss, Clementine	105	54 50
Snow, Etta M	105	40 87		105	54 50
Stevens, Eudora M	105	40 87	Cox, Bertlia C		
Teed, Genevra	104	40 48	Dillon, May E	103	58 46
Inioanit, Alma	103	40 09	Ellis, Russell	105	54 50
Intodeau. Beatrice	105	40 87	Ellis, Jeannie	105	54 50°
Trevoy, Archie H	$67\frac{1}{2}$	26 27	Giffin, Annie H	105	54 50 .
Trask, Leta H	103	40 09	Hill, Grace A	105	54 50·
Varner, Disa M	105	40 87	Kinley, Florence	105	54 50
Wolst C		25 30	Macdougall, Jean	105	54 50·
Walsh, Grace B	65			105	54 50
Whitman, Minnie C	100	38 92	Macdonald, Mary C		51 30
Woodbury, Reginald C	105	40 87	McGillivray, Amelia	99	
Dailey, Edna E	105	27 25	Madden, Annie E	105	54 58·
Daltzer, Lilla B	105	36 33	Robson, Norman	105	54 50
Odlizer, Nettie L	96₺	25 04	Atwater, Emina May	105	40 87
Belliveau, Antoinette	59	15 30	Davis, Hazel	94	36 59
Belliveer Teeries	95	24 65	Gerrard, Louise F	105	40 87
Belliveau, Leonice				105	40 87
Bourneuf, Emma	50	12 97	Hattie, Louisa A		
*Brooks, Grace D	100	34 60	Harrison, Alma	105	40 87
"Comean, Marie Rose	105	36 33	Kennedy, Mrs Daniel	95	36 98
UNNADOM ANNIA R	48	12 45	Kennedy, Annie	103	40 09
Cossahoom Clarissa I	105	36 33	McIntosh, Jessie M	103	40 09
Denton, E May	105	27 25	McMillan, Grace D	105	40 87
D'Eon, Theresa A	89	23 10	McPherson, Alex M	79	30 76
Deveau, Ann Lea	55	14 26	McPherson, John A	5	194
Doveau, Ann Lea	105	27 25	Smith, Isabella	77	29 96
Deveau, Louise		27 25	Shanahan, L J	105	40 87
Doucet, Nellie	105			105	40 87
Duncet Jos P	105	27 25	Walsh, Helen	48	12 45
POLV. Lytha M	83	21 54	Aikins, Howard Wm		
Arma Asur	105	$27\ 25$	Berrigan, Lila	105	27 25
VIER. Kestrice	82	21 28	*Boyd, Elfreda_	54	18 68
Durland, Bessie R	105	27 25	*Barss, Muriel J	68	23 53
Hainey, Mary C	105	27 25	Carrigan, Wilhelmina	105	27 25
*Homely, Mary C	703	24 39	Grant, Jennetta May	95	24 65
*Hamilton, Louis G		25 95	*Green, Elizabeth E	65	22 49
Hassett, Helena	100			83	21 54
Viora Albert (:	86	22 32	Hannifen, Maggie		27 25
- CISEV Laura R	67	17 38	Hurst, Essie A	105	
TAILE, JORIA A	105	27 25	Hines, Laura	59	15 30
SUBBON Rithel R	105	27 25	*Horton, Minnie	94	$32\ 52$
Kinney, Rowena J	105	27 25	Henry, Ethel M	105	27 25
Lamberton, Myrtle E	105	27 25	Jameson, Ona M	89	23 10
LeRlane A	105	27 25	Jameson, Roberta	105	27 25
LeBlanc, Anselm L	105	27 25	*Jones, M Eleanor	69	23 88
~~Quane wana a					14 26
	105	27 25	Jewers, Beatrice	55 105	27 25
GWIR . LOCALO AT	105	36 83	Kennedy, Lena C	105	
	86	22 32	Kennedy, Rose A	105	27 25
ORGINGIII Amelous A	85	$29 \ 41$	LeBlanc, Judith	94	24 39
	74	25 61	Morgan, Emma	105	27 25
	105	27 25	Martin, Mabel B	105	27 25
*Oakes Min.: 17	105	36 33	Mattatall, Florence	105	27 25
Oakes, Minnie V		27 25	*Macdonald, Mary J	79	27 34
	105			102	26 47
~ Yuliar Lizon A	105	27 25	McGrath, James J	47	12 19
	105	27 25	McKiel, Lauretta		
	85	22~06	*McLean, Katherine	105	36 33
	36	9 33	*Purcell, Nicholas T	86	29 76
	105	27 25	*Richards, Ida B	86	29 76
	38	9 85	Pose Marian	88	22 84
Simpson, Flora E		22 32	Cutherland, Gertrude J	104	26 99
Sprague 1	86		Sutherland, May Ethel	91	23 61
Sprague, Jennie E	105	36 38	Sullivan, Mrs Alfred	48	11 16
Taylor, Addie D	86	29 76	Sumvan, mie May		25 69
Taylor, Sophia M Thurber Bessie G	103	85 64	Simpson, Edna May	99	26 47
Thurber, Bessie G Wetmore, Flore F	105	27 25	Spanks, Elora J	102	
Wetmore, Flora E	104	26 99	Stewart, Laura	87	22 58
Young, Eliza R	81	21 02	Taylor, Mabel	105	27 25
	~-		Walsh, Rosalie M	105	27 25
Sister M Ursula	100	25 95		74	19 20
m Oraula	100	20 00	,	• -	

Worth, Josie L 7 20 50 White, Sarah C 105 27 25 27 25 25 25 25 2		54 50
Bruni, H D Brodie, I Brown, E R Berne, J Berne, J Cameron, E M Coeilia, Sister Chapman, Clara E 105 40 87 Cheman, Clara E 105 40 87 Cheman, Clara E 105 40 87 Cheman, Clara E 105 40 87 Chapman, E L C	105	04 00
Marshall, Lena H 105 854 50 Brodie, I Brown, E R Bruce, J Cameron, E M Cecilia, Sister Dechman, Clara E 105 40 87 Cameron, E M Cecilia, Sister Praser, Edward J O 86 33 47 Hartling, Nettie J 105 40 87 Chisholm, E A Hartling, Nettie J 105 40 87 Hartling Mabel E 105 40 87 Hartling Mabel E 105 40 87 Hartling, Marchall, Secorgina 105 40 87 McKenzie, Annie 85 33 68 McLellan, Jennie 105 40 87 McNaughton, D P 105 40	105	54 50
Brown, E R Bruce. J Cameron, E M Cecilia, Sister Chapman, Clara E 105 40 87 Chapman, E L Chap	105	54 50
Marshall, Lena H 105 \$54 50 Bent, Laura 105 40 87 Cameron. E M Cecilia, Sister Chapman, E L Chisholm, E A Creighton, I M Cecilia, Sister Chapman, E L Chisholm, E A Creighton, I M Cecilia, Sister Chapman, E L Chisholm, E A Creighton, I M Cunningham, A M Delahanty, K Dempsey, I B Dickie, S E Dickie, S E Dickie, S E Doloreta, Sister McKenzie, Annie 85 33 08 McLellan, Jennie 105 40 87 McKenzie, Annie 85 33 08 McLellan, Jennie 105 40 87 McKenzie, Annie 105 40 87 McCurdy, Jesnie 105 40 87 Eucharia, Sister Eucharia,	105	54 50 54 50
Bent, Laura Dickson, Margaret	105	54 50
Dickson, Margaret 105	105 105	54 50
Dechman, Clara E Fraser, Edward J O 86 33 47 Chisholm, E A	105	54 50
### Artling, Nettie J	105	54 50
Hartling Mabel E 105 40 87 Creighton, I M Hartling Mabel E 105 40 87 Hewitt, Martha 100 38 92 Delahanty, K Dempsey, I B Delahanty, K Dempsey, I B Johnson, Harriet J 98 38 15 Delahanty, K Dempsey, I B Johnson, Harriet J 98 38 15 Delahanty, K Dempsey, I B Dickie, S E Johnson, Harriet J 98 38 15 Delahanty, K Dempsey, I B Dickie, S E Johnson, Harriet J 98 38 15 Delahanty, K Dempsey, I B Dickie, S E Ernestine. Sister Dever, deviation, dever, dever, Sister Dever,	105	54 50
Hewitt, Martha	35	18 17
Hattie, John D	105	54 50
Johnson, Harriet J Jonkins, Georgina McKenzie, Annie 85 Jankins, Georgina McKenzie, Annie 85 33 08 McLellan, Jennie 105 McNaughton, D P 106 McNaughton, D P 107 McNaughton, D P 106 McNaughton, D P 107 McNaughton, D P 107 McNaughton, D P 108 McNaughton, D McNaughton, Me 100 McNaughton, D McNaughton, Me 100 McNaughton, D McNaughton, Me 100 McNaughton, Me 100 McNaughton, D McNaughton, Me 100 McNaughton, Me 100 McNaughton, M	105	54 50
Jenkins, Georgina	105	54 50 15 05
McKenzie, Annie McKenzie, Annie McLellan, Jennie McNaughton, D P Publicover, Jennie E Suttis, E Laura Secott, Katherine Cameron, Jessie M Cumming, Bessie M Cumming, Bessie M Cottle, Maud Haverstock, A M Haverstock, A M Haverstock, A M Haverstock, A M Hazle, E M Huggins, G M Kelly, J M Knickle, C E Laracy, L X Leontine, Sister MacCurdy, E R McCardy, E R Mc	29	54 50
McLellan, Jennie McNaughton, D P Publicover, Jennie E Suttis, E Laura Seott, Katherine Cameron, Jessie M Cumming, Bessie M Cumning, Bessie M Cumning, Margaret B Jackson, Annie F Jackson, Annie F Pye, Hannah (last term) Cumming, Melissa K (last term) 10 McGregor, Minnie HALIFAX. CITY. McKay, A McKay, A McKay, A McCarthy, J B Bigney, E M Bigney, E M Bigney, E M Bill, K F Aacdonald, E M Blook, C J Butter, G K Bummings, E Butter, G K Bummings, E Butter, G R Butter, G	105	54 50
McNaughton, D P Publicover, Jennie E 105 Suttis, E Laura Sectt, Katherine Cameron, Jessie M 106 Cumming, Bessie M 107 Cumming, Bessie M 108 Cumming, Margaret B 105 105 105 105 105 105 105 105 105 105	105 105	54 50
Publicover, Jennie E 105 40 87 Eucharia, Sister Florence, Sister Flowers, E M Seott, Katherine 105 26 85 Flowers, E M Cameron, Jessie M 105 27 25 Flowers, E M Cumming, Bessie M 100 25 95 Gaul, R E Genevieve, Sister Genet W I. *Cottle, Maud 62 21 45 Genevieve, Sister Genet W I. Hartling, Margaret B 105 26 33 Hartling, Margaret B 105 27 25 Hart, G M Haverstock, A M Haverstock, A M Haverstock, A M Haverstock, A M Hazle, E M Huggins, G M Kelly, J M Kelly, J M Knickle, C E Laracy, L X Leontine, Sister Margaret, Sister Siste	105	54 50
Stott, Katherine Cameron, Jessie M Coumming, Bessie M Coutle, Maud Scott, Manud Sco	105	54 50
Cameron, Jessie M	105	54 50
Cumming, Bessie M *Cottle, Maud *Cottle, Maud *Cottle, Maud *Cottle, Maud *Gunn, John S Hartling, Margaret B Jackson, Annie F Jos 27 25 McGillivray, Jessie Pye, Hannah (last term) 10 Cumming, Melissa K (last term) 10 McKay, A City. McKay, A McKay, A McKay, A McKay, A McCurdy, E Maschintosh S K Logan, J W McCarthy, J B Peters, F A Bigney, E M Hill, K F Macdonald, E M Butler, G K Mamings, E Jobherty, D P Dovaristus, Sister Massine, A B Nonckay, C Macking, E Mill, K F Macdonald, E M Butler, G K Mamings, E Jobherty, D P Marshall, G R Jobaria, Bister Maschintosh S K Jobherty, D P Marshall, G R Job 68 12 Sanders, K O Saunders, A C Shields, S W Sims, S A Spencer, E M Sullivan, Mme Theakston, H S F Tynan, J C	105	54 50
*Cottle, Maud *Gumn, John S 105	105	54 50
#Gunn, John S Hartling, Margaret B Jo5 Jackson, Annie F Jo3 McGregor, Minnie McGregor, Minnie McGillivray, Jessie Pye, Hannah (last term) Lumming, Melissa K (last term) 10 McKay, A Morton, S A Mackintosh, S K Joo McCarthy, J B Peters, F A Joo Joann, J W McCarthy, J B Joo McCarthy, J B Joo McCarthy, J B Joo McCarthy, J B Joo McLorthy, J B Joo McCurdy, E R McGregor, H Moseley, M I Murray, Mme Outhit, M C Phelan, F Phelan, M F Pius, Sister Rankine, A B Richardson, R Ross, E J Sanders, K O Saunders, A C Shields, E G Shields, S W Sims, S A Spencer, E M Sullivan, Mme Theakston, H S F Tynan, J C	105	54 50
Hartling, Margaret B Jackson, Annie F Jackson, Annie F Jackson, Annie F McGillyray, Jessie Pye, Hannah (last term) Cumming, Melissa K (last term) 10 McGullyray, Jessie HALIFAX. CITY. McKay, A Kennedy, W T Morton, S A Logan, J W McCarthy, J B Peters, F A Billi, K F Macdonald, E M Hill, K F Macdonald, E M House Sister Macdonald, E M Billis, II H Butler, G K Macking, E Doherty, D P Varistus, Sister Macking, E M Logar, P Velearn, P Commings, Sister Machinosh S R Log B B Comming, E Doherty, D P Varistus, Sister Margaret, Sister Machinosh, S R Log B B Comming, E Coherty, D P Varistus, Sister Margaret, Sister Machinosh, S R Log B B Comming, E Coherty, D P Varistus, Sister Margaret, Sister MacCurdy, E R McCurdy, E	100	51 90 54 50
Jackson, Annie F	105	54 50
McGregor, Minnie 105 27 25 Hazle, E M	105	54 50
McGillivray, Jessie 96 24 91 Huggins, G M	105 105	54 50
Pye, Hannah (last term) 10	105	54 50
Cumming, Melissa K (last term) 10 3 93 Knickle, C E Laracy, L X Leontine, Sister Margaret, Sister Margaret, Sister Margaret, Sister Marshall, L E Mason, N E M McCurdy, E R MocCarthy, J B	105	54 50
HALIFAX. CITY. McKay, A Kennedy, W T Morton, S A Loon, N E M McCurdy, E R Morton, S A Loon, N E M McCurdy, E R Moregor, H Moseley, M I Murray, Mme Outhit, M C Phelan, F Phelan, M F Pius, Sister Rankine, A B Richardson, R Ross, E D Ro	105	54 50
HALIFAX. CITY. McKay, A Kennedy, W T Morton, S A Mackintosh S K Logan, J W McCarthy, J B Citry, B Mill, K F Macdonald, E M Moseley, M I Moseley, M I Moseley, M I Morray, Mme Outhit, M C Phelan, F Phelan, M F Pius, Sister Rankine, A B Richardson, R Ross, E D Ross, E J Sanders, K O Saunders, A C Shields, E G Shields, E G Shields, S W Sims, S A Spencer, E M Coaria, Sister Macdon, N E Macdonald, L E Mason, N E M McCurdy, E R Moseley, M I Moseley, M I Morray, Mme Outhit, M C Phelan, M F Pius, Sister Rankine, A B Richardson, R Ross, E D Ross, E J Sanders, K O Saunders, A C Shields, S W Sims, S A Spencer, E M Coaria, Sister 100 77 85 Rosaria, Sister 100 77 85 Rosaria, Sister 100 77 85 Rosaria, Sister Tynan, J C Tynan, J C	105	54 50
Margaret, Sister Marshall, L E Mason, N E M McCurdy, E R Moorton, S A 100 77 85 Moorton, S A 100 57 85 Moorton, S A 100 51 90 Morton, S A 100 51 90 Moorton, S Moorton, Moor	105	54 50
McKay, A McKay, A MeCkay, A Meckay, A Moseley, M I Moseley, M I Moseley, M I Morray, Mme Outhit, M C	105	54 50 54 50
McKay, A Kennedy, W T Morton, S A Mackintosh S K Logan, J W McCarthy, J B Peters, F A Bigney, E M Hill, K F Macdonald, E M Blois, II H Butler, G K Cummings, E Doherty, D P Varistus, Sister Mason, N E M McCurdy, E R McGregor, H Moseley, M I Moseley, M I Murray, Mme Outhit, M C Phelan, F Phelan, F Phelan, M F Pius, Sister Rankine, A B Richardson, R Ross, E D Ross, E D Saunders, A C Saunders, A C Shields, E G Shields, S W Sims, S A Spencer, E M Sullivan, Mme Theakston, H S F Tynen, J C	105	54 50
McKay, A Kennedy, W T Morton, S A Mackintosh S K Logan, J W McCarthy, J B Peters, F A Bigney, E M Hill, K F Macdonald, E M Blois, II H Doberty, D P Evaristus, Sister Marshall, G R Polar B Rosaria, Sister Rosaria	105 105	54 50
McKay, A Kennedy, W T Morton, S A Mackintosh S K Logan, J W McCarthy, J B Peters, F A Bigney, E M Hill, K F Macdonald, E M Blois, II H Bother, G K Commings, E Doherty, D P Evaristus, Sister Marshall, G R Phess 105 105 105 105 105 105 105 1	105	54 50
Morton, S A Mackintosh S K Logan, J W McCarthy, J B Peters, F A Bigney, E M Macdonald, E M Biotis, 11 H Sutler, G K Commings, E Doherty, D P Evaristus, Sister Marshall, G R Cossire, Sister Cossire, Sister Cossire, Sister 100 100 100 100 100 100 100 1	68	35 2 9
Mackintosh S K Logan, J W McCarthy, J B Peters, F A Macdonald, E M Blois, 11 H Sutler, G K Commings, E Doherty, D P Svaristus, Sister Manley, C J Marshall, G R Cosarias, Sister Conthit, M C Couthit, M C Phelan, F Phelan, M F Pius, Sister Rankine, A B Richardson, R Ross, E J Sanders, K O Sanders, K O Shields, S W Sims, S A Spencer, E M Sullivan, Mme Theakston, H S F Tynan, J C	105	54 50
Logan, J W McCarthy, J B Peters, F A Macdonald, E M Blois, 11 H Sutler, G K Cummings, E Doherty, D P Svaristus, Sister Manley, C J Aarshall, G R Cosaria, Sister Couthit, M C Phelan, F Phelan, M F Pius, Sister Rankine, A B Richardson, R Ross, E D Saunders, A C Shields, S W Sims, S A Spencer, E M Sullivan, Mme Theakston, H S F Tynan, J C	105	54 50
McCarthy, J B Peters, F A 100 51 90 Bigney, E M 100 51 90 Hill, K F Macdonald, E M Blois, II H Butler, G K Cummings, E Doherty, D P Varistus, Sister Annley, C J Marshall, G R 105 68 12 Marshall, G R 106 81 77 Marshall, G R 107 78 85 Marshall, G R 108 77 85 Marshall, G R 109 77 85 Marshall, G R 100 77 85 Marshall, G R 100 77 85 Marshall, G R 100 77 85 Marshall, G R Mars	105	54 50 54 50
Peters, F A 100 51 90 Rights, Sister Rankine, A B 101 100 51 90 Rights, Sister Rankine, A B 101 100 38 92 Rights, Sister Rankine, A B Richardson, R Ross, E D Ross, E	105	54 50
Signey, E M 100 51 90 Rankine, A B Hill, K F 40 Rankine, A B Richardson, R Acadonald, E M 100 38 92 Ross, E D Blois, Il H 105 68 12 Ross, E J Sutler, G K 105 68 12 Sanders, K O Summings, E 105 68 12 Shields, E G Poherty, D P 105 68 12 Shields, S W Sanders, K O Saunders, A C Shields, E G Shields, S W Sims, S A Sms, S A Sanders, K O Sims, S A Spencer, E M Plearn, P 105 68 12 Spencer, E M Cosaria, Sister 100 77 85 Sullivan, Mme Trynan, J C Tynan, J C	105	54 50
Hill, K F 40 Richardson, R facdonald, E M 100 38 92 flois, 11 H 105 68 12 Ross, E D Ross, E D Sanders, K O Saunders, A C Shields, E G Shields, S W Sims, S A Spencer, E M Plearn, P 105 88 12 Hosaria, Sister 100 77 85 Hosaria, Sister </td <td>105</td> <td>54 50</td>	105	54 50
Ross, E D Ross, E D	105 105	54 50
Ross, E J Ross, E J Ross, E J Sanders, K O Sanders, K O Sanders, A C Sanders, Sanders, A C Sanders, A C Sanders, Sanders, Sanders, A C Sanders, Sanders, A C Sanders, Sanders, Sanders, A C Sanders, Sanders, Sanders, Sanders, Sanders, E G Sanders, Sanders	105	54 50
Johnstein 105 68 12 Saunders, A C Joherty, D P 105 68 12 Shields, E G Straistus, Sister 100 77 85 Shields, S W Johnstein 105 68 12 Sims, S A Johnstein 105 68 12 Spencer, E M Johnstein 105 81 75 Sullivan, Mme Johnstein 100 77 85 Tynan, J C Johnstein 105 68 12 Tynan, J C	105	54 50
Otherty, D P 105 68 12 Shields, E G Evaristus, Sister 100 77 85 Shields, S W 4anley, C J 105 68 12 Sims, S A Marshall, G R 105 68 12 Spencer, E M PHearn, P 105 81 75 Sullivan, Mme Rosaire, Sister 100 77 85 Tynan, J C Rosaire, Sister 105 68 12 Tynan, J C	105	54 50
Svaristus, Sister 100 77 85. Shields, S W Stanley, C J 105 68 12 Sims, S A Spencer, E M Sullivan, Mme VHearn, P 105 81 75 Stosaria, Sister 100 77 85 Rosaire, Sister 105 68 12 Tynan, J C Tynan, J C	105	54 50
fanley, C J 105 68 12 Sims, S A farshall, G R 105 68 12 Spencer, E M l'Hearn, P 105 81 75 Sullivan, Mme cosaria, Sister 100 77 85 Theakston, H S F cosaire, Sister 105 68 12 Tynan, J C	105	54 50
Hearn, P 105 81 75 Sullivan, Mme Cosaria, Sister 100 77 85 Theakston, H S F Cosaire, Sister 105 68 12 Tynan, J C	63	32 70 54 50
Rearn, P 105 8175 Sullivan, Mme Cosaria, Sister 100 77 85 Theakston, H S F Cosaire, Sister 105 68 12 Tynan, J C	105	54 50
Cosaria, Sister 100 77 85 Theakston, H S F Cosaire, Sister 105 68 12 Tynan, J C	105	54 50
Cosaire, Sister 105 68 12 Tynan, J C	105	54 50
	105	54 5U
100 68 12 Wakeley A C	105 105	54 50
ignes, Sister 105 54 50 Walsh, J L	105	54 50
105 54 50 Whalen, A T	105	54 5 0
ionzo, Sister , 105 54 50 Wiswell I M	105	54 50
morosia, Sister 105 54 50 Woolrich, M.E.	105	54 50
erennans, Sister 105 54 50 Ackhurst, M L	105	40 87 40 87
105 54 50 Ancient, F.S.	105	40 87
	105	40 87
cwden, I M 105 54 50 Bayer, A L	105	30

yer, H M	74	28 80	COUNTY.		
lois, E H	165	40 87	Magland Hugh P	10	
roadhurst, M E	105	40 87	MacLeod, Hugh R	10	7.7
utler, E R	105	40 87	Allen, Christina	105	54 5
therine, Sister	105	40 87	Archibald, Jean B	70	36 3
hristina, Sister	105	40 87	Bell, Mary F	103	55 4
larke, E M	105	40 87	Brooks, Ethel G	101	52 4
lement, Sister	105	40 87	Corkum, Ethel	105	54 5
Oncepta, Sister	105	40 87	Crowe, H Zilla	20	10 3
unningham, E S	105	40 87	Cruikshank, Jean H	105	54 5
urren. E. M	105	40 87	Demmons, Mona B	99	51.3
ePazzi, Sister	105	40 87	Eaton, Isabel J	103	53 4
Dhine. Sigter	105	40 87	Evans, Laura F	105	54 5
evine M R	105	40 87	Forbes, Addie K	93	48 2
elix, Siater	105	40 87	Frye, Beatrice	105	54 5
rierson. F	105	40 87	Gaetz, Ida M	103	53.4
rierson, M H	105	40 87	Hiltz, Ethel M	105	54 5
ualbert, Sister	105	40 87	Lynds, Lennie	70	36 3
amilton, H H	105	40 87	Miller, Florence M	103	53 4
artigan, Sister	105	40 87	Mumford, Elizabeth	923	48 (
ealy K E				103	53 4
enrice C F	105	40 87	MacCully, Eva	105 106	
enrion, C E	105	40 87	Prescott, Alice	105	54 5
mes, C A	105	40 87	Wisdom, Sadie		54 5
mieson, H J	105	40 87	Ahern, Mary	94	36 8
haptist, Sister	105	40 87	Archibald, Jean B	35	13 6
ohns, M A	105	40 87	Archibald, Jessie D	105	40 5
unnson, I.I	105	40 87	Auld, Maggie E	105	40 8
⁰⁸⁶ ph. Sister	105	40 87	Baker, Carrie	95	36 9
eirstead. M	105	40 87	Balcombe, Florence C	105	40 8
eliv. Mme	105	40 87	Barnstead, Winnifred G	96	37 8
ennady. M.C.	105	40 87	Brown, Gertrude L	62	24 1
CO. Nigter	105	40 87	Brown, Emma M	105	40 8
©Cadia Sigter	105	40 87	Butler, Mamie E	65	25 3
ukan. A	105	40 87	Cameron, Sadie E	105	40 8
yali. R H	105	40.97	Chisholm, Isabel	103	40 (
CArthur JR.	105	40 87	Clark, Janet G	98	38]
ULTROOP A	105	40 87	Clark, Ina Jane	100	38 9
Mrv. Sieter	105	40 87	Coleman, Hannah E	1041	40 €
utonell L. H. I	105	40 87	Conrad, Ethel M	95	36 9
looney, M E	105	40 87	Cook, Georgie E	105	40 8
UDnoghna MrTT	105	40 87	Cooke, Mary Logan	105	40 8
erpetua, Sister	105	40 87	Cox, Nellie	105	40 (
utnam, A F	105	40 87	Crockett, Eva F	105	40
Anhael Cirken	105	40 87	Dechman Elsie D	105	
aphael, Sister					40 8
emigius, Bro	105	40 87	DeVan, Eileen M	105	40
ita, Sister	105	40 87	Dickie, Gertrude	105	40
ockett, M M	105	40 87	Dickie, Lillie A	105	40
odriguez, Sister	105	40 87	Erskine, Jennie B	105	40 38
	55	21 41	Fahie, Annie M	99	-
Urarian D	105	40 87	Findlay, Sadie	103	
ullivan M	105	40 87	Flemming, Effie P	104	40
ullivan Miri	105	40 87	Fox, Jean C	105	40
ullivan M T D	105	40 87	Fraser, Annie Alice	102	39
468 katon Q T	105	40 87	Gallagher, Adelaide	105	40
	105	40 87	Gallagher, Mildred	105	40
GENERA AND	105	40 87	Gates, Lena M	105	40
YELFDAR AN III	105	40 87	Goodick, sedidah B	100	38
7 Bile ()	105	40 87	Graham, Myrtle	64	24
10 M alle	105	40 87	Guild, Jean	105	40
THIS RELEASE	105	40 87	Hall, Sarah M	105	40
ickson M E			Hamilton, Mary A	103	40
Arrones C **	105	27 25	Higgins, Emma A		
arroway, C M	40	10 38	Higgins, Margaret	105	40
ossip, C M	105	27 25	Homans, Estella M	105	40 40
emmott, M F	105	27 25	Homelis, Escorio de	105	
ucijonali Messa	105	27 25	Hume, Bessie Hume, Emma	103	40
	105		Hilliane, Camara	. 103	40
atrick, Bro	100		Hume, Florence	105	40

			1		
Laidlaw, Elizabeth	103	40 09	Manthorn, Jennie	105	27 25
Lynds, Lennie	33.	12 84	*Mosher, Ellen S	88	30 45
Moore, Jamesina	105	40 87	Munro, Mary E	80	20 76
Mosher, Annie R	105	40 87	*Murphy, Daniel P		23 35
McCabe, Pearle	105	40 87		671	27 25
	451	17 69	Murphy, Mary	105	25 48
McDonald, D W	105		Murray, Myrtle Jean	98	20 40
McFetridge, Emma J	20	40 87	Myra, Blanche	89	30 80
McHeffey, Mary E		7 78	*McGill, Frances	86	29 76
MacKay, Isabel	105	40 87	MacGillivray, Flora	95	24 65
McLean, Annie	$97\frac{1}{2}$	37.95	*McLeod, Gutha	$98^{\frac{1}{2}}$	$29\ 22$
McLean, Ivy	105	40 87	*McLeod, Jennie S	83	28.72
McKenzie, Margaret A	103	40 09	Nieforth, Mabel J	103	2673
MacMillan, Neil	105	40 87	Perry, Eva May	86	$22\ 32$
Nauss, Ola G	105	40.87	*Prest, Amelia C	97	33 56
O'Brien Margaret	1045	40 67	Reid, Mabel L	98	25 43
Ogilvie, Estey M	105	40 87	Richardson, Edith M	97	25 17
Osborne, Melissa	105	40 87	*Richardson, Marguerite		32 18
Pender, Anastatia M	103	40 09	*Roberts, Olive M	93	13 15
Reid, Mary H	105	40 87		38	29 07
Schultz, Sadie E	1041	40 67	*Skerry, Emma	84	29 07
	105		*Sargeant, Leon F	$89\frac{1}{2}$	30 97
Shute, Jessie T		40 87	Sibley, Harriet M	100	25 95
Smith, Anna M E	105	40 87	Sibley, Mattie A	105	27 25
Smith, Etna O	105	40 87	Spinney, Jennie M	104	20 94
Smith, Pearl M	103	40 09	Stoddard, Sabina B	101	26 21
Spencer, F L	96	37 37	Sullivan, Rose	100	25 95
Thomas, Bessie	105	40 87	Sutherland, Grace	103	26 73
Thompson, Roy M	100	38 92	Warner, Mary B	103	26.73
Thornton, Mary	105	40 87	Wells, William A	57	14 78
Turner, Rebecca E	105	40 87	Whitman, Grace	62	16 08
Wolfe, Hattie F	105	40 87	Yeadon, Ida M		27 25
Wallace, May D	103	40 09	readon, Ida M	105	21 -
Weir Amelia	89	34 64	i i		
	5 4 .	14 01	· · ·		
Balcombe, Lucy M			TT A NIMO		
Chisholm, Jessie L	105	27 25	HANTS.		
Clarke, Catherine B	98	25 43	,		
Collins, Pearl	105	27 25	WEST.		
Collins, Margaret	104	26 99			- 05
Cole, Alice J	105	$27\ 25$	Forbes, Antoinette	100	\$77 85
Corner, Anna R	94	24 39	Shields, W J	105	95 37
*Corner, Bessie B	105	36 33	Smith, J A	98	89 00
*Courtney, Mary	42	14 53	Bowlby, Florence M	105	54 50
*Courtney, Mary	67	23 18	Brennan, Maude A	105	54 50
Crook, Mabel S	105	27 25	Corkum, Clara A	105	5 4 50
Dauphinee, Elsie M	105	27 25	Crossley, Nellie B	104	58 98
Dauphinee, Lena C	105	27 25	Faulkner, Harriett C	105	54 50
*Ellis, Nina M	781	27 16	Hennesey, Margaret		52 42
Ferguson, Cora M	$98\frac{3}{2}$	25 56		101	51 90
Fisher, Adela	982	25 43	Lavers, Winifred	100	54 50
Foley, Ethel	105	27 25	McWilliam, Jessie	105	54 50
Fraser. Grace	105	27 25	Parker, Helen Gwendolyn	105	51 90
	105	27 25	Pearsons, Katie E	100	54 50
Gates, Plessa M	105	27 25	Rines, Maggie L	105	94 00
Gibbons, John	105		Scott, Agnes B	10 4	53 98
Grant, Edna G		27 25	White, Jennie M	100	51 90
*Greenough, Charlotte V	64	22 14	Bennett, Hanna	100	38 92
*Guild, Ethel G	105	36 33	Blois, Josephine C	105	40 87
Hall, Mabel Edna	104	26 99	Burgoyne, Naomi A	100	38 92
Hartling, Margaret D	101	26 21	Dimock, Annie A	100	38 92
Hawkins, Viola S	102	26 47	Foster, Arthur DeW	105	40 87
"Henderson, Anna M	5 7	19 72	Goudy, Emily F	100	38 92
*Henderson, Henrietta M	84	29 07	Graham, Julia M	105	40 87
Henry, Leah M	95	24 65	Harvey, Alice A		30 37
Higgins, Elsie G	105	27 25	Kelley, Minnie A	78	38 92
Higgins, Matilda J	105	27 25	King Alberts T	100	15 17
Horne, May E	105	27 25	King, Alberta J	39	39 81
Irvine, John T		13 49	King, Mildred E	101	32 69
Johnson, Elizabeth	52	25 43	Lewis, Sadie R	84	40 87
*I Trette P	98		Lynch, Jessie A	105	40 87
*Josey, Izetta B	99	34 25	*Mariette, Emma M	105	
Julien, Emma B	85	22 06	Macdougall, Edith M	55	21 41

		1			
cCurdy, Helen	100	38 92	Moreash, Isabel	103	40 0
diller, A Blanche	105	40 87	Morrison, Maggie M	98	38 1
uillett, Georgetta	105	40 87	Mosher, Idella P	104	40 4
icholson. E Marv	86	33 47	Sanford, Alida R	102	39.70
licholson, Mary Vance	104	40 48	Scott, Catherine M	105	40 8
FBrien, Ellen J	105	40 87	Simm, Ethalyn L	105	40 8
artridge. Ethel	102	39 70	Smith, Emmaroy M	105	40 8
veden, Alice B	105	40 87	Wallace, Ellen	105	40 8
Rines, Rossie A	105	40 87	Withrow, Mary	100	38 9
utherford, Willa J	100	38 92	Beazley, Abiguil	105	27 2 :
alter, Hattie M	94	35 59	*Bond, Bessie F	44	15 2
cott, Annie	105	40 87	*Bowes, Willetta J	105	36 3
exton, Verna K	105	40 87	Cameron, Alberta	103	26 7
haw, Sarah E	105	40 87	Card, Mary E	105	27.2
mith, Melicent R	83	32 81	Embree, Janie E	105	27 2
tevens, Martha R	105	40 87	*Etter, A Gordon	77	26 6
Vien A		40 28	Faulkner, Nina Ethel	105	27 2
Vier, Annie G	1031			105	$\frac{27}{27}$ 2
oung, Etta L	105	40 87	Greenough, Jennie		
ochrane, Madge I	105	27 25	Higgens, Josephine	105	27 2
DeWolfe, Flora M	65	22 49	Horne, Lillie A	105	27 2
olev. Ethel M	105	27 25	Kavanagh, Cecilia A	89	23 1
Olev. M. Evelyn	105	27 25	Logan, Jessie M	$97\frac{1}{2}$	25 3
DONGhton Mary ()	65	22 49	McCurdy, Lillie A	105	27.2
onnstone. Annabell	103	35 64	McMann, Carrie	$97\frac{1}{2}$	25 3
Ulles, Estella	105	27 25	*Mason, Sarah J	94	32 5
Lantz, Mabel E	105	36 33	*Matheson, Ivy I	86	29
aws, Lillian F	994	25 82	Moore, Jennie	105	27 9
Long, Gertrude	33	11 42	*O'Brien,Janie L	105	36 3
unn, Ethel M	103	26 73	Parker, Laura B D	44	114
cKenzie, Florence H	105	27 25	Pratt, Lena H	86	22 3
organization in the state of th	105	27 25	Schwartz, Frances I	96	
orse, Evelyn	105	27 25	Shaw, Mildred	105	36 3
imm, Ada A		11 08	Smith, Ida L	105	36 3
Underwood, Janie	32		Ginitin, Ida is	100	00 1
Vithrow. Ethel A	105	27 25	Assistant.		
Vanghan Alica G	105	36 33	21 8818L011L _a		
Vaughan, Alice G	100	0000			
EAST HANTS.		00 00	Gray, Bessie C A	100	17 3
EAST HANTS.		54 50	· · · · · · · · · · · · · · · · · · ·	1 0 0	17 :
EAST HANTS. Shute, Clyde C ottle, Pauline D			· · · · · · · · · · · · · · · · · · ·	100	17
EAST HANTS. Shute, Clyde C ottle, Pauline D	105	54 50	Gray, Bessie C A	100	17 :
EAST HANTS. hute, Clyde C ottle, Pauline D rowe, Janetta	105 105 105	54 50 54 50	· · · · · · · · · · · · · · · · · · ·	100	17 :
EAST HANTS. Shute, Clyde C ottle, Pauline D krowe, Janetta Jenry, Fila K	105 105 105 88	54 50 54 50 54 50 45 68	Gray, Bessie C A INVERNESS.	100	17 :
EAST HANTS. Chute, Clyde C Cottle, Pauline D Towe, Janetta Lenry, Ella K Lolesworth Mahel C	105 105 105 88 90	54 50 54 50 54 50 45 68 46 71	Gray, Bessie C A	100	17 :
EAST HANTS. Chute, Clyde C Cottle, Pauline D rowe, Janetta Henry, Ella K Lolesworth, Mabel C Caclennan, Florence B	105 105 105 88 90 105	54 50 54 50 54 50 45 68 46 71 54 50	Gray, Bessie C A INVERNESS, SOUTH,		
EAST HANTS. Chute, Clyde C Cottle, Pauline D rowe, Janetta Ienry, Ella K Lolesworth, Mabel C LacLennan, Florence B LacLennan, Janie	105 105 105 88 90 105 105	54 50 54 50 54 50 45 68 46 71 54 50 54 50	Gray, Bessie C A INVERNESS, SOUTH, Smith, E B	105	\$95
Chute, Clyde C Cottle, Pauline D rowe, Janetta Ienry, Ella K Lolesworth, Mabel C dacLennan, Florence B dacLennan, Janie de Nutt Appie	105 105 105 88 90 105 105	54 50 54 50 54 50 45 68 46 71 54 50 54 50 29 58	Gray, Bessie C A INVERNESS, SOUTH. Smith, E B Chisholm, Duncan	105 60	\$95 31
hute, Clyde C ottle, Pauline D rowe, Janetta lenry, Ella K Iolesworth, Mabel C IacLennan, Florence B IacLennan, Janie IcNutt, Annie	105 105 105 88 90 105 105 57 20	54 50 54 50 54 50 45 68 46 71 54 50 54 50 29 58 10 38	Gray, Bessie C A INVERNESS. SOUTH. Smith, E B Chisholm, Duncan Creelman, Laura M	105 60 105	\$95 31 54
hute, Clyde C ottle, Pauline D rowe, Janetta lenry, Ella K Iolesworth, Mabel C IacLennan, Florence B IacLennan, Janie ieNutt, Annie Jarchant, Laura L PBrien, Clara	105 105 105 88 90 105 105 20	54 50 54 50 54 50 45 68 46 71 54 50 54 50 29 58 10 38 54 50	Gray, Bessie C A INVERNESS, SOUTH, Smith, E B Chisholm, Duncan Creelman, Laura M Fraser, Susie	105 60 105 1 05	\$95 31 54 54
EAST HANTS. hute, Clyde C ottle, Pauline D rowe, Janetta lenry, Ella K lolesworth, Mabel C lacLennan, Florence B lacLennan, Janie leNutt, Annie larchant, Laura L Brien, Clara Brien, Creta	105 105 105 88 90 105 105 57 20 105	54 50 54 50 54 50 45 68 46 71 54 50 54 50 29 58 10 38 54 50 54 50	Gray, Bessie C A INVERNESS. SOUTH. Smith, E B Chisholm, Duncan Creelman, Laura M Fraser, Susie McDougall, Jessie A	105 60 105 105 105	\$95 81 54 54
hute, Clyde C ottle, Pauline D rowe, Janetta lenry, Ella K lolesworth, Mabel C lacLennan, Florence B lacLennan, Janie leNutt, Annie larchant, Laura L 'Brien, Clara 'Brien, Greta	105 105 105 88 90 105 105 20 105 105 105	54 50 54 50 54 50 45 68 46 71 54 50 29 58 10 38 54 50 14 53	Gray, Bessie C A INVERNESS. SOUTH. Smith, E B Chisholm, Duncan Creelman, Laura M Fraser, Susie	105 60 105 105 105	\$95 31 54 54 54 54
EAST HANTS. Shute, Clyde C ottle, Pauline D rowe, Janetta Ienry, Ella K Iolesworth, Mabel C IacLennan, Florence B IacLennan, Janie IcNutt, Annie Iarchant, Laura L Brien, Clara 'Brien, Greta 'Brien, Laura J arker, Ethel E	105 105 88 90 105 105 20 105 105 28 105	54 50 54 50 54 50 45 68 46 71 54 50 29 58 10 38 54 50 14 53 54 50	Gray, Bessie C A INVERNESS. SOUTH. Smith, E B Chisholm, Duncan Creelman, Laura M Fraser, Susie McDougall, Jessie A	105 60 105 105 105 105	\$95 31 54 54 54 54
hute, Clyde C ottle, Pauline D rowe, Janetta lenry, Ella K lolesworth, Mabel C lacLennan, Florence B lacLennan, Janie lenvutt, Annie larchant, Laura L Brien, Clara Brien, Greta Brien, Greta Brien, Floretta M dams, Floretta M	105 105 105 88 90 105 105 20 105 105 105	54 50 54 50 54 50 45 68 46 71 54 50 29 58 10 38 54 50 14 53	Gray, Bessie C A INVERNESS. SOUTH. Smith, E B Chisholm, Duncan Creelman, Laura M Fraser, Susie McDougall, Jessie A MacMaster, Annie J Munro, Fthel M Murray, Mildred	105 60 105 105 105 105 105 105	\$95 31 54 54 54 54 54
hute, Clyde C ottle, Pauline D rowe, Janetta lenry, Ella K Iolesworth, Mabel C IacLennan, Florence B IacLennan, Janie IeNutt, Annie Iarchant, Laura L Brien, Clara Brien, Greta Brien, Greta Brien, Laura J Sarker, Ethel E Idams, Floretta M Ilake, Elizabeth A	105 105 88 90 105 105 20 105 105 28 105	54 50 54 50 54 50 45 68 46 71 54 50 29 58 10 38 54 50 14 53 54 50	Gray, Bessie C A INVERNESS. SOUTH. Smith, E B Chisholm, Duncan Creelman, Laura M Fraser, Susie McDougall, Jessie A MacMaster, Annie J Munro, Fthel M Murray, Mildred	105 60 105 105 105 105 105 103	\$95 31 54 54 54 54 54 53
hute, Clyde C ottle, Pauline D rowe, Janetta lenry, Ella K lolesworth, Mabel C lacLennan, Florence B lacLennan, Janie leNutt, Annie larchant, Laura L l'Brien, Clara l'Brien, Greta l'Brien, Laura J arker, Ethel E dams, Floretta M llake, Elizabeth A lradshaw H Medge	105 105 88 90 105 105 105 20 105 105 105 30	54 50 54 50 54 50 45 68 46 71 54 50 54 50 54 50 54 50 54 50 11 63 54 50 11 67 40 87	Gray, Bessie C A INVERNESS. SOUTH. Smith, E B Chisholm, Duncan Creelman, Laura M Fraser, Susie McDougall, Jessie A MacMaster, Annie J Munro, Fthel M Murray, Mildred Sr St Mary of the Ascension	105 60 105 105 105 105 105 103 14 37	\$95 31 54 54 54 54 54 54
hute, Clyde C ottle, Pauline D rowe, Janetta Ienry, Ella K Iolesworth, Mabel C IacLennan, Florence B IacLennan, Janie Ienvutt, Annie Iarchant, Laura L Brien, Clara 'Brien, Greta 'Brien, Laura J arker, Ethel E Idams, Floretta M Ilake, Elizabeth A iradshaw, H Madge	105 105 105 88 90 105 105 57 20 105 105 28 105 30 105	54 50 54 50 54 50 45 68 46 71 54 50 54 50 29 58 10 38 54 50 11 63 54 50 11 63 40 87 40 87	Gray, Bessie C A INVERNESS, SOUTH, Smith, E B Chisholm, Duncan Creelman, Laura M Fraser, Susie McDougall, Jessie A MacMaster, Annie J Munro, Fthel M Murray, Mildred Sr St Mary of the Ascension Calder, John A	105 60 105 105 105 105 105 103 14 37 93	\$95 31 54 54 54 54 54 54
hute, Clyde C ottle, Pauline D rowe, Janetta lenry, Ella K Lolesworth, Mabel C lacLennan, Florence B lacLennan, Janie lenutt, Annie larchant, Laura L Brien, Clara Brien, Greta Brien, Greta Brien, Eathel E dams, Floretta M llake, Elizabeth A radshaw, H Madge lampbell, Lena B	105 105 88 90 105 105 57 20 105 105 28 105 30 165 105	54 50 54 50 54 50 45 68 46 71 54 50 29 58 10 38 54 50 11 53 54 50 11 67 40 87 40 87	Gray, Bessie C A INVERNESS. SOUTH. Smith, E B Chisholm, Duncan Creelman, Laura M Fraser, Susie McDougall, Jessie A MacMaster, Annie J Munro, Fthel M Murray, Mildred Sr St Mary of the Ascension Calder, John A Finn, Violet A C	105 60 105 105 105 105 105 103 14 37	\$95 31 54 54 54 54 54 54 54 54
hute, Clyde C ottle, Pauline D rowe, Janetta lenry, Ella K Iolesworth, Mabel C IacLennan, Florence B IacLennan, Janie IcNutt, Annie Iarchant, Laura L 'Brien, Clara 'Brien, Greta 'Brien, Greta 'Brien, Haura J 'arker, Ethel E Idams, Floretta M Ilake, Elizabeth A Iradshaw, H Madge Iox, Jane R Iox, Jane R Iok, Jane R Iok	105 105 88 90 105 105 105 20 105 28 105 30 165 105 105	54 50 54 50 54 50 45 68 46 70 54 50 29 58 10 38 54 50 11 67 40 87 40 87 40 87	Gray, Bessie C A INVERNESS. SOUTH. Smith, E B Chisholm, Duncan Creelman, Laura M Fraser, Susie McDougall, Jessie A MacMaster, Annie J Munro, Fthel M Murray, Mildred Sr St Mary of the Ascension Calder, John A Finn, Violet A C Macdonald, Angus L	105 60 105 105 105 105 105 103 14 37 93 105	\$95 31 54 54 54 54 54 54 54 54 54 54 54 54 54
hute, Clyde C ottle, Pauline D rowe, Janetta lenry, Ella K Iolesworth, Mabel C IacLennan, Florence B IacLennan, Janie IcNutt, Annie Iarchant, Laura L 'Brien, Clara 'Brien, Greta 'Brien, Greta 'Brien, Haura J 'arker, Ethel E Idams, Floretta M Ilake, Elizabeth A Iradshaw, H Madge Iox, Jane R Iox, Jane R Iok, Jane R Iok	105 105 105 88 90 105 105 57 20 105 105 30 105 105 105	54 50 54 50 54 50 45 68 46 71 54 50 29 58 10 38 54 50 11 67 40 87 40 87 40 87 40 87 40 87	Gray, Bessie C A INVERNESS, SOUTH. Smith, E B Chisholm, Duncan Creelman, Laura M Fraser, Susie McDougall, Jessie A MacMaster, Annie J Munro, Fthel M Murray, Mildred Sr St Mary of the Ascension Calder, John A Finn, Violet A C Macdonald, Angus L Macdonald, Mary A	105 60 105 105 105 105 103 14 37 93 105 105	\$95 31 54 54 54 54 53 7 14 36 40
hute, Clyde C ottle, Pauline D rowe, Janetta lenry, Ella K Iolesworth, Mabel C IacLennan, Florence B IacLennan, Janie ieNutt, Annie Iarchant, Laura L Brien, Clara Brien, Greta Brien, Greta Brien, Laura J arker, Ethel E dams, Floretta M Blake, Elizabeth A Bradshaw, H Madge ampbell, Lena B ox, Jane R Coley, Minnie G W Iamilton, Mildred	105 105 105 88 90 105 105 57 20 105 105 30 165 105 105 105	54 50 54 50 54 50 45 68 46 71 54 50 54 50 54 50 14 53 54 50 11 67 40 87 40 87 40 87 40 87 40 87	Gray, Bessie C A INVERNESS, SOUTH, Smith, E B Chisholm, Duncan Creelman, Laura M Fraser, Susie McDougall, Jessie A MacMaster, Annie J Munro, Fthel M Murray, Mildred Sr St Mary of the Ascension Calder, John A Finn, Violet A C Macdonald, Angus L Macdonald, Mary A McIsaac, Mary A	105 60 105 105 105 105 103 14 37 93 105 105	\$95 31 54 54 54 54 54 54 54 54 54 54 54 54 54
Chute, Clyde C Cottle, Pauline D rowe, Janetta Ienry, Ella K Lolesworth, Mabel C LacLennan, Florence B LacLennan, Florence B LacLennan, Janie LacLennan, Janie LacLennan, Laura L Brien, Clara Brien, Clara Brien, Clara Brien, Laura J Carker, Ethel E Ladams, Floretta M Blake, Elizabeth A Bradshaw, H Madge Lampbell, Lena B Lox, Jane R Coley, Minnie G W Lamilton, Mildred Laryey, Arghelle, F	105 105 88 90 105 105 57 20 105 105 105 105 105 105 105 105	54 50 54 50 54 50 45 68 46 71 54 50 54 50 29 58 10 38 54 50 11 63 40 87 40 87	Gray, Bessie C A INVERNESS, SOUTH, Smith, E B Chisholm, Duncan Creelman, Laura M Fraser, Susie McDougall, Jessie A MacMaster, Annie J Munro, Fthel M Murray, Mildred Sr St Mary of the Ascension Calder, John A Finn, Violet A C Macdonald, Angus L Macdonald, Mary A McIsaac, Mary A McKenzie, Christina	105 60 105 105 105 105 103 14 37 93 105 105 105 76	\$95 31 54 54 54 54 54 54 54 54 54 54 54 54 54
chute, Clyde C cottle, Pauline D rowe, Janetta Ienry, Ella K Iolesworth, Mabel C IacLennan, Florence B IacLennan, Janie IcNutt, Annie Iarchant, Laura L Brien, Clara Brien, Greta Brien, Greta Brien, Ethel E Idams, Floretta M Ilake, Elizabeth A Bradshaw, H Madge Isampbell, Lena B Iox, Jane R Ioley, Minnie G W Iamilton, Mildred Iarvey, Arabella E Iowes Lena	105 105 88 90 105 105 57 20 105 105 105 105 105 105 105 105 105 10	54 50 54 50 54 50 45 68 46 71 54 50 29 58 10 38 54 50 11 67 40 87 40 87 40 87 40 48 40 48 40 48 40 48	Gray, Bessie C A INVERNESS. SOUTH. Smith, E B Chisholm, Duncan Creelman, Laura M Fraser, Susie McDougall, Jessie A MacMaster, Annie J Munro, Fthel M Murray, Mildred Sr St Mary of the Ascension Calder, John A Finn, Violet A C Macdonald, Angus L Macdonald, Angus L Macdonald, Mary A McIsaac, Mary A McKenzie, Christina MacMillan, Gordon	105 60 105 105 105 105 103 14 37 93 105 105 105	\$95 31 54 54 54 54 63 40 40 40 29
chute, Clyde C cottle, Pauline D crowe, Janetta Henry, Ella K Holesworth, Mabel C HacLennan, Florence B HacLennan, Janie Henvit, Annie Harchant, Laura L Brien, Clara Brien, Greta Brien, Greta Brien, Haura J Carker, Ethel E Hadams, Floretta M Blake, Elizabeth A Bradshaw, H Madge Hamilton, Mildred Harwiton, Mildred Harwey, Arabella E Lewis, Lena Lottle Ada C	105 105 88 90 105 105 57 20 105 105 105 105 105 105 105 104 105 104 101	54 50 54 50 54 50 45 68 46 71 54 50 29 58 10 38 54 50 11 67 40 87 40 87 40 48 40 48 40 48 39 70	INVERNESS. SOUTH. Smith, E B Chisholm, Duncan Creelman, Laura M Fraser, Susie McDougall, Jessie A MacMaster, Annie J Munro, Fthel M Murray, Mildred Sr St Mary of the Ascension Calder, John A Finn, Violet A C Macdonald, Mary A McIsaac, Mary A McIsaac, Mary A McKenzie, Christina MacMillan, Gordon MacQueen, Katherine	105 60 105 105 105 105 103 14 37 93 105 105 95 76 104 97	\$95 31 54 54 54 54 53 7 14 36 40 36 29 40
chute, Clyde C cottle, Pauline D rowe, Janetta Ienry, Ella K Iolesworth, Mabel C IacLennan, Florence B IacLennan, Janie IacLennan, Janie Iarchant, Laura L Brien, Clara Brien, Clara Brien, Greta Brien, Laura J Carker, Ethel E Adams, Floretta M Blake, Elizabeth A Bradshaw, H Madge Jampbell, Lena B Jox, Jane R Joley, Minnie G W Iamilton, Mildred Iarvey, Arabella E ewis, Lena joittle, Ada C edittle Flore	105 105 105 88 90 105 105 20 105 105 105 105 105 105 105 105 104 105 101 104 105 101	54 50 54 50 54 50 45 68 46 71 54 50 29 58 10 38 54 50 11 67 40 87 40 87 40 87 40 48 40 48 40 48	INVERNESS, SOUTH, Smith, E B Chisholm, Duncan Creelman, Laura M Fraser, Susie McDougall, Jessie A MacMaster, Annie J Munro, Fthel M Murray, Mildred Sr St Mary of the Ascension Calder, John A Finn, Violet A C Macdonald, Angus L Macdonald, Angus L Macdonald, Mary A McIsaac, Mary A McKenzie, Christina MacMillan, Gordon MacQueon, Katherine O'Rrien, Rufus B	105 60 105 105 105 105 105 103 14 37 93 105 105 95 76 104 97	\$95 31 54 54 54 53 7 14 36 40 40 36 29 40 37 37
Chute, Clyde C Cottle, Pauline D rowe, Janetta Ienry, Ella K Lolesworth, Mabel C dacLennan, Florence B MacLennan, Florence B MacLennan, Janie Marchant, Laura L PBrien, Clara PBrien, Clara PBrien, Laura J Parker, Ethel E Mandams, Floretta M Blake, Elizabeth A Bradshaw, H Madge Jampbell, Lena B Ox, Jane R Coley, Minnie G W Mamilton, Mildred Marvey, Arabella E Lewis, Lena Little, Ada C Little, Flora Oomer Centrude M	105 105 88 90 105 105 57 20 105 105 105 105 105 105 105 104 105 104 101	54 50 54 50 54 50 45 68 46 71 54 50 29 58 10 38 54 50 11 67 40 87 40 87 40 48 40 48 40 48 39 70	INVERNESS, SOUTH, Smith, E B Chisholm, Duncan Creelman, Laura M Fraser, Susie McDougall, Jessie A MacMaster, Annie J Munro, Fthel M Murray, Mildred Sr St Mary of the Ascension Calder, John A Finn, Violet A C Macdonald, Angus L Macdonald, Angus L Macdonald, Mary A McIsaac, Mary A McKenzie, Christina MacMillan, Gordon MacQueon, Katherine O'Rrien, Rufus B	105 60 105 105 105 105 103 14 37 93 105 105 105 104 97 76	\$95 31 54 54 54 53 7 14 36 40 40 40 37 30 7
chute, Clyde C cottle, Pauline D crowe, Janetta Inry, Ella K Iolesworth, Mabel C IacLennan, Florence B IacLennan, Florence B IacLennan, Janie IacLennan, Janie IacLennan, Clara Brien, Clara PBrien, Clara PBrien, Greta PBrien, Greta PBrien, Haura J Inrec, Ethel E Idams, Floretta M Iske, Elizabeth A Bradshaw, H Madge Ismpbell, Lena B Iox, Jane R Toley, Minnie G W Iamilton, Mildred Iarvey, Arabella E Lewis, Lena Little, Ada C Little, Flora Invent M Idadonald Lenge A Invent M Idadonald Lenge A	105 105 105 88 90 105 105 20 105 105 105 105 105 105 105 105 104 105 101 104 105 101	54 50 54 50 54 50 54 50 54 50 54 50 54 50 10 38 54 50 11 63 54 50 11 63 40 87 40 87	INVERNESS. SOUTH. Smith, E B Chisholm, Duncan Creelman, Laura M Fraser, Susie McDougall, Jessie A MacMaster, Annie J Munro, Fthel M Murray, Mildred Sr St Mary of the Ascension Calder, John A Finn, Violet A C Macdonald, Angus L Macdonald, Mary A McIsaac, Mary A McIsaac, Mary A McKenzie, Christina MacMillan, Gordon MacQueen, Katherine O'Brien, Rufus B Quigley, Mary E Rose, Lily	105 60 105 105 105 105 105 103 14 37 93 105 105 95 76 104 97	\$95 31 54 54 54 53 7 14 36 40 37 30 7 7 8
chute, Clyde C cottle, Pauline D crowe, Janetta Ienry, Ella K Iolesworth, Mabel C IacLennan, Florence B IacLennan, Janie Ienvit, Annie Ienvit, Annie Ienvit, Annie Ienvit, Clara PBrien, Clara PBrien, Greta PBrien, Greta PBrien, Laura J Tarker, Ethel E Idams, Floretta M Ilake, Elizabeth A Iradshaw, H Madge Iens Iony, Jane R Ioley, Minnie G W Iamilton, Mildred Iarvey, Arabella E Iewis, Lena Ittle, Flora Ionwer, Gertrude M Idacdonald, Laura A IoDourall Loura A IoDourall Loura I	105 105 88 90 105 105 57 20 105 105 105 105 105 105 105 104 105 101 104 102 104 105 101	54 50 54 50 54 50 45 68 46 71 54 50 29 58 10 38 54 50 11 63 40 87 40 87	INVERNESS. SOUTH. Smith, E B Chisholm, Duncan Creelman, Laura M Fraser, Susie McDougall, Jessie A MacMaster, Annie J Munro, Fthel M Murray, Mildred Sr St Mary of the Ascension Calder, John A Finn, Violet A C Macdonald, Mary A McIsaac, Mary A McIsaac, Mary A McIsaac, Mary A McKenzie, Christina MacMillan, Gordon MacQueen, Katherine O'Brien, Rufus B Quigley, Mary E Rose, Lily Ross, Maggie	105 60 105 105 105 105 103 14 37 93 105 105 105 104 97 76	\$95 31 54 54 54 53 7 14 36 40 37 30 7 7 8
Chute, Clyde C Jottle, Pauline D Jorder, Janetta Jenry, Ella K Jolesworth, Mabel C JacLennan, Florence B JacLennan, Janie McNutt, Annie Marchant, Laura L JBrien, Clara JBrien, Greta JBrien, Laura J Jarker, Ethel E Jaker, Ethel E Jaker, Elizabeth A Jradshaw, H Madge Jampbell, Lena B Jox, Jane R Joley, Minnie G W Jamilton, Mildred Jarvey, Arabella E Jewis, Lena Little, Ada C Little, Flora Loomer, Gertrude M Jacolnald, Laura A McDougall, Lorine J JMcCulloch H Gertrude	105 105 88 90 105 105 57 20 105 105 105 105 105 105 105 104 104 102 104 105 101 104	54 50 54 50 54 50 45 68 46 71 54 50 29 58 10 38 54 50 11 67 40 87 40 87 40 87 40 48 40 48 39 70 40 48 40 48 39 70 40 48 40 87 40 87 40 87 40 87 40 87 40 87 40 87 40 87 40 87 40 88 40 87 40 88 40 87 40 88 40 80 40 80	INVERNESS. SOUTH. Smith, E B Chisholm, Duncan Creelman, Laura M Fraser, Susie McDougall, Jessie A MacMaster, Annie J Munro, Fthel M Murray, Mildred Sr St Mary of the Ascension Calder, John A Finn, Violet A C Macdonald, Mary A McIsaac, Mary A McIsaac, Mary A McIsaac, Mary A McKenzie, Christina MacMillan, Gordon MacQueen, Katherine O'Brien, Rufus B Quigley, Mary E Rose, Lily Ross, Maggie	105 60 105 105 105 105 103 14 37 93 105 105 104 97 76 104 97 79 20	\$95 31 54 54 54 54 36 40 40 36 29 40 37 7 88 14 29
	105 105 88 90 105 105 57 20 105 105 105 105 105 105 105 104 105 101 104 102 104 105 101	54 50 54 50 54 50 45 68 46 71 54 50 29 58 10 38 54 50 11 63 40 87 40 87	INVERNESS. SOUTH. Smith, E B Chisholm, Duncan Creelman, Laura M Fraser, Susie McDougall, Jessie A MacMaster, Annie J Munro, Fthel M Murray, Mildred Sr St Mary of the Ascension Calder, John A Finn, Violet A C Macdonald, Angus L Macdonald, Mary A McIsaac, Mary A McIsaac, Mary A McKenzie, Christina MacMillan, Gordon MacQueen, Katherine O'Brien, Rufus B Quigley, Mary E Rose, Lily	105 60 105 105 105 105 105 105 105 76 104 97 79 20 98 36	\$95 \$1 54 54 54 54 54 63 40 40 36 29 40 37 38 14 29 11

Sister St Marie	105	40 87	Arsenault, Nellie	105	27 2
Smyth, Margaret W	86	. 33 47	Arsenault, Mary B	105	27 28
Chisholm, M Cassie	100	25 95	Coady, Annie J	105	27 2
Davis, Mrs Mary	104 29	26 99 7 50	1	105	27 25
Doyle, Ellen J Giliis, Mary B	79	7 52 20 50	DesVaux, Adele Doyle, D H	105	27 23
Hureau, Helen	105	27 25	*Gillis, James D	105	27 28 36 38
Langley, Susan P	65	16 86	Gillis, J1mes John	105 83	21 54
Leonard, Eliza M	105	27 25	Hawley, Maude	88	22 84
McDonald, Katie	100	$25\ 95$	Sister Margaret Mary	105	27 25
MacDonald, Stauley P	89	23 10	McJonald, Mary L	103	26 73
McEachen, Mary A	105	27 25	Murphy, Thomas H	105	27 25
McFarlane, Mary C	101 105	26 21	*MacDaniel, Sadie B	89	30 80
McInnis, Jessie M Macintosh, Sophie M	20	27 25 5 18	McDaniel, Nellie J	105	27 25
McIntyre, Catherine I	105	27 25	McDonald, Florence M	79	20 50
McIver, Norena	98	25 43	*Murphy, Mary R	100 105	34 60 36 38
McLean, Duncan	77	19 98	*MacKinnon, Catherine	103	35 64
Maclean, Grace C	105	27 25	MacKinnon, Roderick	105	27 25
McLellan, Mary A	105	27 25	*McLellan, Katie .	88	30 45
McLellan, Agnes A	55	14 26	McLellan, Mary C	105	27 25
MacLeod, Mary M	95	24 65	McDonald, Mary A	50	12 97
MacMaster, Mamie	105	27 25	McKay, DP	105	27 25
McMaster, Margaret R	100	25 95	McMillan, John Angus	50	12 97
McNeil, Mary Ella	105	27 25	McDonald, Angus A	78	20 24
McPhuil, Cassie M MacRae, Jessie A	105 99	27 25 25 69	Phillips, Sadie	77	19 98
Martin, Jessie	105		Smith, Lorena	105	27 25
Sister St. John	105	27 25 27 25	*Stramberg, Johnina	38	11 42 21 02
Skinner, Daniel J	40	10 38	Shaw, Stephen R	81	21 02
Smith, Clara J	88	22 84	Assis t ant.		
Henderson, Mary B	105	36 33	ABSTRICT.		
McDonald, Annie M	84	29 07	Cormier, Mary A	105	18 16
McEachen, Mary M	89	30 80	: •		
McLean, Charles A	45	15 57			
NORTH.			KINGS.		
Billis, Malcolm H	105	54 50	Fairweather, Ernest E	105	\$95 37
McDonald, Duncan H McLean, Hector K	79 27	41 00	Godfrey, John F	100	51 99
Arsenault, Minnie	37 105	19 20 40 87	Kaulbach, Lenora	100	64 87 81 75
AuCoin, James H	105	40 87	Oxner, Bertha G Webster, Winifred	105	81 75
AuCoin, Hubert	51	19 85	Andrews, Lillian M	105 105	54 50
usten, Kenneth	10	3 89	Bentley, May B	105	54 50
Soudreau, Placide C	105	40 87	Best, Elsie M	105	54 50
Boudreau, Anselm	105	40 87	Bligh, Arabella	97	50 84
Soudreau, Joseph C					
	105	40 87	Burbidge, Josephine		48 27
r St Bernard	105	40 87	Burbidge, Josephine Chesley, Carrie E	93 105	54 50
r St Bernard r St John	105 105	40 87 40 87	Burbidge, Josephine Chesley, Carrie E Chipman, May L	93	54 50 53 98
r St Bernard r St John amphell, Katie J	105 105 105	40 87 40 87 40 87	Burbidge, Josephine Chesley, Carrie E Chipman, May L Cochrane, S Ethel	93 105 104 100	54 50 53 98 51 90
r St Bernard r St John ampbell, Katie J oady, Sarah Jane	105 105 105 105	40 87 40 87 40 87 40 87	Burbidge, Josephine Chesley, Carrie E Chipman, May L Cochrane, S Ethel Crowe, Louise B	93 105 104 100 105	54 50 53 98 51 90 54 50
r St Bernard r St John amphell, Katie J oady, Sarah Jane hiasson, Ephraim	105 105 105 105 105	40 87 40 87 40 87 40 87 40 87	Burbidge, Josephine Chesley, Carrie E Chipman, May L Cochrane, S Ethel Crowe, Louise B Eaton, Alice A	93 105 104 100 105 100	54 50 53 98 51 90 54 50 51 90
r St Bernard r St John amphell, Katie J oady, Sarah Jane hiasson, Ephraim hisholm, Arch A	105 105 105 105 105 105	40 87 40 87 40 87 40 87 40 87 40 87	Burbidge, Josephine Chesley, Carrie E Chipman, May L Cochrane, S Ethel Crowe, Louise B Eaton, Alice A Foote, C Perry	93 105 104 100 105 100 105	54 50 53 98 51 90 54 50 51 90 54 50
r St Bernard r St John amphell, Katie J oady, Sarah Jane hiasson, Ephraim hisholm, Arch A lderkin, E J	105 105 105 105 105	40 87 40 87 40 87 40 87 40 87	Burbidge, Josephine Chesley, Carrie E Chipman, May L Cochrane, S Ethel Crowe, Louise B Eaton, Alice A Foote, C Perry Ford, Robie W	93 105 104 100 105 100 105 99	54 50 53 98 51 90 54 50 51 90 54 50 51 38
r St Bernard r St John amphell, Katie J oady, Sarah Jane hiasson, Ephraim hisholm, Arch A lderkin, E J illis, Michael	105 105 105 105 105 105 105	40 87 40 87 40 87 40 87 40 87 40 87 40 87 83 08	Burbidge, Josephine Chesley, Carrie E Chipman, May L Cochrane, S Ethel Crowe, Louise B Eaton, Alice A Foote, C Perry Ford, Robie W Fulton, Elora Gesner, C Leonard	93 105 104 100 105 100 105 99 105	54 50 53 98 51 90 54 50 51 90 54 50 51 38 54 50
r St Bernard r St John amphell, Katie J loady, Sarah Jane hiasson, Ephraim hisholm, Arch A lderkin, E J illis, Michael eBlanc, John P latheson, C Edna	105 105 105 105 105 105 85 55	40 87 40 87 40 87 40 87 40 87 40 87 83 08 21 41	Burbidge, Josephine Chesley, Carrie E Chipman, May L Cochrane, S Ethel Crowe, Louise B Eaton, Alice A Foote, C Perry Ford, Robie W Fulton, Elora Gesner, C Leonard Gilliatt, Ruth B	93 105 104 100 105 100 105 99 105 88	54 50 53 98 51 90 54 50 51 90 54 50 51 38 54 50 45 68 54 50
r St Bernard r St John ampbell, Katie J oady, Sarah Jane hiasson, Ephraim hisholm, Arch A lderkin, E J illis, Michael eBlanc, John P latheson, C Edna cDaniel, Annie E	105 105 105 105 105 105 105 85 55 105 66 105	40 87 40 87 40 87 40 87 40 87 40 87 83 08 21 41 40 87 25 69 40 87	Burbidge, Josephine Chesley, Carrie E Chipman, May L Cochrane, S Ethel Crowe, Louise B Eaton, Alice A Foote, C Perry Ford, Robie W Fulton, Elora Gesner, C Leonard Gilliatt, Ruth B Greenleufe, Alice M	93 105 104 100 105 100 105 99 105 88 105	54 50 53 98 51 90 54 50 51 90 54 50 54 50 45 68 54 50 54 50
r St Bernard r St John ampbell, Katie J oady, Sarah Jane hiasson, Ephraim hisholm, Arch A lderkin, E J illis, Michael eBlanc, John P latheson, C Edna cDaniel, Annie E	105 105 105 105 105 105 85 55 105 66 105	40 87 40 87 40 87 40 87 40 87 40 87 83 08 21 41 40 87 25 69 40 87 40 87	Burbidge, Josephine Chesley, Carrie E Chipman, May L Cochrane, S Ethel Crowe, Louise B Eaton, Alice A Foote, C Perry Ford, Robie W Fulton, Elora Gesner, C Leonard Gilliatt, Ruth B Greenleafe, Alice M Hamilton, Bessie	93 105 104 100 105 100 105 99 105 88 105	54 50 53 98 51 90 54 50 51 90 54 50 54 50 54 50 54 50 54 50
r St Bernard r St John amphell, Katie J oady, Sarah Jane hiasson, Ephraim hisholm, Arch A lderkin, E J illis, Michael eBlanc, John P latheson, C Edna cDaniel, Annie E LLellan, Marjorie fcKinnon, John	105 105 105 105 105 105 105 85 55 105 66 105 105	40 87 40 87 40 87 40 87 40 87 40 87 83 08 21 41 40 87 25 69 40 87 40 87 40 87	Burbidge, Josephine Chesley, Carrie E Chipman, May L Cochrane, S Ethel Crowe, Louise B Eaton, Alice A Foote, C Perry Ford, Robie W Fulton, Elora Gesner, C Leonard Gilliatt, Ruth B Greenleafe, Alice M Hamilton, Eessie Hamilton, Gestrude	93 105 104 100 105 100 105 99 105 88 105	54 50 53 98 51 90 54 50 51 30 54 50 45 68 54 50 54 50 54 50 54 68
r St Bernard r St John ampbell, Katie J oady, Sarah Jane hiasson, Ephraim hisholm, Arch A lderkin, E J illis, Michael eBlanc, John P latheson, C Edna cDaniel, Annie E leLellan, Marjorie fcKinnon, John cDaniel, Ida	105 105 105 105 105 105 105 85 55 105 66 105 105	40 87 40 87 40 87 40 87 40 87 40 87 83 08 21 41 40 87 25 69 40 87 40 87 40 87 40 87	Burbidge, Josephine Chesley, Carrie E Chipman, May L Cochrane, S Ethel Crowe, Louise B Eaton, Alice A Foote, C Perry Ford, Robie W Fulton, Elora Gesner, C Leonard Gilliatt, Ruth B Greenleafe, Alice M Hamilton, Bessie Hamilton, Gertrude Healy, Lidy A	93 105 104 100 105 100 105 99 105 88 105 105	54 50 53 98 51 90 54 50 51 90 54 50 54 50 54 50 54 50 54 50 54 50
r St Bernard r St John ampbell, Katie J oady, Sarah Jane hiasson, Ephraim hisholm, Arch A lderkin, E J illis, Michael eBlanc, John P atheson, C Edna cDaniel, Annie E cLellau, Marjorie cKinnon, John cDaniel, Ida cDougall, Mary A	105 105 105 105 105 105 105 55 105 66 105 105 105	40 87 40 87 40 87 40 87 40 87 40 87 83 08 21 41 40 87 25 69 40 87 40 87 40 87 40 87	Burbidge, Josephine Chesley, Carrie E Chipman, May L Cochrane, S Ethel Crowe, Louise B Eaton, Alice A Foote, C Perry Ford, Robie W Fulton, Elora Geener, C Leonard Gilliatt, Ruth B Greenleafe, Alice M Hamilton, Bessie Hamilton, Gertrude Healy, Lidy A Illsley, Nellie E	93 105 104 100 105 100 105 99 105 88 105 105	54 50 53 98 51 90 54 50 51 95 51 38 54 50 45 68 54 50 54 50 54 50 54 50 54 50 54 50
r St Bernard r St John ampbell, Katie J oady, Sarah Jane hiasson, Ephraim hisholm, Arch A lderkin, E J illis, Michael eBlane, John P latheson, C Edna cDaniel, Annie E LLellan, Marjorie icKinnon, John cDaniel, Ida cDougall, Mary A cDonald, Martha	105 105 105 105 105 105 105 85 55 105 66 105 105 105 105	40 87 40 87 40 87 40 87 40 87 40 87 83 08 21 41 40 87 40 87 40 87 40 87 40 87 40 87	Burbidge, Josephine Chesley, Carrie E Chipman, May L Cochrane, S Ethel Crowe, Louise B Eaton, Alice A Foote, C Perry Ford, Robie W Fulton, Elora Gesner, C Leonard Gilliatt, Ruth B Greenleafe, Alice M Hamilton, Bessie Hamilton, Gertrude Healy, Lidy A Illsley, Nellie E Loomer, Estella J	93 105 104 100 105 100 105 99 105 88 105 105 105 88	54 50 53 98 51 90 54 50 51 95 51 38 54 50 54 50 54 50 54 50 54 50 54 50 54 50 54 50
r St Bernard r St John ampbell, Katie J oady, Sarah Jane hiasson, Ephraim hisholm, Arch A lderkin, E J illis, Michael eBlanc, John P latheson, C Edna lcDaniel, Annie E JLellan, Marjorie lcKinnon, John cDaniel, Ida lcDougall, Mary A cDonald, Martha lcLellan, A N	105 105 105 105 105 105 105 85 55 105 66 105 105 105 105	40 87 40 87 40 87 40 87 40 87 40 87 83 08 21 41 40 87 40 87 40 87 40 87 40 87 40 87 40 87 40 87	Burbidge, Josephine Chesley, Carrie E Chipman, May L Cochrane, S Ethel Crowe, Louise B Eaton, Alice A Foote, C Perry Ford, Robie W Fulton, Elora Gesner, C Leonard Gilliatt, Ruth B Greenleafe, Alice M Hamilton, Bessie Hamilton, Gertrude Healy, Lidy A Illsley, Nellie E Loomer, Estella J MacGregor, Ruperta	93 105 104 100 105 100 105 99 105 88 105 105 105 105 105	54 50 53 98 51 90 54 50 51 38 54 50 45 68 54 50 54 50 54 50 54 50
r St Bernard r St John samphell, Katie J loady, Sarah Jane hiasson, Ephraim hisholm, Arch A lderkin, E J lillis, Michael eBlanc, John P latheson, C Edna cDaniel, Annie E ld-ellan, Marjorie lcKinnon, John cDaniel, Ida lcDougall, Mary A cDonald, Martha lcLellan, A N cInnes, G	105 105 105 105 105 105 105 85 55 105 66 105 105 105 105	40 87 40 87 40 87 40 87 40 87 40 87 82 08 21 41 40 87 25 69 40 87 40 87	Burbidge, Josephine Chesley, Carrie E Chipman, May L Cochrane, S Ethel Crowe, Louise B Eaton, Alice A Foote, C Perry Ford, Robie W Fulton, Elora Gesner, C Leonard Gilliatt, Ruth B Greenleafe, Alice M Hamilton, Bessie Hamilton, Gertrude Healy, Lidy A Illsley, Nellie E Loomer, Estella J MacGregor, Ruperta McMahon, Laura	93 105 104 100 105 100 105 99 105 88 105 105 105 105 105 105	54 50 53 90 51 90 51 90 51 50 51 35 54 56 54 50 54 50 54 50 54 50 54 50 54 50
r St Bernard r St John ampbell, Katie J oady, Sarah Jane hiasson, Ephraim hisholm, Arch A dderkin, E J illis, Michael eBlanc, John P latheson, C Edna cDaniel, Annie E J-Lellan, Marjorie cKinnon, John cDaniel, Ida cDougall, Mary A cDonald, Martha cLellan, A N	105 105 105 105 105 105 105 85 55 105 66 105 105 105 105	40 87 40 87 40 87 40 87 40 87 40 87 83 08 21 41 40 87 40 87 40 87 40 87 40 87 40 87 40 87 40 87	Burbidge, Josephine Chesley, Carrie E Chipman, May L Cochrane, S Ethel Crowe, Louise B Eaton, Alice A Foote, C Perry Ford, Robie W Fulton, Elora Gesner, C Leonard Gilliatt, Ruth B Greenleafe, Alice M Hamilton, Bessie Hamilton, Gertrude Healy, Lidy A Illsley, Nellie E Loomer, Estella J MacGregor, Ruperta	93 105 104 100 105 100 105 99 105 88 105 105 105 105 105	54 50 53 98 51 90 54 50 51 38 54 50 45 68 54 50 54 50 54 50 54 50

Mawa			n + 1 - C		
McWhinnie, Lizzie Morse, Elizabeth G	105 104	54.50 53.98	Best, Lucy C Brown, Mariam C	67 104	22 77 26 99
AND WCOMB. Mary A	105	54 50	Chute, Edith	90	30 57
THERET. Maie L.	105	54 50	Chute, Nellie V	103	26 73
Nobinson, L. D.	105	54 50	*Coldwell. Lewis H	90	30 57
Rockwell, Gladys H	105	54 50	*Collins, Leila	89	30 24
Spinney, Hattie S Spurr, Alice M	105	54 50	*Costley, Estella M	93	31 59
Skinner, Louis R	100 105	51 90 54 50	Etter, Norma C *Finley, Eva L	105 105	27 25
Sutherland, Augusina	103	52 42	*Francy, Fthel M	105	35 67 85 67
Auorna Roga R	105	51 50	*Hanna, Ellen B	105	35 67
"elton Jennie	31	16 09	*Hazell, Eliza J	69	28 44
"Olton, Maldred	74	38 41	*Kinsman, Alice R	101	34 31
"Oddburg Mahal M	105	54 50	*McKeen, Ethel G	95	32 27
"OQWard, Grace L.	105	54 50	MacRae Luella M	105	27 25
Armstrong, Flora B	105	40 87	Miner, Bertha	14	3 63
Barteaux, Myrtilla E Bishop, Hattie L	105 105	40 87 40 87	*Nieforth, Edith M	82	27.86
"Vyle. Annie R	103	40 09	North, Millicent B *Parker, Bertha M	$\begin{array}{c} 105 \\ 105 \end{array}$	$27 25 \\ 35 67$
Prown. Ressie M	36	14 00	Parrish, Cora B	103	26 47
Callilli, Cassie I.	105	40 87	*Pineo, Mildred	80	27 18
Viallen, Ressie	105	40 87	*Randall, Alice	101	34 31.
Cuase, Millicent F	105	40 87	*Rogers, Abbie M	84	28 54
Chester Codio B	105	40 87	Roscoe, Josephine O	105	27.25
Chute, Fannie L Cox, Alice	105	40 87	*Saunders, Emilie A	78 <u>1</u>	26 68
Davison, Laura E	1 05 20	40 87 7 78	*Sim, Jennie P *Smith, B Evelyn	88 1 05	12 91
Talochinain Roscio K	94	36 59	Stronge, Eva M	50	35 67 12 97
* teluing Clare R	98	38 15	*Webber, S Christine	82	27 86
" "QUEV Kortha M	105	40 87	*West, Margaret O	105	35 67
	105	40 87	Whitman, Eva Pearl	55	14 26
" YOUNN Moreover	99	$38\ 54$	4		
	105	40 87	Assistants	١,	
Hennigar, Nina E	105	40 87	Montin Annia I	104	00.00
Jenkins, Giralda H Jenner, A Blanche	105	40 87 35 42	Martin, Annie L Sanford, S Beryl	104	26.99
	91 52	20 24	Salitora, is Beryr	102	26 47
	102	39 70	<u> </u>		
	105	40 87			
Tackhee Lillian I	50	19 46	LUNENBURG AND N	EW DUI	BLIN.
	105	40 87			
	105	40 87	Crombie, Isaac	100	\$90 82
Miner, Mildred E Moore, Elizabeth	105	40 87 40 87	Hewitt, Minnie C	104	80 97
	105 101	39 31	McKittrick, B Smeltzer, H R	104	94 🐠
	100	38 92	Balcom, Lewis D	105	95 37
Neville, Violet	105	40 87	Fancy, Lydia	99 1084	51 38 58 72
	105	40 87	Feindell, Gertrude	105-2	54 50
	80	31 14	Getson, Grace A	105	54 50
Parker Inc. F	55	21 41	Harlow, Lottie	105	54 50
Parker, Iva E	105	40 87	Joudrey, Edith	105	54 50
Parker, Lucia M Parker Pruie E	83	32 31	Lantz, Teresa	22	11 41
	98 105	38 15 40 87	Leary, Mary E	105	54 50
Phinney, Jennie D	103	40 09	Mader, Annie O	105 105	54 50 54 50
Porter, A Mande	. 105	40 87	Mullock, Florence Mader, Flora	105	54 50
Power, Carrie E	105	40 87	Maxner, Morris	105	54 50
Robinson, Clara Rockwell, Liara	105	40 87	McLaughlin, Lilla	99	51.38
Rockwell, Lila I	105	40 87	McMillan, Mand	100	51 90
Scott, Estella L Spicer Possible L	81	81 53	Parker, Lillie	99	51 88
Stagra A	105	40 87	Prince, Ina	105	54 50
Strong Hattle B	96	37 37	Spurr, Blanche	28	14 53
Swinds I hay S	108	40 09	Strumm, Gladys	105	54 50
Went of the rest o	97 104	37 76 30 49	Veinott, Alice	105	54 50 51 22
West Troattice	15	40 48 5 83	Young, Helen Young, Mary	99 10 4	51 38 5 3 98
Wood, Apha M	105	40 87	Wentzell, Hattie	104	51:90
Wright, Ethel L	105	40 87	Zinck, Etta M	105	54 50
				200	

			1		
Astbury, Lizzie	91	35 42	Chesley, Isabel	105	27 25
Bowers, Mary	108	40 09	Chesley, Jessie	105	27 25
Bell, Marie K	105	40 87	Cook, Nellie P	79	20 50
Bolivar, Alma	105	40 87	Corkum, Beatrice	103	26 78 27 25
Brooks, Blanche	105	40 87	Corkum, Cassie	105	30 80
Bruhm, Flora	102	39 70	*Corkum, Gladys	89	36 33
Bruhm, Muriel	105	40 87	*Corkum, Minnie	105	23 10
Cox, Sadie E	99 1	38 73	Crane, Georgina	89	27 25
Crawford, Florence	· 100 105	38 92	Deal, Bernice	105	34 42
Dorrie, Gladys	101	40 87 39 31	*Durland, Nina Ernst, Florence C	99 <u>1</u> 105	27 25
Ernst, Phebe	105	40 87	Fancy, Elizabeth	100	25 95
Duncan Jessie Falkenham, Emma	105	40 87	Feener, Nora	105	27 25
Fancy, Jennie	97	37 76	Feindell, Addie	105	27 25
Fralic, Elsie	105	40 87	Feindell, Flora	105	27 25
Fralie, Elva	102	39 70	Forbes, Annie J	105	27 25
Freeman, Hilda	79	30 76	Freeman, Nellie V	105	27 25
Hagan, Jedidah	105	40 87	Garber, Jennie	104	26 99
Hamm, Erema	99	38 54	Getson, Mary	104	26 99
Hawksworth, Eva	100	$38 \ 92$	Glawson, Josie	105	27 25
Hebb, Elsie	105	40 87	Heisler, Arthur	105	40 87
Hebb, Florence	103	40 09	"Heisler, Nollie	105	36 33
Herman, Bertha	105	40 87	Hirtle, Amanda	89	23 10
Hirtle, Ethel	105	40 87	Hirtle, Etta M	105	27 25
Hirtle, Roy	98	3 8 15	Himmelman, Viola	105	27 25
Keddy, Beatrice	100	88 92	Hyson, Ada E	43	11 16 27 25
Keddy, Bessie	105	40 87	Inglis, Etta F	105	27 25
Langille, Edith	105	40 87	Inglis, Flora	105	36 33
Lantz, Hannah	105	40 87	*Joudrey, Lida B	105	25 69
Lohnes, Minnie	105	40 87	Kaulback, Laura	99	20 50
Mader, Bessie	105	40 87	Keddy, Sadie D	79	27 25
Manthorne, Maud	105	40 87	Keddy, Sophia	105	27 25
Mason, Jessie	86	33 47	Kennedy, Lois	105	97 20
Millett, Sadie	105	40 87	Langille, Rebecca	105	27 25
McCabe, John M	108	40 09	Lohnes, Annie	105	8 82
McLachlan, Ethei	99	38 54	Mack, Theresa	34 105	27 25
McLachlan, Lelia	104	40 48	Mossman, Ada L		26 99
McLannan, Affaretta	105	40 87 40 87	Mouzar, Laliah	10 4 105	27 25
Naugler, Agnes	105 49	19 06	Morash, Carrie	105	27 20
Newcombe, Mabel	105	40 87	Mullock, Adelaide Parnell, Alma	105	27 25
Nicol, Minnie J Mason, Leaman	105	29 56	*Publicover, Lida	103	95 6 4
Reinhardt, Grace	104	40 48	Rafuse, Jennie B	105	27 25
Richard, Edith	105	40 87	Rafuse, Maggie	100	25 95
Rudolf, Mary	100	38 92	Sarty, Eva	105	27 25
Silver, Susie	105	40 87	Silver, Clara	1041	27 12
Smeltzer, Lillie	105	40 87	Smeltzer, Jennie	105	27 25
Smith, Eva M	105	40 87	Smith, Ada A	105	27 25
Smith, Idella	105	40 87	*Spidell, Jennie M	55	19 03
Smith, Lola L	105	40 87	*Spurr, Alma E	86	29 76
Smith Mary	100	38 92	Strumm, Emma	99	25 69
Taylor, Edith	105	40 87	Thompson, Lilian	100	25 95
Thompson, Florian	100	88 92	Veinot, Lillian	89	23 10
Thompson, Mary E	100	38 92	Wagner, Ella A	87	22 58
Tobin, Ellen M	100	88 92	Wentzell, Jemima	74	19 20 22 82
Tobin, Mary E	100	38 92	Westhaver, Jennie	86	36 38
Trethewey, Jessie	103	40 09	*Wilson, Eva	105	19 03
Warner, Emma L	105	40 87	*Winters, Stella	55	19 00
Webber, Debbie	100	38 92			
Wentzell, Ida H	$103\frac{1}{2}$	40 28	CHESTER.		
West, Ella L	105	40 87			\$93 55
Wilson, Violet L	105	40 87	Osborne, N A	103	44 12
			Goudey, Alice	85	95 14
Adams, Lilian	105	27 25	Soundy, Airce		<i>ល</i> ម្ភ ពទ
Bell. Emma L	105	27 25	Hennigar, Mabel	56	28 54 54 50
Bell, Emma L Rall, Gertrude	105 105	27 25 27 25	Hennigar, Mabel Leut, Irene	105	54 50
Adams, Lillian Bell, Emma L Bell, Gertrude Bell, Minnie M	105 105 105	27 25 27 25 27 25	Hennigar, Mabel Lent, Irene Lohnes, Eya M	10 5 105	54 50 54 50
Bell, Emma L Rall, Gertrude	105 105	27 25 27 25	Hennigar, Mabel Leut, Irene	105	54 50

Zinck, Minnie	105	54 50	Payne, Sadie M	102	39 7 0
Astbury, Minnie	52	20 24	Perrin, Elva E	100	38 92
Challen, Minnie	105	40 87	Rose, Jessie F	100	38 92
Chesley, Ethel M	105	40 87	Ross, Bessie B	105	40 87
Hiltz, Adelaide	105	40 87	Schultz, Sadie J	102	
Langilla Tari					39 70
Langille, Jessie	105	40 87	Sutherland, Bessie	104	40 48
Lockhart, Annie	105	40 87	Sylvester, Mary	100	$38 \ 92$
Long, Alma	105	40 87	Tattrie, Mabel C	105	40 87
Parker, Carrie	103	40 09	Adamson, Mary E	105	27 25
Patterson Florence	32	12 45	Brown, Isabelle	84	21 80
Reeves, Ella M	1043	40 67	Campbell, Jennie	90	23 35
Selden Clementine				60	
Seldon, Clementine	20	7 78	Cameron, M Jean		15 56
Knickle, Kathleen	105	40 87	Dwyer, Mary E	102	26 47
*Corkum, Annie B	893	30 97	Gunn, Jessie	102	$26\ 47$
Demone, Eva	55	14 26	Fullerton, Mabel	105	$27\ 25$
*Francis, Hildred	98	33 90	Grant, Wm A	103	26 7 6
Hawboldt, Ida	99	25 69	Harvey, Essie	103	26 76
Home !			AT		
Hennigar, Grace	105	27 25	*Irving, Alice	104	35 98
Lewis, Beatrice	105	27 25	Johnson, Lillian	98	25 43
Meisner, Gladys	105	27 25	*Langille, Edith	105	3 6 33 :
Nauss. Eva	105	27 25	MacDonald, Essie J	99	25 69
*Smith, Ida R	105	36 38	MacDonald, Cassie	92	23 87
Spunn Annie					
Spurr, Annie	105	27 25	MacKnight, Jessie	105	27 25
Wile, Dora A	77	26 64	MacKay, Annie C	105	27 25
Zinck, Austin A	105	27 25	MacKay, Christina B	105	27 25
			MacIntosh, Jennie S	104	26 99
			Matheson, Myrtle	105	27 25
			*MacKay, Norman C	105	36 33
DICTOIT				108	26 73
PICTOU.			McQuarrie, Jessie M		
			*Murray, Grace A	105	36 33
NORTH.			Rae, Cora S	90	23 35
			Reid, M Olive	98	25 43
MacLellan, Robt	94	\$85 36	Urquhart, Martha A	102	26 47
McLeod, Angus	94	73 17	Vair, J Douglas	76	19 72
Moone CT					00.41
14100re, () L	92	71 61	*Williamson, Christina	85	29 41
Munro, H F					29 41 16 6 0
Munro, H F Gray, Margaret	92	71 61	*Williamson, Christina	85	
Munro, H F Gray, Margaret	92 92 105	71 61 71 61 54 50	*Williamson, Christina Wright, Bertha	85	
Munro, H F Gray, Margaret MacKay, Apple	92 92 105 100	71 61 71 61 54 50 51 90	*Williamson, Christina	85	
Munro, H F Gray, Margaret MacKay, Annie McArthur, Olive E	92 92 105 100 100	71 61 71 61 54 50 51 90 51 90	*Williamson, Christina Wright, Bertha SOUTH.	85 64	16 60
Munro, H F Gray, Margaret MacKay, Annie McArthur, Olive E MacRae, Muriel	92 92 105 100 100	71 61 71 61 54 50 51 90 51 90 51 90	*Williamson, Christina Wright, Bertha SOUTH. McLeod, J T	85 64 100	16 60 90 82
Munro, H F Gray, Margaret MacKay, Annie McArthur, Olive E MacRae, Muriel Munro Mossie M	92 92 105 100 100 100	71 61 71 61 54 50 51 90 51 90 51 90 54 50	*Williamson, Christina Wright, Bertha SOUTH. McLeod, J T MoLeod, J D	85 64 100 105	90 82 95 37
Murro, H F Gray, Margaret MacKay, Annie McArthur, Olive E MacRae, Muriel Murro, Mossie M Murdoch, Louisa M	92 92 105 100 100	71 61 71 61 54 50 51 90 51 90 51 90	*Williamson, Christina Wright, Bertha SOUTH. McLeod, J T	85 64 100	16 60 90 82
Moore, C L Munro, H F Gray, Margaret MacKay, Annie McArthur, Olive E MacRae, Muriel Munro, Mossie M Murdoch, Louisa M Tanch, Jos H	92 92 105 100 100 100	71 61 71 61 54 50 51 90 51 90 51 90 54 50	*Williamson, Christina Wright, Bertha SOUTH. McLeod, J T McLeod, J D Roy, Frances B	85 64 100 105 99	90 82 95 37 64 22
Moore, C L Munro, H F Gray, Margaret MacKay, Annie McArthur, Olive E MacRae, Muriel Munro, Mossie M Murdoch, Louisa M Tanch, Jos H	92 92 105 100 100 100 105 102 100	71 61 71 61 54 50 51 90 51 90 51 90 54 50 52 94 51 90	*Williamson Christina Wright, Bertha SOUTH. McLeod, J T McLeod, J D Roy, Frances B Stapleton, W C	85 64 100 105 99 100	90 82 95 37 64 22 77 85
Moore, C L Munro, H F Gray, Margaret MacKay, Annie McArthur, Olive E MacRae, Muriel Munro, Mossie M Murdoch, Louisa M Tanch, Jos H Young, Nettie	92 92 105 100 100 100 105 102 100 105	71 61 71 61 54 50 51 90 51 90 54 50 52 94 51 90 54 50	*Williamson Christina Wright, Bertha SOUTH. McLeod, J T McLeod, J D Roy, Frances B Stapleton, W C Allan, Margaret	85 64 100 105 99 100 105	90 82 95 37 64 22 77 85 54 50
Moore, C L Munro, H F Gray, Margaret MacKay, Annie McArthur, Olive E MacRae, Muriel Munro, Mossie M Murdoch, Louisa M Tanch, Jos H Young, Nettie Archibald, Ann	92 92 105 100 100 100 105 102 100 105 104	71 61 71 61 54 50 51 90 51 90 51 90 54 50 52 94 51 90 54 50 40 48	*Williamson Christina Wright, Bertha SOUTH. McLeod, J T McLeod, J D Roy, Frances B Stapleton, W C Allan, Margaret Brunt, B Gertrude	85 64 100 105 99 100 105 105	90 82 95 37 64 22 77 85 54 50 54 50
Moore, C L Munro, H F Gray, Margaret MacKay, Annie McArthur, Olive E MacRae, Muriel Munro, Mossie M Murdoch, Louisa M Tanch, Jos H Young, Nettie Archibald, Ann Archibald, Carrie F	92 92 105 100 100 100 105 102 100 105 104 104	71 61 71 61 54 50 51 90 51 90 54 50 52 94 51 90 54 50 40 48 40 48	*Williamson Christina Wright, Bertha SOUTH. McLeod, J T McLeod, J D Roy, Frances B Stapleton. W U Allan, Margaret Brunt, B Gertrude Fraser, Attie	100 105 99 100 105 105 80	90 82 95 37 64 22 77 85 54 50 54 50 41 52
Moore, C L Munro, H F Gray, Margaret MacKay, Annie McArthur, Olive E MacRae, Muriel Munro, Mossie M Murdoch, Louisa M Tanch, Jos H Young, Nettie Archibald, Ann Archibald, Carrie F Baillie A G	92 92 105 100 100 100 105 102 100 105 104 104	71 61 71 61 54 50 51 90 51 90 54 50 52 94 51 90 54 50 40 48 40 48 38 54	*Williamson Christina Wright, Bertha SOUTH. McLeod, J T MoLeod, J D Roy, Frances B Stapleton. W C Allan, Margaret Brunt, B Gertrude Fraser, Attie Fraser, Marion L	85 64 100 105 99 100 105 105 80 105	90 82 95 37 64 22 77 85 54 50 54 50 41 52 54 50
Moore, C L Munro, H F Gray, Margaret MacKay, Annie McArthur, Olive E MacRae, Muriel Munro, Mossie M Murdoch, Louisa M Tanch, Jos H Young, Nettie Archibald, Ann Archibald, Carrie F Baillie, A G Campbell, Margaret	92 92 105 100 100 100 105 102 100 105 104 104	71 61 71 61 54 50 51 90 51 90 54 50 52 94 51 90 54 50 40 48 40 48	*Williamson Christina Wright, Bertha SOUTH. McLeod, J T MoLeod, J D Roy, Frances B Stapleton. W C Allan, Margaret Brunt, B Gertrude Fraser, Attie Fraser, Marion L	100 105 99 100 105 105 80	90 82 95 37 64 22 77 85 54 50 54 50 41 52
Moore, C L Munro, H F Gray, Margaret MacKay, Annie McArthur, Olive E MacRae, Muriel Munro, Mossie M Murdoch, Louisa M Tanch, Jos H Young, Nettie Archibald, Ann Archibald, Carrie F Baillie, A G Campbell, Margaret Carruthers, C E	92 92 105 100 100 105 105 100 105 104 104 99 103	71 61 71 61 54 50 51 90 51 90 54 50 52 94 51 90 54 50 40 48 40 48 38 54	*Williamson Christina Wright, Bertha SOUTH. McLeod, J T McLeod, J D Roy, Frances B Stapleton, W C Allan, Margaret Brunt, B Gertrude Fraser, Attie Fraser, Marion L Fraser, Winifred	85 64 100 105 99 100 105 105 80 105	90 82 95 37 64 22 77 85 54 50 54 50 41 52 54 50
Moore, C L Munro, H F Gray, Margaret MacKay, Annie McArthur, Olive E MacRae, Muriel Munro, Mossie M Murdoch, Louisa M Tanch, Jos H Young, Nettie Archibald, Ann Archibald, Carrie F Baillie, A G Campbell, Margaret Carruthers, C E	92 92 105 100 100 105 102 100 103 104 99 103 105	71 61 71 61 54 50 51 90 51 90 54 50 52 94 51 90 54 50 40 48 40 48 40 48 40 49 40 87	*Williamson Christina Wright, Bertha SOUTH. McLeod, J T McLeod, J D Roy, Frances B Stapleton, W C Allan, Margaret Brunt, B Gertrude Fraser, Attie Fraser, Marion L Fraser, Winifred Fraser, Mabel O	85 64 100 105 99 100 105 105 80 105 105 105	90 82 95 37 64 22 77 85 54 50 41 52 54 50 54 50 54 50
Moore, C L Munro, H F Gray, Margaret MacKay, Annie McArthur, Olive E MacRae, Muriel Munro, Mossie M Murdoch, Louisa M Tanch, Jos H Young, Nettie Archibald, Ann Archibald, Carrie F Baillie, A G Campbell, Margaret Carruthers, C E Campron, Ressie N	92 92 105 100 100 105 105 104 104 99 103 105 77	71 61 71 61 54 50 51 90 51 90 54 50 52 94 51 90 54 50 40 48 40 48 38 54 40 99 40 87 29 96	*Williamson Christina Wright, Bertha SOUTH. McLeod, J T McLeod, J D Roy, Frances B Stapleton. W C Allan, Margaret Brunt, B Gertrude Fraser, Attie Fraser, Marion L Fraser, Winifred Fraser, Winifred Fraser, Mabel O Grant, Clara A	85 64 100 105 99 100 105 105 105 105 105	90 82 95 37 64 22 77 85 54 50 54 50 54 50 54 50 54 50
Moore, C L Munro, H F Gray, Margaret MacKay, Annie McArthur, Olive E MacRae, Muriel Munro, Mossie M Murdoch, Louisa M Tanch, Jos H Young, Nettie Archibald, Ann Archibald, Carrie F Baillie, A G Campbell, Margaret Carruthers, C E Cameron, Bessie N Ferguson, Janie A	92 92 105 100 100 105 102 100 103 104 104 99 103 105 77	71 61 71 61 54 50 51 90 51 90 54 50 52 94 51 90 54 50 40 48 40 48 38 54 40 09 40 87	*Williamson Christina Wright, Bertha SOUTH. McLeod, J T McLeod, J D Roy, Frances B Stapleton. W U Allan, Margaret Brunt, B Gertrude Fraser, Attie Fraser, Marion L Fraser, Winifred Fraser, Winifred Fraser, Mabel O Grant, Clara A Gould, Annie S	85 64 100 105 99 100 105 105 105 105 105 105	90 82 95 37 64 22 77 85 54 50 54 50 54 50 54 50 54 50 54 50
Moore, C L Munro, H F Gray, Margaret MacKay, Annie McArthur, Olive E MacRae, Muriel Munro, Mossie M Murdoch, Louisa M Tanch, Jos H Young, Nettie Archibald, Ann Archibald, Carrie F Baillie, A G Campbell, Margaret Carruthers, C E Cameron, Bessie N Ferguson, Janie A Fraser, Katherine	92 92 105 100 100 100 105 102 100 103 104 99 103 105 77	71 61 71 61 54 50 51 90 51 90 54 50 52 94 51 90 54 50 40 48 40 48 40 09 40 87 29 96 40 87 27 24	*Williamson Christina Wright, Bertha SOUTH. McLeod, J T McLeod, J D Roy, Frances B Stapleton, W C Allan, Margaret Brunt, B Gertrude Fraser, Attie Fraser, Marion L Fraser, Marion L Fraser, Mabel O Grant, Clara A Gould, Annie S Harlow, A C	85 64 100 105 99 100 105 105 105 105 105 105	90 82 95 37 64 22 77 85 54 50 54 50 54 50 54 50 54 50 54 50 54 50 54 50 54 50
Moore, C L Munro, H F Gray, Margaret MacKay, Annie McArthur, Olive E MacRae, Muriel Munro, Mossie M Murdoch, Louisa M Tanch, Jos H Young, Nettie Archibald, Ann Archibald, Carrie F Baillie, A G Campbell, Margaret Carruthers, C E Cameron, Bessie N Ferguson, Janie A Fraser, Katherine MacKay, Reatrice	92 92 105 100 100 105 102 100 103 104 104 99 103 105 77	71 61 71 61 54 50 51 90 51 90 54 50 52 94 51 90 54 50 40 48 40 48 40 48 40 48 40 87 29 96 40 87 29 98 40 87 29 98 40 87 29 98	*Williamson Christina Wright, Bertha SOUTH. McLeod, J T McLeod, J D Roy, Frances B Stapleton. W U Allan, Margaret Brunt, B Gertrude Fraser, Attie Fraser, Marion L Fraser, Mar	85 64 100 105 99 100 105 105 105 105 105 105 105	90 82 95 37 64 22 77 85 54 50 41 52 54 50 54 50 54 50 54 50 54 50 54 50 54 50
Moore, C L Munro, H F Gray, Margaret MacKay, Annie McArthur, Olive E MacRae, Muriel Munro, Mossie M Murdoch, Louisa M Tanch, Jos H Young, Nettie Archibald, Ann Archibald, Carrie F Baillie, A G Campbell, Margaret Carruthers, C E Camperon, Bessie N Ferguson, Janie A Fraser, Katherine MacKay, Beatrice MacKay, Marion A	92 92 105 100 100 100 105 102 100 103 104 99 103 105 77	71 61 71 61 54 50 51 90 51 90 54 50 52 94 51 90 54 50 40 48 40 48 40 48 40 87 29 96 40 87 27 24 38 92 40 48	*Williamson Christina Wright, Bertha SOUTH. McLeod, J T McLeod, J D Roy, Frances B Stapleton. W C Allan, Margaret Brunt, B Gertrude Fraser, Attie Fraser, Marion L Fraser, Winifred Fraser, Winifred Fraser, Clara A Gould, Annie S Harlow, A C Hicks, Blanche Johnston, Isabel	85 64 100 105 99 100 105 105 105 105 105 105 105 105	90 82 95 37 64 22 77 85 54 50 54 50 54 50 54 50 54 50 54 50 54 50 54 50 54 50
Moore, C L Munro, H F Gray, Margaret MacKay, Annie McArthur, Olive E MacRae, Muriel Munro, Mossie M Murdoch, Louisa M Tanch, Jos H Young, Nettie Archibald, Ann Archibald, Carrie F Baillie, A G Campbell, Margaret Carruthers, C E Cameron, Bessie N Ferguson, Janie A Fraser, Katherine MacKay, Beatrice MacKay, Marion A McLeod Ressie J	92 92 92 105 100 100 105 104 104 104 103 105 77 105 70 100 100	71 61 71 61 54 50 51 90 51 90 54 50 52 94 51 90 54 50 40 48 40 48 40 48 40 48 40 87 29 96 40 87 29 98 40 87 29 98 40 87 29 98	*Williamson Christina Wright, Bertha SOUTH. McLeod, J T McLeod, J D Roy, Frances B Stapleton. W U Allan, Margaret Brunt, B Gertrude Fraser, Attie Fraser, Marion L Fraser, Mar	85 64 100 105 99 100 105 105 105 105 105 105 105	90 82 95 37 64 22 77 85 54 50 41 52 54 50 54 50 54 50 54 50 54 50 54 50 6 23
Moore, C L Munro, H F Gray, Margaret MacKay, Annie McArthur, Olive E MacRae, Muriel Munro, Mossie M Murdoch, Louisa M Tanch, Jos H Young, Nettie Archibald, Ann Archibald, Carrie F Baillie, A G Campbell, Margaret Carruthers, C E Cameron, Bessie N Ferguson, Janie A Fraser, Katherine MacKay, Beatrice MacKay, Beatrice MacKay, Marion A McLeod, Bessie J MacIntoeb, D S	92 92 105 100 100 100 105 102 100 103 104 104 99 103 105 77 105 70 100 104 20	71 61 71 61 54 50 51 90 51 90 54 50 52 94 51 90 54 50 40 48 40 48 40 48 40 87 29 96 40 87 27 24 40 48 7 78	*Williamson Christina Wright, Bertha SOUTH. McLeod, J T McLeod, J D Roy, Frances B Stapleton. W C Allan, Margaret Brunt, B Gertrude Fraser, Attie Fraser, Marion L Fraser, Winifred Fraser, Winifred Fraser, Mabel O Grant, Clara A Gould, Annie S Harlow, A C Hicks, Blanche Johnston, Isabel Laurie, Elizabeth	85 64 100 105 99 100 105 105 105 105 105 105 105 105	90 82 95 37 64 22 77 85 54 50 41 52 54 50 54 50 54 50 54 50 54 50 6 23 54 50
Moore, C L Munro, H F Gray, Margaret MacKay, Annie McArthur, Olive E MacRae, Muriel Munro, Mossie M Murdoch, Louisa M Tanch, Jos H Young, Nettie Archibald, Ann Archibald, Carrie F Baillie, A G Campbell, Margaret Carruthers, C E Cameron, Bessie N Ferguson, Janie A Fraser, Katherine MacKay, Beatrice MacKay, Beatrice MacKay, Marion A McLeod, Bessie J MacIntoeb, D S	92 92 92 105 100 100 105 102 100 103 104 99 103 105 77 105 70 100 104 20	71 61 71 61 54 50 51 90 51 90 54 50 52 94 51 90 54 50 40 48 40 48 40 09 40 87 29 96 40 48 40 48 38 92 40 48 7 78 39 70	*Williamson Christina Wright, Bertha SOUTH. McLeod, J T McLeod, J D Roy, Frances B Stapleton. W C Allan, Margaret Brunt, B Gertrude Fraser, Attie Fraser, Marion L Fraser, Marion L Fraser, Marion L Grant, Clara A Gould, Annie S Harlow, A C Hicks, Blanche Johnston, Isabel Laurie, Elizabeth MacKenzie, A S	85 64 100 105 99 100 105 105 105 105 105 105 105 105 105	90 82 95 37 64 22 77 85 54 50 54 50
Moore, C L Munro, H F Gray, Margaret MacKay, Annie McArthur, Olive E MacRae, Muriel Munro, Mossie M Murdoch, Louisa M Tanch, Jos H Young, Nettie Archibald, Carrie F Baillie, A G Campbell, Margaret Carruthers, C E Cameron, Bessie N Ferguson, Janie A Fraser, Katherine MacKay, Beatrice MacKay, Marion A McLeod, Bessie J MacIntosh, D S Maclanders, Jenvie	92 92 92 105 100 100 105 102 100 103 104 99 103 105 77 105 70 100 104 20 102	71 61 71 61 54 50 51 90 51 90 54 50 52 94 51 90 54 50 40 48 40 48 40 48 40 87 29 96 40 87 29 96 40 87 27 24 38 92 40 48 7 78 39 70 37 37	*Williamson Christina Wright, Bertha SOUTH. McLeod, J T McLeod, J D Roy, Frances B Stapleton. W C Allan, Margaret Brunt, B Gertrude Fraser, Attie Fraser, Marion L Grant, Clara A Gould, Annie S Harlow, A C Hicks, Blanche Johnston, Isabel Laurie, Elizabeth MacKenzie, A S Macpherson, Eliza I	85 64 100 105 99 100 105 105 105 105 105 100 105 105 105	90 82 95 37 64 22 77 85 54 50 54 50
Moore, C L Munro, H F Gray, Margaret MacKay, Annie McArthur, Olive E MacRae, Muriel Munro, Mossie M Murdoch, Louisa M Tanch, Jos H Young, Nettie Archibald, Ann Archibald, Carrie F Baillie, A G Campbell, Margaret Carruthers, C E Camperon, Bessie N Ferguson, Janie A Fraser, Katherine MacKay, Beatrice MacKay, Beatrice MacKay, Marion A McLeod, Bessie J MacIntosh, D S Maclanders, Jennie MacKayie, Morthe	92 92 92 105 100 100 105 102 100 103 104 103 105 77 105 70 100 104 20 96 105	71 61 71 61 54 50 51 90 51 90 54 50 52 94 51 90 54 50 40 48 40 48 40 48 40 87 29 96 40 87 29 96 40 87 27 24 38 92 40 48 7 78 39 70 37 37 40 87	*Williamson Christina Wright, Bertha SOUTH. McLeod, J T McLeod, J D Roy, Frances B Stapleton. W C Allan, Margaret Brunt, B Gertrude Fraser, Attie Fraser, Marion L Fraser, Marion L Fraser, Marion L Fraser, Winifred Fraser, Clara A Gould, Annie S Harlow, A C Hicks, Blanche Johnston, Isabel Laurie, Elizabeth MacKenzie, A S Macpherson, Eliza I MacLean, Cassie	85 64 100 105 99 100 105 105 105 105 105 105 105 105 105	90 82 95 37 64 22 77 85 54 50 41 52 54 50 54 50 54 50 6 23 54 50 54 50 54 50 54 50 54 50 54 50 54 50 54 50
Moore, C L Munro, H F Gray, Margaret MacKay, Annie McArthur, Olive E MacRae, Muriel Munro, Mossie M Murdoch, Louisa M Tanch, Jos H Young, Nettie Archibald, Ann Archibald, Carrie F Baillie, A G Campbell, Margaret Carruthers, C E Cameron, Bessie N Ferguson, Janie A Fraser, Katherine MacKay, Beatrice MacKay, Marion A McLeod, Bessie J MacIntosh, D S Maclanders, Jennie MacKenzie, Martha MacKingen Ade K	92 92 92 105 100 100 105 102 100 103 104 99 103 105 77 105 70 100 104 20 102	71 61 71 61 54 50 51 90 51 90 54 50 52 94 51 90 54 50 40 48 40 48 40 48 40 87 29 96 40 87 29 96 40 87 27 24 38 92 40 48 7 78 39 70 37 37	*Williamson Christina Wright, Bertha SOUTH. McLeod, J T McLeod, J D Roy, Frances B Stapleton. W C Allan, Margaret Brunt, B Gertrude Fraser, Attie Fraser, Marion L Fraser, Winifred Fraser, Winifred Fraser, Wabel O Grant, Clara A Gould, Annie S Harlow, A C Hicks, Blanche Johnston, Isabel Laurie, Elizabeth MacKenzie, A S Macpherson, Eliza I MacLean, Cassie MacGlashan, Isabel	85 64 100 105 99 100 105 105 105 105 105 100 105 105 105	90 82 95 37 64 22 77 85 54 50 54 50
Moore, C L Munro, H F Gray, Margaret MacKay, Annie McArthur, Olive E MacRae, Muriel Munro, Mossie M Murdoch, Louisa M Tanch, Jos H Young, Nettie Archibald, Ann Archibald, Ann Archibald, Carrie F Baillie, A G Campbell, Margaret Carruthers, C E Cameron, Bessie N Ferguson, Janie A Fraser, Katherine MacKay, Beatrice MacKay, Marion A McLeod, Bessie J MacIntosh, D S Maclanders, Jennie MacKenzie, Martha MacKenzie, Martha MacKenzie, Mariorie	92 92 92 105 100 100 100 105 104 104 104 99 103 105 77 105 70 100 104 20 102 96 105 105	71 61 71 61 54 50 51 90 51 90 54 50 52 94 51 90 54 50 40 48 40 48 40 87 29 96 40 87 27 24 38 92 40 48 7 78 39 70 37 70 37 37 40 87	*Williamson Christina Wright, Bertha SOUTH. McLeod, J T McLeod, J D Roy, Frances B Stapleton. W C Allan, Margaret Brunt, B Gertrude Fraser, Attie Fraser, Marion L Fraser, Winifred Fraser, Mabel O Grant, Clara A Gould, Annie S Harlow, A C Hicks, Blanche Johnston, Isabel Laurie, Elizabeth MacKenzie, A S Macpherson, Eliza I MacLean, Cassie MacClashan, Isabel Macliashan, Isabel MacInis, A D	85 64 100 105 99 100 105 105 105 105 105 105 105 105 105	90 82 95 37 64 22 77 85 54 50 41 52 54 50 54 50 54 50 54 50 54 50 54 50 54 50 54 50 54 50
Moore, C L Munro, H F Gray, Margaret MacKay, Annie McArthur, Olive E MacRae, Muriel Munro, Mossie M Murdoch, Louisa M Tanch, Jos H Young, Nettie Archibald, Ann Archibald, Carrie F Baillie, A G Campbell, Margaret Carruthers, C E Cameron, Bessie N Ferguson, Janie A Fraser, Katherine MacKay, Beatrice MacKay, Beatrice MacKay, Beatrice MacKay, Marion A McLeod, Bessie J MacIntosh, D S Maclanders, Jennie MacKenzie, Martha MacKenzie, Marjorie MacKenzie, Marjorie MacKenzie, Marjorie	92 92 92 105 100 100 105 102 104 104 104 99 103 105 77 105 70 100 104 20 102 96 105 105	71 61 71 61 71 61 54 50 51 90 51 90 54 50 52 94 51 90 54 50 40 48 40 48 38 54 40 87 29 96 40 87 27 24 38 7 78 39 70 37 37 40 87 40 87 33 47	*Williamson Christina Wright, Bertha SOUTH. McLeod, J T McLeod, J D Roy, Frances B Stapleton. W C Allan, Margaret Brunt, B Gertrude Fraser, Attie Fraser, Marion L Fraser, Winifred Fraser, Mabel O Grant, Clara A Gould, Annie S Harlow, A C Hicks, Blanche Johnston, Isabel Laurie, Elizabeth MacKenzie, A S Macpherson, Eliza I MacLean, Cassie MacClashan, Isabel Macliashan, Isabel MacInis, A D	85 64 100 105 99 100 105 105 105 105 105 105 105 105 105	90 82 95 37 64 22 77 85 54 50 54 50
Moore, C L Munro, H F Gray, Margaret MacKay, Annie McArthur, Olive E MacRae, Muriel Munro, Mossie M Murdoch, Louisa M Tanch, Jos H Young, Nettie Archibald, Carrie F Baillie, A G Campbell, Margaret Carruthers, C E Camperon, Bessie N Ferguson, Janie A Fraser, Katherine MacKay, Beatrice MacKay, Marion A McLeod, Bessie J MacIntosh, D S Maclanders, Jennie MacKenzie, Martha MacKenzie, Martha MacKenzie, Marjorie Maxwell, Lola McCann, Ledel	92 92 92 105 100 100 100 105 102 100 103 104 99 103 105 77 105 70 100 102 96 105 105 86 105	71 61 71 61 54 50 51 90 51 90 54 50 40 48 40 48 40 48 40 87 29 96 40 88 40 48 7 24 38 92 40 48 7 78 39 70 87 37 40 87 40 87	*Williamson Christina Wright, Bertha SOUTH. McLeod, J T McLeod, J D Roy, Frances B Stapleton. W C Allan, Margaret Brunt, B Gertrude Fraser, Attie Fraser, Marion L Grah, Clara A Gould, Annie S Harlow, A C Hicks, Blanche Johnston, Isabel Laurie, Elizabeth MacKenzie, A S Macpherson, Eliza I MacLean, Cassie MacGlashan, Isabel MacInnis, A D Miller, Lola D	85 64 100 105 99 100 105 105 105 105 105 105 105 105 105	90 82 95 37 64 22 77 85 54 50 54 50
Moore, C L Munro, H F Gray, Margaret MacKay, Annie McArthur, Olive E MacRae, Muriel Munro, Mossie M Murdoch, Louisa M Tanch, Jos H Young, Nettie Archibald, Carrie F Baillie, A G Campbell, Margaret Carruthers, C E Camperon, Bessie N Ferguson, Janie A Fraser, Katherine MacKay, Beatrice MacKay, Marion A McLeod, Bessie J MacIntosh, D S Maclanders, Jennie MacKenzie, Martha MacKenzie, Martha MacKenzie, Marjorie Maxwell, Lola McCann, Ledel	92 92 92 105 100 100 105 102 100 103 104 99 103 105 77 105 70 100 104 20 96 105 105 105	71 61 71 61 54 50 51 90 51 90 54 50 52 94 51 90 54 50 40 48 40 48 40 48 7 29 96 40 87 29 96 40 87 27 24 38 92 40 48 7 78 39 70 37 37 40 87 40 87	*Williamson Christina Wright, Bertha SOUTH. McLeod, J T McLeod, J D Roy, Frances B Stapleton. W C Allan, Margaret Brunt, B Gertrude Fraser, Attie Fraser, Marion L Fraser, Marion L Fraser, Marion L Fraser, Manie S Harlow, A C Hicks, Blanche Johnston, Isabel Laurie, Elizabeth MacKenzie, A S Macpherson, Eliza I MacLean, Cassie MacCilashan, Isabel MacInnis, A D Miller, Lola D Murray, Sadie A	85 64 100 105 99 100 105 105 105 105 105 105 105 105 105	90 82 95 37 64 22 77 85 54 50 41 52 54 50 54 50
Moore, C L Munro, H F Gray, Margaret MacKay, Annie McArthur, Olive E MacRae, Muriel Munro, Mossie M Murdoch, Louisa M Tanch, Jos H Young, Nettie Archibald, Ann Archibald, Carrie F Baillie, A G Campbell, Margaret Carruthers, C E Cameron, Bessie N Ferguson, Janie A Fraser, Katherine MacKay, Beatrice MacKay, Beatrice MacKay, Marjon A McLeod, Bessie J MacIntosh, D S Maclanders, Jennie MacKenzie, Martha MacKenzie, Martha MacKenzie, Marjorie Maxwell, Lola McCnnn, Isabel McDonald Marbal	92 92 92 105 100 100 100 105 102 100 103 104 104 99 103 105 77 105 70 100 104 20 96 105 105 105 105 105	71 61 71 61 54 50 51 90 51 90 54 50 52 94 51 90 54 50 40 48 40 48 40 48 40 87 29 96 40 87 27 24 38 92 40 87 40 87	*Williamson Christina Wright, Bertha SOUTH. McLeod, J T McLeod, J D Roy, Frances B Stapleton. W C Allan, Margaret Brunt, B Gertrude Fraser, Attie Fraser, Marion L Fraser, Winifred Fraser, Winifred Fraser, Winifred Fraser, Clara A Gould, Annie S Harlow, A C Hicks, Blanche Johnston, Isabel Laurie, Elizabeth MacKenzie, A S Macpherson, Eliza I MacLean, Cassie Mac(lashan, Isabel Maclnnis, A D Miller, Lola D Murray, Sadie A McLeod, J W	85 64 100 105 99 100 105 105 105 105 105 105 105 105 105	90 82 95 37 64 22 77 85 54 50 41 52 54 50 54 50
Moore, C L Munro, H F Gray, Margaret MacKay, Annie McArthur, Olive E MacRae, Muriel Munro, Mossie M Murdoch, Louisa M Tanch, Jos H Young, Nettie Archibald, Ann Archibald, Ann Archibald, Carrie F Baillie, A G Campbell, Margaret Carruthers, C E Cameron, Bessie N Ferguson, Janie A Fraser, Katherine MacKay, Beatrice MacKay, Marion A McLeod, Bessie J MacIntosh, D S Maclanders, Jennie MacKenzie, Martha MacKenzie, Martha MacKenzie, Marjorie Maxwell, Lola McCnnn, Isabel McDonald, Mabel Munro, Mordona	92 92 92 105 100 100 105 102 100 103 104 99 103 105 77 105 70 100 104 20 96 105 105 105	71 61 71 61 71 61 54 50 51 90 51 90 54 50 52 94 51 90 54 50 40 48 40 48 40 87 29 96 40 87 27 24 38 92 40 87 40 87 33 47 40 87 33 47 40 87 36 92 40 87	*Williamson Christina Wright, Bertha SOUTH. McLeod, J T McLeod, J D Roy, Frances B Stapleton. W C Allan, Margaret Brunt, B Gertrude Fraser, Attie Fraser, Marion L Fraser, Winifred Fraser, Mabel O Grant, Clara A Gould, Annie S Harlow, A C Hicks, Blanche Johnston, Isabel Laurie, Elizabeth MacKenzie, A S Macpherson, Eliza I MacLean, Cassie Mac(lashan, Isabel MacInis, A D Miller, Lola D Murray, Sadie A McLeod, J W Ogilvie, Mabel	85 64 100 105 99 100 105 105 105 105 105 105 105 105 105	90 82 95 37 64 22 77 85 54 50 54 50
Moore, C L Munro, H F Gray, Margaret MacKay, Annie McArthur, Olive E MacRae, Muriel Munro, Mossie M Murdoch, Louisa M Tanch, Jos H Young, Nettie Archibald, Ann Archibald, Ann Archibald, Carrie F Baillie, A G Campbell, Margaret Carruthers, C E Cameron, Bessie N Ferguson, Janie A Fraser, Katherine MacKay, Beatrice MacKay, Beatrice MacKay, Marion A McLeod, Bessie J MacIntosh, D S Maclanders, Jennie MacKenzie, Martha MacKenzie, Marjorie MacWell, Lola McCnnn, Isabel McDonald, Mabel Munro, Merdena A Munro, Merdena A	92 92 92 105 100 100 100 105 104 104 104 99 103 105 77 105 70 100 104 20 105 105 86 105 105 105 105	71 61 71 61 71 61 54 50 51 90 51 90 54 50 52 94 51 90 54 50 40 48 40 48 40 87 29 96 40 87 27 24 38 92 40 87 40 87 33 47 40 87 33 47 40 87 36 92 40 87	*Williamson Christina Wright, Bertha SOUTH. McLeod, J T McLeod, J D Roy, Frances B Stapleton, W C Allan, Margaret Brunt, B Gertrude Fraser, Attie Fraser, Marion L Fraser, Winifred Fraser, Marion L Grant, Clara A Gould, Annie S Harlow, A C Hicks, Blanche Johnston, Isabel Laurie, Elizabeth MacKenzie, A S Macpherson, Eliza I MacLean, Cassie Mac(lashan, Isabel Maclnis, A D Miller, Lola D Murray, Sadie A McLeod, J W Ogilvie, Mabel Reeves, Annie W	85 64 100 105 99 100 105 105 105 105 105 105 105 105 105	90 82 95 37 64 22 77 85 54 50 41 52 54 50 54 50
Moore, C L Munro, H F Gray, Margaret MacKay, Annie McArthur, Olive E MacRae, Muriel Munro, Mossie M Murdoch, Louisa M Tanch, Jos H Young, Nettie Archibald, Carrie F Baillie, A G Campbell, Margaret Carruthers, C E Cameron, Bessie N Ferguson, Janie A Fraser, Katherine MacKay, Beatrice MacKay, Barion A McLeod, Bessie J MacIntosh, D S MacIntosh, D S MacIntosh, D S MacIntosh, D S MacAnders, Jennie MacKenzie, Martha MacKenzie, Marjorie Maxwell, Lola McConn, Isabel McDonald, Mabel Munro, Merdena A Munro, Margaret A Murro, Chairtice	92 92 92 105 100 100 100 105 102 100 103 104 99 103 105 77 105 70 100 102 96 105 105 86 105 100 105 105	71 61 71 61 54 50 51 90 51 90 54 50 40 48 40 48 40 09 40 87 27 24 38 92 40 48 7 78 39 70 37 37 40 87 40 87 40 87 40 87 40 87 40 87 40 87	*Williamson Christina Wright, Bertha SOUTH. McLeod, J T McLeod, J D Roy, Frances B Stapleton, W C Allan, Margaret Brunt, B Gertrude Fraser, Attie Fraser, Marion L Fraser, Winifred Fraser, Marion L Grant, Clara A Gould, Annie S Harlow, A C Hicks, Blanche Johnston, Isabel Laurie, Elizabeth MacKenzie, A S Macpherson, Eliza I MacLean, Cassie Mac(lashan, Isabel Maclnis, A D Miller, Lola D Murray, Sadie A McLeod, J W Ogilvie, Mabel Reeves, Annie W	100 105 99 100 105 105 105 105 105 105 105 105 105	90 82 95 37 64 22 77 85 54 50 54 50
Moore, C L Munro, H F Gray, Margaret MacKay, Annie McArthur, Olive E MacRae, Muriel Munro, Mossie M Murdoch, Louisa M Tanch, Jos H Young, Nettie Archibald, Ann Archibald, Carrie F Baillie, A G Campbell, Margaret Carruthers, C E Cameron, Bessie N Ferguson, Janie A Fraser, Katherine MacKay, Beatrice MacKay, Beatrice MacKay, Beatrice MacKay, Beatrice MacKay, Barine MacKay, Barine MacKenzie, Martha MacKenzie, Martha MacKenzie, Martha MacKenzie, Martha MacKenzie, Marjorie Maxwell, Lola McConn, Isabel McDonald, Mabel Munro, Merdena A Munro, Margaret A Murray, Christina Murray, Christina Murray, Christina	92 92 92 105 100 100 100 103 104 104 99 103 105 77 105 70 100 104 20 105 105 105 105 105 105 105 105 105 10	71 61 71 61 51 90 51 90 51 90 54 50 40 48 40 48 40 48 40 87 29 96 40 88 7 24 38 92 40 48 7 78 39 70 87 37 40 87 40 87 40 87 40 87 40 87 40 87 40 87 40 87 40 87 40 87	*Williamson Christina Wright, Bertha SOUTH. McLeod, J T McLeod, J D Roy, Frances B Stapleton. W C Allan, Margaret Brunt, B Gertrude Fraser, Attie Fraser, Marion L Fraser, Marion L Fraser, Marion L Grant, Clara A Gould, Annie S Harlow, A C Hicks, Blanche Johnston, Isabel Laurie, Elizabeth MacKenzie, A S Macpherson, Eliza I MacLean, Cassie Mac(lashan, Isabel Maclhashan, Isabel Maclinis, A D Miller, Lola D Murray, Sadie A McLeod, J W Ogilvie, Mabel Reeves, Annie W Thompson, Elizabeth	85 64 100 105 99 100 105 105 105 105 105 105 105 105 105	90 82 95 37 64 22 77 85 54 50 41 52 54 50 54 50
Moore, C L Munro, H F Gray, Margaret MacKay, Annie McArthur, Olive E MacRae, Muriel Munro, Mossie M Murdoch, Louisa M Tanch, Jos H Young, Nettie Archibald, Ann Archibald, Ann Archibald, Carrie F Baillie, A G Campbell, Margaret Carruthers, C E Cameron, Bessie N Ferguson, Janie A Fraser, Katherine MacKay, Beatrice MacKay, Beatrice MacKay, Marion A McLeod, Bessie J MacIntosh, D S Maclanders, Jennie MacKenzie, Martha MacKenzie, Marjorie MacWell, Lola McCnnn, Isabel McDonald, Mabel Munro, Merdena A Munro, Merdena A	92 92 92 105 100 100 100 105 102 100 103 104 99 103 105 77 105 70 100 102 96 105 105 86 105 100 105 105	71 61 71 61 54 50 51 90 51 90 54 50 40 48 40 48 40 09 40 87 27 24 38 92 40 48 7 78 39 70 37 37 40 87 40 87 40 87 40 87 40 87 40 87 40 87	*Williamson Christina Wright, Bertha SOUTH. McLeod, J T McLeod, J D Roy, Frances B Stapleton. W C Allan, Margaret Brunt, B Gertrude Fraser, Attie Fraser, Marion L Fraser, Marion L Fraser, Marion L Fraser, Marion L Fraser, Mahel O Grant, Clara A Gould, Annie S Harlow, A C Hicks, Blanche Johnston, Isabel Laurie, Elizabeth MacKenzie, A S Macpherson, Eliza I MacLean, Cassie MacGlashan, Isabel MacInnis, A D Miller, Lola D Murray, Sadie A McLeod, J W Ogilvie, Mabel Reeves, Annie W Thompson, Elizabeth Weir, Elizabeth	100 105 99 100 105 105 105 105 105 105 105 105 105	90 82 95 37 64 22 77 85 54 50 54 50

		i			
Bannerman, Margaret	105	40 87	Matheson, Maud	55	14 26
Ballantyne, Jean V	88	34 25	*MacTavish, Elizabeth	53	18 33
Boutillier, May	105	40 87	MacLellan, Elizabeth	105	27 25
Boutillier, Eunice	100	38 92	McMillan, Maggie J	102	26 47
Cameron, Mary M	69	26 85	McLeod, Mabel H	105	27 25
Cunningham, Leah	105	40 87	MacKenzie, Emma S	65	16 86
Cunningham, Dolina	57	22 19	McDonald, Anna	42	10 90
Chisholm, Marianne	105	40 87	Macfarlane, Florence	47	12 19°
Cameron, Olive	105	40 87	*Rector, Anna M	77	26 64
Chisholm, Mary M	48	18 67	Rogers, Marion	105	27 25
Fraser, Emily	105	40 87	Robertson, Margaret	105	27 25
Fraser, Maggie T	105	40 87	*Ross, Bella J	97	33 56
Gillis, Mary	104	40 48	*Reid, Anna M	56	19 37
Graham, Jean B	99	38 54	Ross, Isabel C	105	27 25
	104	40 48	Ross, Jessie	10	2 59
Grant, Katherine	31	12 06		94	24 39
Grant, Jean O	100	38 92	Sullivan, Martha Sutherland, Elizabeth	100	25 95
Gunn, Margaret	98	38 15	Sutherland, Elizabeth	100	210,00
Gunn, Helen	105	40 87			
Grant, Julia	100	38 92			
Haley, Mary	105		OHEIMIG		
Henderson, J W		40 87	, QUEENS.		
Munroe, Mary E	105	40 87	a 1 m		200 PO
MacDonald, Ada S	105	40 87	Creelman, W A	100	\$90 82
MacEwan, Mary C	94	36 59	Mullins, Jennie	100	77 85
MacArthur, Ethel	105	40 87	Bower, Ethel	103	53 46
McIntosh, Isabelle	105	40 87	Fiske, Cora	lv5	54 50
McIntosh, Miranda B	105	40 87	Morton, Beatrice	105	54 50
McLeod, Isabel J	105	40 87	Richardson, Ralph	105	54 50°
MacGillivray, Jennie R	105	40 87	Smith, Lizzie	100	51 90
McMillan, Anabelle	105	40 87	Baltzer, Mary	100	38 92
MacDonald, Margaret K	104	40 48	Eldridge, Grace	100	38 92:
MacDonald, Dolena	105	40 87	Freeman, Allene	76	29 57
McDonald, Annie C	105	40 87	Freeman, Blanche	105	40 87
MacGillivray, Allena	105	40 87	Freeman, Juna	105	40 87
Muckenzia Charletta	105	40 87	Freeman, Kate	85	33 08≎
MacKenzie, Charlotte	103			105	40 87
Matheson, Jessie M	95	36 98	Freeman, Nellie	105	40 87
Maxwell, Bessie B			Hagan, Lillian		38 92:
MacBean, Jennie	105	40 87	Hemeon, Nettie	100	40 87
McQuarrie, Martha	105	40 87	Huskins, Pearl	105	40 87
O'Neil, Annie H	105	49 87	Manthorne, Muriel	105	38 92
Patterson, Margaret	105	40 87	McLeod, Edith	100	38 73
Park, Marion	47	18 28	McDonald, Wilhemina	$99\frac{1}{2}$	40 87
Putnam, Bertha	4	1 56	Parke, Nellie	105	40 87
Russell, Martha	105	40 87	Remby, Lottie	105	27 25
Robertson, Edith	108	40 87	Feindel, Theresa	105	27 20
Stalker, Elizabeth	102	89 70	*Firth, Alice W	88	30 45
Sutherland, Jessie L		40 87	Forbes, Gertrude	105	27 25
Smith, Isabel	105	40 87	*Gross, Benlah	105	36 83
Smith, Christy A	100	38 92	Harlow, Vera	49	12 71
Thompson, Mary A	105	40 87	Hogg, Jennie	103	26 73
Turner Christena	105	40 87	Kempton, Jean	105	27 25
Wagner, Georgena	8 5	33 08	Kempton, Jessie	105	27 25
*Allan, Ethel	105	36 38	Letson, Marguerite	1021	26 60
	105	27 25	Munro, Effie	105	27 25
Archibald, Hattie Boutilier, Eliza	105	27 25	Parke, Robina	105	27 20
Ballantyne, Agnes W	65	16 86	*Shea, Minnie	104	35 98
Company Harris	103	26 73	*Smith, Henrietta	88	g() 4D
Cameron, Hannah	79	27 34	Swimm Manda		07 12
*Campbell, Beter			Swimm, Mande	1041	97 20
Cameron, Barbara	104	26 99 27 25	Taylor, Bessie	105	26 60
Cameron, Ethel	105		Wylde, Sara W	$102\frac{1}{2}$	<i>;</i>
Fraser Ida J.	105	27 25			,
Fraser, Esther C T	105	27 25	NORTH.		
*Fraser, Letitia	103	35 64	79		54 50
Gardner, Laura M	37	9 59	Freeman, Jessie E	105	40 87
Levdon, Sarah B	105	27 25	Cushing, Alice	105	40 87
Meikle, Maggle J	105	27 25	Cushing, Hilda	105	40 87
McLend, Jessie W	84	21 80	Cushing, Nina	105	38 92
McPhie, Janie C	108	27 25	Freeman, Ada T	100	30 24
= ==,		-	,		

John Andre	105	40 87	McLanders, Mamie	55	14 26
Johnson, Annis McGinty, Katherina	87	33 86	Macleod, Marie S	105	27 25
Ramey, Rebecca	104	40 48	McLeod, Dolena	78	20 24
Wentzell, Minnie	104	40 48	Macneil, Mary E	83	21 54
Crouse Cynthia	103	26 73	Morrison, Michael	105 105	27 25 27 25
Devine, Harriet	104	26 99	Murphy, Margaret A Murphy, Minnie E	105	27 25
Freeman, Grace	105	27 25	Nelson, Gustav A	100	25 95
reeman, Maud	105	27 25 13 67	O'Toole, Henrietta	105	27.25
Freeman, Nettie	39 <u>1</u> 85	29 41	Poirier, Jeffrey H	103	26 73
Holdright, Carl Rowter, Emily	55	19 03	Sampson, John W	105	27 2 5
Seamond, Ethel	83	28 72	Sr Marie Ste Firmine	105	27 25
McLeod, Annie	53	18 33	Sutherland, Daniel J	9	2 33
Lufts, Edna	93	24 13	Walker, Wallace R	105	27 25 18 16
Wessell, Laura	88	30 45	Wilson, Julia	70 88	30 45
Whitman, Lulu	105	27 25	*Bissett, Clarence W	95	32 87
		į	*McIntyre, Margaret L	105	36 83
		i	*MacKenzie, Teresa *Martell, Mary C	94	32 52
DICHMOND			*Mombourquette, Annie J	103	35 64
RICHMOND	•		*Morrison, Jessie A	93	32 18
Mandonald W A	105	95 37	*Sutherland, Donald A	105	$36\ 33$
Macdonald, W A Barrett, Teresa F	105	54 50	*Thibeau, Pcter	74	2561
Boyd, i hristina	105	54 70	*		
Campbell, D H	105	54 50			
Chiasson, Moses	105	54 50	OTTER DIDAY	17	
Doyle, Cecilia J M	105	54 50	SHELBURN	Hi.	
Ferguson, Wm H	105	54 50	Damas C S	98	\$ 89 00
Boyd, Laura E	105	40 87	Bruce C S Capstick, Frances	105	95 37
Burke, Eva M	105	40 87 40 87	Allen, Janie	55	28 54
Canovan, Annie E	105	40 87	Capstick, Grace	45	23 35
Doucet, M C	$\begin{array}{c} 105 \\ 105 \end{array}$	40 87	Locke, Cyril D	105	54 50
Johnstone, Mary C	105	40 87	MacGill, Lizzie P	100	51 90
Kemp, Hector F LeBlanc, Zabine Rose	105	40 87	Nickerson, M A	105	54 50
Mury, Henrietta	105	40 87	Allen, Mary V	£90	35 03
McKay, Luella B	105	40 87	Bangay, S.L.	105	40 87 40 87
MacKay, John F	105	40 87	Batton, Viola M	105 103	40 09
McKillop, Ewin D	105	40 87	Doleman, T W	103	3 89
MacKillop, ABB	103	40 09	Etherington, Lily	100	38 92
MacLeod, Tena H	105	40 87	Etherington, A A	105	40 87
McLeod, Peter A	. 98	88 15 40 87	Giffin, Grace M Holden, Annie P	105	40 87
Macneil, Minnie A	105 103	40 09	Hammond, H G	105	40 87
Macneil, Minnie P	105	40 87	Hardy, Ruby A	104	40 48
Macneil, Margaret MacRae, Lulu J	105	40 87	Lyle, Emily R	100	38 92
Major, William	96	37 76	MacAlpine, F D	105	40.67
Matheson, Elsie	105	40 87	MacKay, Maud A	105	40 87
Morrison, Annie	105	40 87	MacKay, Max B	105 105	40 87 40 87
murchison, John K	105	40 87	MacKay, Hattie	105	40 87
Nelson, J Scott	102	39 70	MacKenzie, E C	105	40 87
Sampson, Mary E	103	40 09 25 69	Martin, Kate L Page, Sidney M	105	40 87
Blanche : Sucherland, Blanche	66	40 87	Rawlings, Adine	105	40 87
White, Minnie M	105	24 39	Thomas, Elvah B	105	40 87
Oculon, Margaret	94 69	17 90	Turner, Flora A	105	40 87
Boudrot, Anna L	105	27 25	Barclay, J P	105	27 25
Brymer, Lottie M Crispo, Clotilda	83	21 54	*Bethune, Annie B	55	19 03
Deagle, Joseph	105	27 25	Bower, Edna G	95	24 65
Poucet, Alvena E	105	27 25	Doane, Estelle S	103	26 73
" UIBVEON, Tens. J	103	26 73	Downie, Eula M	102	26 47 07 95
oret. Charles J	102	26 47	Firth, Emily L	105	27.25 27.25
Vackson, Hanrietta E	86	22 32	Giffin, Brenda	105	27 20
Vackson, Annie .	84	21 80	Giffin, Flora M	105 .86	22 32
Langley, Harriet E	94	24 39	Harding Laura M Hardy, Bertha W	105	27 25
UUUUUU Maggie A	61	5 82	Harding, M I	105	27 25
McEachern, Lizzie A McKillop, Kenneth A	85	22 06 12 97	1 Carlia D	99	25 69
	50				

			1		
Lock, Louise M	105		McAulay, Christena J	105	40 87
MacKay, G A	103	26 73	McDonald, Louise	105	40 87
MacKay, Hattie MacKenna, Lulu	105 105	27 25 27 25	McLean, S Agnes	89	34 64
Mills, Mary E	102	26 47	McKenzie, Annie S McRae, Florence C	93	36 20
Purney, Helen J	105	27 25	McLeod, Mary	105 105	40 87 40 87
*Ringer, Chas H	34	11 77	McLeod, Alexandrina	105	40 87
Spanks, Carrie Z	20	5 18	Mattatal, Daisy	105	40 87
*Walsh, M M	104	35 98	McLeod, John D	105	40 87
D. L. D. T. V. (III O. V.			Murdock, George F	103	40 87
BARRINGTON.			McInnis, Dan F	105	40 87
Allen, Georgie W	105	\$54 50	McLennan, Dan A Nicholson, Daniel J	105	40 87
Doane, Edith	105	54 50	O'Brien, M Lawson	105 65	40 87 25 30
Dorman, Robert	105	54 5 0	Smith, Margaret	65	25 30 25 30
Fox, Arthur D	104	53 98	Watson, Ellie May	104	40 48
MacKay, Nettie	105	54 50	Watson, Henry A	105	40 87
MacKay, E W Martin, O M	105	54 50	Boyle, Katie A	105	27 25
Oulton, Millage	103½ 105	53 72 54 50	*Boyd, Cecilia M	69	23 88
Thorburn, E M	104	53 98	Doyle Mary J Fox, Frank B	105	27 25
Atwood, M L	103	40 09	McIver, Tena	94	24 39
Brannen, L M	105	40 87	Morrison, Annie M	100 105	25 95 27 25
Brown, Alice D	105	40 87	*McRae, Margaret	56	22 83
Christie, H E	105	. 40 87	McIver, Mary Anne	85	22 06
Decker, Chas E	105	40 87	*McKenzie, Eliza A	105	36 38
Hopkins, B L	105	40 87	McLean Myrtle D	103	26 73
Hopkins, A M Knowles, Ina	105 1 0 3	40 87	McDonald, Florence	105	27 25
Nickerson, L J	105	40 09 40 87	*Morrison, Johana B	100	34 60
Nickerson, C N	105	40 87	McDonald, Angus D *McLeod, M D	105 105	27 25 36 33
Nickerson, N G	105	40.87	McKay, William	105	27 25
Nickerson, S B	104	40 48	*McRitchie, Dan John	20	6 92
Nickerson, C L	55	21 4l	*McLeod, Dan A	105	36 33
Sutherland B	100	88 92	Rice, Gertrude L	105	27 25
Frefry, Katie C Thomson, C H	105 98	40 87	Smith, Mary A	105	27 25
Walker, B E	101	38 15 39 31	Stewart, Robert A	104	26 99
Atkinson, M E	105	27 25	*Scott, Mary Allice Smith, Cecilia M	87	80 10°
Black, Rosie C	64	22 14	Sutherland, Annie M	105 11	27 25 2 85
rowell, Hilda	105	27 25	*Thomas, Hilda C	95	32 87
Giffin, Ida M	104	35 98	Younge, Edgar	104	26 99
legg, A C Hopkins, E B	105	27 25			
eaman, D M	74 105	25 61	***************************************		
AacGray, F E	105	27 25 27 25	WADMON'S		
Vickerson, Eula	105	27 25	YARMOUT	н.	
Ross, Beulah B	105	27 25	Kempton, W F	100	90 82
waine, A O	105	27 25	Bingay, Jas H	1024	79 80
wanburg, Maria	105	27 25	Blackadar, G D	104	80 97
wanburg, N B	103	26 73	Wyman, H J	103	80 19
homas, H L	100	25 95	Bingay, N B	105	68 12
			Horner, A W	105	68 12
•			MacGray, M W Trask, Jas L	105	68 12
VICTORIA.			Tooker, Beatrice	104	67 47
			Allen, S B	2	1 30 54 50
Iacdonell, Pauline	105	\$95 37	Allen, E Chesley	105 105	54 50
ampbell, Lizzie M	105	54 50	Bond, Mary G	105	54 50
IcPherson, Minnie	105	54 50	Churchill, H W	105	81 75
IcLeod, Bessie McK IcDonald, M B	10	51 90	Churchill, Nelson	105	54 50
	105	54 50	Densmore, Flo	100	51 90°
		33 47	Ellenwood, M H	105	54 50
ameron, Annie M	86 105	40 97	Klock U I f		
ameron, Annie M artigan, Elizabeth	105	40 87	Fleet, Sarah J	105	54 50
ameron, Annie M artigan, Elizabeth ennedy, Christie B	$\begin{array}{c} 105 \\ 105 \end{array}$	40.87	Frost, Isabel F	105 105	54 5 0
ameron, Annie M artigan, Elizabeth	105		Fleet, Sarah J Frost, Isabel F Goodwin, E B Grierson, Jean	105	

Hopkins, M J	103	53 46	ARGYLE.		
Huestis, H A	105	54 50	P. L F. M.	105	0 E 4 E
enkins, E J	105	54 50	Baker, E M	105	\$54.5
Kenney, Laura	100	51 90	Mack, R T	105	54 5
MacGray, J D	56	29 06	Amiro, Lena B	105	40 8
MacLeod, A J	105	54 50	Amiro, Eva A	105	40 8
Moses, Etta F	105	54 50	Amiro, Alfred A	105	40 8
Moses, Judson A	105	54 5 0	Bourque, Eliz	105	40 8
Patten, Mabel E	105	54 5 0	Brannen, W E	105	40 8
Phillips, ER	99	51 38	Brannen, G	1031	40 2
Raymond, L	105	54 50	Churchill, Gordon	105	40 8
cott, Anna	105	54 50	Corning, N R	105	40 8
Smith, L G	105	54 50	Crosby, M. P	74	28 8
Chorburn, L M	105	54 50	D'Eon, Octave	89	34 6
Wyman, E B	105	54 50	D'Eon, L F	105	40 8
Allen, Francis L	56	21 80	Doucet, Emily	105	40
Brown, Maud S	100	38 92	D'Entremont, M A	10	3 8
Bryant, Arletta	104	40 48	Frost, C W	105	40
Chipman, Agnes J	105	40 87	Goodwin, G E	105	40
Crosby, Jessie H	20	7 78	Hopkins, K M	105	40
Crosby, Mildred	105	40 87	Knowles, Mary L	99	38
Crosby Lenna M	105	40 87	Melanson, B E	95	36
Crosby, Mary E	104	40 48	MacCarthy, E L	101	- 39
Delamere, S.P.	105	40 87	Moses, Agnes	87	33
Doane, Lora H	66	25 69	Paten, Flo H	105	40
Dunland A 337	98	38 15	Pothier, A C	105	40
Durland, A W	105	40 87	Pothier, T E	105	40
Eaton, Bertha M	105	40 87	Robicheau, M T	105	40
Frost, Georgie B	102	39 70	Scott, Martha	86	33
Goudey, L Ada	105	40 87	Shand, C E	105	40
Hamilton, J W	105	40 87	Sister Seraphin	105	40
Kean, Evelyn S	105	40 87	· · Dionysia	85	33
MacKay, Janet M	105	40 87	" Stanislaus	105	40
Moses, Della B	103	39 70	Titus, Lizzie T	105	40
Newcombe, B E		40 87	Amiro, RJ	1043	
Parker, Venie W	105		Amiro, CB	105	27
tatten Lon ()	105	40 87	Amiro, Estelle	105	27
Pennington, J G	80	81 14	Amiro, J L	100	25
CITY, Ludia S	105	40 87	Amiro, Teresa M	104	26
* latt. Ada. M	103	40 09	Babin, E L	105	27
Suith, Elsie B	105	40 87	*Belliveau, G A	105	36
William Murtle C	100	38 92		105	36
''Yman, Clara W	105	40 87	*Bourque, Constance	105	36.
******************************	105	27 25	*Bourque, M N	105	27
-vane. Lora H	39	10 11	Bourque, Philo	105	27
Concet. Marte A	35	12 11	Bourque, Rosie	100	25
4 cirnian K H	95	32 87	D'Entremont, C M	105	27
Lonergan M L	105	36 8 3	Duncanson, L L	96	33
WUSES, Minnie J	105	27 25	*Gavel, J J	32	ii
"ICKerson Nottio M	88	22 84	*Hamilton, J E	105	27
4 Grrv. ()ra. H	5 7	1972	Jeffrey, Mary B	105	. 27
- urney, Maria (†	105	27 25	LeBlanc, John B	71	18
TOTAL AUG P.	105	27 25	MacGinness, M A	105	
Roach, F.C	105	27 25	MacGray, Anna E	103	27
Rose, Ivan M	84	21 90	Manzar, G R	105	26
Swaine, M M	105	27 25	Pothier, Annie		27
, m m	100	•	Sister Alberta	10	. 2
			" Gonzaga	105	27
			Spinney, A.L.	69	17
			Thorburn, M A	105	27

Regulations of C. P. I. as amended up to March, 1907.

PROVINCIAL EXAMINATION OF HIGH SCHOOL STUDENTS.

"High School Students" shall be held to mean all who 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 the Common School course of Study, and are engaged in the study of subjects beyond Grade VIII.

83 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 Curriculum, to be known also as Grades IX, X, XI and XII respectively of the Public

Schools.

84. The examination sessions shall commence each day at nine o'clock a. m., for Grade XII on first Monday after 1st July, at the following stations: - Sydney, Antigonish, Pictou, Amherst, Truro, Halifax, Kentville, Liverpool and Yarmouth; for Grades XI, X and IX on the following Wednesday, and for "Minimum Professional Qualification" and "Supplementary" of public school teachers on the Saturday following; and shall be conducted according to instructions, under a Deputy-Examiner appointed by the Superintendent of Education, 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, Canso; 13, Chester; 14, Church Point; 15, Digby; 16, Glace Bay; 17, Great Village; 18, Guysboro; 19, Halifax; 20, Kentville; 21, Liverpool; 22, Lockeport; 23, Lunenburg; 24, Mabou; 25 Maitland; 26, Margaree Harbor; 27, Middle Musquodoboit; 28, Middleton; 29, New Glasgow; 30, North Sydney; 31, Oxford; 32, Parrsboro; 33, Pictou; 34, Port Hawkesbury; 35, Port Hood; 36, River John; 37, Sheet Harbor; 38, Shelburne; 39, Sherbrooke; 40, Springhill; 41, Stellarton; 42, St. Peter's; 43, Sydney; 44, Tatamagouche; 45, Truro; 46, Upper Stewiacke; 47, Westport; Westville; 49, Windsor; 50, Wolfville; 51, Yarmouth.

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 24th day of May.

(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 a candidate who has not pased Grade IX must have his application for X accompanied by a fee of one dollar; if he has passed neither IX nor X the application for XI must be accompanied by two dollars; and if he has passed neither IX, X nor XI the application for XII must be accompanied by three dollars. The candidates who are entitled to free examination are only those who pass the different grade examinations in consecutive order.

- (c) For the Teachers' Minimum Professional Qualification Examination a fee of two dollars is required; but it should not be forwarded with the application for it has been found more convenient to be paid to the Deputy-Examiner on the Saturday when the candidate presents himself for examination, the Deputy-Examiner transmitting the same to the Superintendent with his report.
- (d) The prescribed form of application, which can be freely obtained from the Education Department through the inspectors, shall contain a certificate which must be signed by a licensed teacher having at least the grade of scholarship applied for by the candidate, whose legal name must be carefully and fully written out. If the application is defective on account of the omission of the proper fee, or on account of the omission or incorrect statement of any fact called for in the prescribed form, the application is null and void; and even should the Deputy-Examiner admit the candidate provisionally to the examination, his papers may be intercepted at the Education Office.
- (e) When a candidate presents himself for examination, and his name is not found on the official list as having made regular application in due time, the Deputy-Examiner may admit him to the examination provisionally on his written statement that application was regularly made in due time and on the payment of one dollar, which are to be transmitted with the Deputy's report to the Superintendent; and if such candidate's statement is correct, that error being due to causes beyond his control, the dollar shall be returned. Providing there is sufficient accommodation, the Deputy-Examiner may admit any candidate on the payment of one dollar for Grade IX, X, XI, or XII (partial); and of two dollars for full Grade XII, in addition to the fees required under Reg. 85 (b) which must be paid before the candidate can claim examination of the papers.
- (f) For the convenience of those who have not passed Grade IX or X, or who having taken or passed either of them may not have made 40% on the Science paper of IX or the Science and Drawing papers of X, supplementary question papers on these subjects will be given as per time table on Saturday afternoon of Examination week. Candidates intending to take any of these papers should indicate the intention in the column of "remarks" in their application. The fee of one dollar for each such "supplementary" paper shall be paid the Deputy-Examiner with each answer paper as it is handed in to him at the end of the hour, for transmission to the Education Office.
- (g) The prescribed form of application is given in schedule B.
- 86. Each inspector shall forward, not later than June 1st, to the Superintendent of Education, a list of the applications received for each state of examination at each station within his division, on a form to be supplied from the Education office, transmitting therewith all moneys, having duly classified and checked the same in the form aforesaid.

- 87. The Deputy-Examiner, when authorized by the Superintendent of Education, shall have power to employ an assistant or assistants, who shall receive two dollars per day for the time so employed.
- 88. The Superintendent of Education shall have prepared and printed suitable examination questions for each Grade at each examination in accordance with the prescribed course of study, and shall also forward to each Deputy-Examiner a sufficient supply of the printed questions, together with copies of such rules and instructions as may be necessary for the due conduct of the examination.
 - 89. The maximum value of each paper shall be 100; and the numbered questions composing it shall be constructed with the intention of making each equal in value though not necessarily of equal difficulty. Thus, when 5 questions constitute one paper the value of each when answered accurately with reasonable fulness and in good form will be 20, no matter whether it should be easier or more difficult than its fellow questions
 - 90. Each examiner shall mark distinctly by coloured pencil or ink at the left hand margin of each question on the candidate's paper its value on the foregoing assumption; and shall sum up the total, placing it on the back of the sheet; and underneath, the number of misspelled or obscurely written words, which number is to be deducted from the total for a true value of the paper. Thus, should the sum of the marks of a paper be 54, and the misspelled or obscurely written words be 6, then the marks on the back would stand as follows: English Grammar [54—6]=48.
 - 91. To make a "High School Pass" in Grades IX, X and XI, the candidate must make, at least the *minimum aggregate* (400) of the grade on not less than eight papers with no subject below 25.

To make a "Teacher' Pass" the candidate must, in addition, have made, at least, 40 on each "imperative" subject in the course, up to and including that of the grade next below.

Candidates who have made a "High School Pass" can rank as having a "Teachers' Pass" by passing the supplementary examinations necessary.

92. To make a "High School Pass" in Grade XII, the candidate must make, at least, the minimum aggregate (1000) on the twenty subjects prescribed, with no paper below 25.

Instead of passing the full Grade XII syllabus by one examination on twenty or more subjects, the candidate may pass it by "partial" examinations which require a pass of at least fifty on every subject or paper under the following conditions: (1) By first making an aggregate of at least 600 on any ten or fewer papers; (2) by subsequently making an average of at least fifty per cent on each of the remaining papers on which a pass of fifty was not made at the first partial examination; (3) after which, if there should still remain some papers on which the candidate has not made the pass of fifty, the candidate may thereafter present himself for examination from year to year until he has made the

Pass of fifty on all. This third condition shall also be allowed to candidates who may have made an aggregate of 1000 on twenty or fewer papers, and to those who have already obtained Certificates of Grade XII (cl) or XII (sc), or a License of Class A. So long as the Council of Public Instruction deems the character of the examination on the subjects not materially changed, all the valuation marks 50 per cent. or above made on each subject at the said and following examinations, may be incorporated into a single Certificate, provided, at least 50 per cent. be made on each of the (twenty) subjects required for the Grades XII (cl) or XII (sc), or on each of the (thirty) subjects in the full course for XII (cl and sc).

- 98. Candidates failing to make a pass in the grade applied for may be ranked as making a pass in the next grade below, provided 75 per cent. of the *minima* be made; and as making a pass on the grade second below, provided 50 per cent. of the *minima* be made.
- 94. 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 head title "High School Certificate," showing the grade obtained under the arms of the Education Department; but the other certificates with examination records, even should they refer to but one subject, shall be equally valid for such facts as they show.
- 95. Candidates who are passing the various grades in consecutive order shall be admitted free to the regular Provincial High School Examination, provided their application and procedure have been regular. In all other cases a scale of fees shall be fixed to cover the cost of examination and extra labor likely to be incurred.
- 96. The subjects, number and values of the papers for the different examinations, and the general scope of examination questions, are indicated generally by the texts named in the prescribed High School curriculum. Examination may demand description by drawing as well as by writing in all grades.

PROVINCIAL EXAMINATION RULES.

97. No envelopes shall be used to enclose papers. One hour is the maximum time allowed for writing each paper. One sheet of foolscap will therefore hold all that will be necessary to be written on any paper if it is properly put down. The following rules must be exactly observed:

hour before the time set for the first paper of the grade for which they are to write, at which time the deputy examiner shall give each a seat, and a number shall represent the candidate's name, and must therefore be neither forgotten nor changed. The candidates who present themselves shall be numbered from 1 onwards in consecutive order (without a hiatus for absent applicants, who cannot be admitted after the numbering), beginning with the A's, then coming to the B's C's and D's in order. Candidates for "Supplementary" papers need not be present at the opening session if they have sent in their applications and the titles of 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 the right to claim admission to the examination room, and any candidate leaving the room during the progress of any examination must first send his or her paper to the deputy examiner, and not return until the beginning of the next paper.
- (3) Candidates shall provide themselves with (for their own exclusive use), pens, pencils, mathematical instruments, rulers, ink, blotting-paper, and a supply of good, heavy foolscap paper of the size thirteen inches by eight.
- (4) Each candidate's paper must consist of one sheet of such foolscap, which may be written on both sides, and must contain no separate sheets or portions of sheets unless inseparably attached so as to form one paper. Neat writing and clear, concise answers are much more likely to secure high value from examiners than extent of space covered or a multiplicity of words.
- (5) Each such paper must be exactly folded. 1st, by doubling, bottom to top of page, pressing the fold (paper now 6½ by 8 inches); 2nd, by doubling again in the same direction, pressing the fold flat so as to give the size of 3½ x 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 an inch from its upper margin. Within this space, 3½ inches by ½ inch, there must be written in very distinct characters, 1st, the letter indicating the grade; 2nd, the candidate's number, and 3rd, a vacant parenthesis of at least one inch, within which the deputy examiner shall afterwards place the private symbol indicating the station. Immediately underneath this space and close to it should be neatly written the title or subject of the paper.

For example, candidate No. 18 writing for B (Grade XI.) on Algebra should endorse his paper as shown below :---



- (7.) The subject title, grade and candidate's No. may 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 corrections or cancelling of errors will allow a paper to stand as high in the estimation of the examiner as if half the time were lost in copying it. Answers or results without the written work necessary to find them will be assumed to be only guesses, and will be valued accordingly.
- (10.) Candidates are forbidden to ask questions of the deputy examiner with respect to typographical or other errors which may sometimes occur in examination questions. examiner of the paper alone will be the judge of the caudidate's ability as indicated by his treatment of the error. No candidate will suffer for a blunder not his own.
- (11.) Candidates desiring to speak with the deputy examiner will hold up the hand. Communication between condidates at examination, even to the extent of passing a ruler or making signs, is a violation of the rules. Any such necessary communication can be held through the deputy examiner only.

- (12.) Candidates should remember that the deputy examiner cannot overlook a suspected violation of the rules of examination without violation of his oath of office. No consideration of personal friendship or pity can therefore be expected to shield the guilty or negligent.
- (13.) Candidates intending to apply for license upon a record made at this examination, should fill in a form of application for such license as is expected. The deputy examiner is provided with blank forms for those who do not already have them. The applicant can have his certificate of age and character correctly made out and signed, and should note on the application, 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 can 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:

Examination	Station:	. Date	e	July,	190
	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 memo. or certificate is to be sent.

98. The time table of the examinations shall be as in the following form, the details being changed from year to year to suit the syllabus:

TIME TABLE.

Provincial Examinations, Beginning 1st July, 1907.						
	TIME. GRADE A.		COUNTY ACADEMY ENTRANCE. Beginning 27th June.			
Monday.	9.00 to 10.00 10.10 " 11.10 11.15 " 12.15	9.00 to 10.00 Roman History. 10.10 " 11.10 Chemistry.		Thursday, 28th June. English. Mathematics.		
	P. M. 2.00 to 8,00 3.10 " 4,10 4,15 " 5,15	2.00 to 3.00 Greek History. 3.10 4.10 Botany.		Mathematics.		
TURBDAY.	9.00 to 10.00 10.10 " 11.10 11.15 " 12.15	Tacitus, Zoölogy, Navigation,	Friday, 20th June.		Drawing, &c. Geography and History.	
Tr.	2.00 to 3.00 3.10 " 4.10 4.15 " 5.15	Æschylus. Sanitary Science, Astronomy.	FRIDAY, 2		General Knowledge	
	8,30 to 9.00		Seating of Grades B, C and D.			
ESDAT.	9.00 to 10.00 10.10 " 11.10 11.15 " 12.15	Algebra. Latin Composition. French Authors.	Algebra. Latin Composition.		Algebra, Latin,	Algebra. Latin.
WEDNESDAY.	P. M. 2.00 to 3.00 3.10 " 4.10 4.15 " 5.15	English Language. French Composition. Geology.	English Language. French. Greek Authors.		English Language, French.	English Lang. French.
THURSDAY.	9.00 to 10.00 10.10 " 11.10 11.15 " 12.15	Geometry. Greek Composition. Cloero.	Geometry. Latin Authors,		Geometry.	Geometry.
THU	2.00 to 3.00 3.10 " 4.10 4.15 " 5.15	Physics. German Composition. Vergil.	Physics. German. Greek Composition.		Science. German.	Science.
FRIDAY.	9.00 to 10.00 10.10 " 11.10 11.15 " 12.15	Trigonometry Psychology. Horace.	Prac. Math, Physiology.		Arithmetic, Drawing and B. K.	Arithmetic. Drawing & B. K.
	4.10	British History. English Literature, German Authors.	Geo. and History. English Grammar.		Geo. and History, English Grammar,	Geo. and Hist. Eng. Grammar.
SATURDAY.	M. P. Q. EXAMINATION. 9.00 to 10.00 0.10 " 11.10 School Law and Management. 11.15 " 12.18 Theory and Practice of Teaching. M. P. Q. EXAMINATION. SUPPLEMENTARY EXAM. 2.00 to 3.00 3.10 " 4.10 " 10" Science. "C" Drawing and B. K. 10" 801ence. "C" Solence.					

OPTIONAL EXAMINATION IN MUSIC, ETc.

(u) At the County Academy Entrance Examination and the Teachers' Minimum Professional Qualification Examination, candidates who have taken London Tonic Sol-Fa certificates can for the question in music substitute their certificates for which values will be given as follows: For "Junior" certificate. 10; for "Elementary "certificate, 15; and for "Intermediate" certificate, 20—the last two for M. P. Q. only.

(b) The candidate will enter in a parenthesis as an answer to the No. of the question

on music in his examination paper, the words "Junior certificate," or "Elementary certificate," or "Intermediate certificate," as a reference to the fact that such a certificate has been handed to the deputy examiner, bearing on its back the name, and address, and examination number, and station of the candidate plainly indorsed

upon it.

(c) The certificates will be received by the deputy examiner, compared with his list to verify the correctness of the indorsation by the candidates, then enclosed in one envelope addressed, in the case of the Academy Entrance, to the Principal, and in the case of the M. P. Q. to the Superintendent of Education, who, after perusal, shall return them to the respective candidates.

The Principal or the Superintendent, as the case may be, shall then indorse 10, 15 or 20 points (according to a) on the examiner's report and on the candidate's paper below the general valuation number, and add the two together for the total value of

the paper.
(e) To prevent the possibility of two values being given to the question by accident. the examiner of a paper in which a certificate is substituted for the question, shall mark the general value of the paper with an asterisk, both on the paper and on his

(f) No certificate from any local examiner of the London Tonic Sol-Fa College shall be accepted, unless the examiner has prevously given a satisfactory proof to the Principal or Superintendent that he or she has been duly appointed as local examiner for the grade of certificate in question by the authorities of the said College.

(9) At the County Academy Entrance Examination the certificate of Attendance for a year at a Manual Training School, or a Domestic Science School, can be accepted for the answer to a question on the subject in like manner as the "Junior" Tonic Sol-Fa certificate—value 10.

LICENSING OF TEACHERS.

No person can, under any circumstances, be a teacher in a public school entitled odraw public money on his or her account without a License from the Council of Public Instruction. Before obtaining such a license a candidate must obtain, first, a certificate of the prescribed GRADE of Scholarship at the Provincial High School Examination, with a Teacher's Pass" in each of the lower grades; second, the prescribed certificate of profes-tional RANK as a teacher, either from the Provincial M. P. Q. Examination or the Provincial Normal School, and third, the prescribed certificate of age and character from a minister of religion or two Justices of the Peace. The value of a License is distinguished by the term CLASS; of scholarship by the term GRADE; of professional skill by the term RANE. The following collocation of the terms used will help to explain their significance and relation :

	General						
•		" Teacher's	(1) Pass" Scho	larship	Normal Diple	oma. Age	(3) e & Character
Chan	A (cl)	" "	.Grade XI. .Grade XII	l (cl) [(sc)	Academic R Academic R Academic R	Rank 20	years, &c. years, &c.
CHARR	1B C	46	.Grade XI		First Rank Second Ran Third Rank	13	years, &c.
Class	D (Prov.)	4	. Grade IX	.	Third twans	M. P. Q. 1	gears, &c. 6 years, &c.

Exact requirements in the following regulations:-

As the ordinary or "high school pass" may be taken by a student with little or knowledge of some of the subjects "imperative" for teachers (for the "high school pass"

is awarded on an average of 50% on any eight papers of a grade, provided none of the eight is below 25%), the following regulation is made to control graduation from the Normal

No diploma of the Provincial Normal School shall be awarded any. candidate who is found defective (below 40%) in the scholarship of any imperative subject of the Provincial Course of Study up to and including the corresponding grade, until the Faculty is satisfied that creditable proficiency has been made in each such subject.

When a teacher obtains a teacher's license without graduation from the Provincial Normal School, it can be only of a class one degree lower than the "teacher's pass" grade of scholarship.

statement explains the principle in detail:-

(a) A Class D License cannot be awarded to any one who has not been estimated as high as 40 per cent. on each "imperative" subject of the grade D High School Course, by Provincial Examiners.

(b) A Class U License in like manner requires 40 per cent. on each "imperative"

subject of grades D and C.

(c) A Class B License in like manner requires 40 per cent. on each "imperative" of grades D, C and B.

(d) A Class A License in like manner requires 50 per cent. on each "imperative" in grades D, C, B, and A (classical and scientific).

When the "teacher's pass" has not been made by a candidate on the lower grades in order, the following equivalents are allowed:

(a) 40 per cent on each of the "imperatives" of grade C shall be considered the equivalent of 40 per cent on each of grade D, except the Science paper.

(b) 40 per cent, on each of the "imperatives" of Grade B shall be considered the equivalent of 40 per cent, on each subject of the science of t

equivalent of 40 per cent. on each subject of the lower grades, except the Science of D, and the Science and Drawing papers of C. The same principle shall apply of D, and the Science and Drawing papers of C. to grade A marks.

(c) Opportunity is given on Saturday afternoon to take supplementary examinations on the Science of D, and the Science, Drawing and Book keeping of C.

104. No certificate, combination of certificates nor any other qualification except the possession of a lawfully procured License gives a person authority to teach under the law in a public school. The regula-

tions 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 behaviour of the holder and shall be granted on the fulfilment of the three conditions more fully specified in the succeeding regulations, namely: the presentation of the prescribed proof of (1) age and character. (2) scholarship, and (3) professional skill

There shall be four classes of such licenses, which may be

designated as follows:-

Class A (cl. & sc.), A (cl.) or A (sc.)—Academic (classical and scientific). Academic (classical) or Academic (scientific).

Class B.—First Class. Class C—Second (lass. Class D—Third Class.

The certificate of professional qualification or skill shall be (a) the academic, first, second or third RANK classification by the Normal School, or (h) the minimum (which shall rank one degree lower than the normal), and shall be the first, second or third rank pass on the following papers written on the Saturday of the Provincial Examination week. (1) School Law and Management, value 100; (2) Theory and Practice of Teaching, value 100; and (3) Hygiene and Temperance, value 100; First rank pass: an aggregate of 200 with no paper below 50. Second rank pass: 150 with no paper below 40. Third rank pass: 100 with no paper below 30.

108. The Provincial Normal School at Truro is recognized 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 may be satisfactorily shown to the Council to be at least the equivalent of those of the Provincial Normal School, may be accepted when qualified by the addition of the two following conditions: (a) a pass certificate of the Provincial 'minimum" professional qualification examination of the corresponding rank, and (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.

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 under any circumstances shall be issued until after the lapse of a full year from the date of the certificate of high school grade required for the said license.

109. 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, through the inspectors or the Principal of the Normal School:

FORM OF APPLICATION FOR A TEACHER'S LICENSE.

То	
Inspector of Schools,	Division No
compliance with the conditions prescribed, nar I. The prescribed certificate of age and true. II. My High School certificate of Provinc Examination Station as No	mety: character hereto attached, which I affirm to cial Gradeobtained at ar 190 (Further information below.)
(Name in fu	11.)
(1	Post Office address)
Date	(County)
CERTIFICATE OF AGI	R AND CHARACTER.
named candidate for a Teacher's License	
-	mitteni or no deem book is good and one to instifu

Christian morality, and	d the highest regard	e a respect for religion and the principles of for truth, justice, love of country, loyalty, ugality, chastity, temperance and all other
		(Name and title.)
		(Church or Parish.) (P. O. Address.)
"Minister of Religion," the signature on the sec	the word '' I'' should	l by "two Justices of the Peace" instead of a be changed by the pen into "we," and after Church or Parish" may be cancelled by
equivalent to its present Examination Station, the entered, but shall be end	ation. When the can he $grade$ or $rank$ of closed in a parenthesis,	l certificate II. above will be considered as didate makes application at the High School certificate written for and expected may be which should be understood to indicate the
expected result of the Ex The correct quotation School Diploma in III. al Any certificate from Education office, must	namination. on of the Provincial Move, will be considere m Normal Schools, et	M. P. Q. Certificate or the Provincial Normal d as equivalent to its presentation. c., which are not regularly recorded in the cation as evidence of the correctness of the
quotation.	FURTHER INFORMATIO	N FROM APPLICANT.
1. Class of license a 2. University Degr information candidate m	rees, Scholarship, Prof	essional Training, experience, or any ther
•••••	••••••••	
3. Provincial High above, whether a "High that the candidate made	School Examinations	s taken in addition to that specified in II.
On Grade XII svila	hus at Evamination S	tationYear
" XI.	16 66	
" X.	**	
	"	***************************************
GENERAL OR SPECIAL	L Indorsation or R Normal	EMARKS BY INSPECTOR (OR PRINCIPAL OF SCHOOL).
	• • • • • • • • • • • • • • • • • • • •	
••••••		
Place and date	***************	lnspector.
(1) A certificate sig Peace, as in the pre- full age of twenty mentioned in the st A certificate of Ac Normal School [for (cl. and sc.) with a School course not	gned by a Ministe oceding form to the years, and capab tatute. (2) A past cademic first rank r which may be s 50% "pass" on ex- covered in Grade	License the three conditions are: r of Religion or two Justices of the e effect that the candidate is of the ble of fulfilling the duties specially ss certificate of the Grade XII. (3) r professional qualification from a substituted a Provincial Grade XII. ach imperative subject of the High XII., and a first rank M. P. Q. (no

paper below 50), and at least two years, successful teaching, one of which must be as a first class teacher in a superior school].

111. For a First Class or B License the three conditions are:—(1) A certificate of the full age of nineteen years and moral character as in the foregoing regulation. (2) A pass certificate of Grade XI. (3) A

certificate of first rank professional qualification from a Normal School or a "Teacher's pass" certificate of Grade XII with the first rank mini-

mum professional qualification.

112. For a Second class or C License the three conditions are:—
(1) A certificate of the full age of eighteen years and moral character as in the foregoing Regulation. (2) A pass certificate of Grade X. (3)
(A) certificate of second rank professional qualification from a Normal School or a "Teacher's pass" certificate of Grade XI with the second rank minimum professional qualification.

113. For a Third Class or D License the three conditions are:—(1) A certificate of the full age of seventeen years and moral character as in the foregoing Regulation. (2. A pass certificate of Grade IX. (3) A certificate of third rank professional qualification from a Normal School, or a "Teacher's pass" certificate of Grade X with the third rank mini-

anum professional qualification.

TEMPORARY LICENSE.

for one year may be granted (but not previous to the 15th day of September in any school year) on regular application when the following four conditions are fulfilled:—(1) A certificate of the full age of sixteen years and moral character as in the foregoing Regulation. (2) A pass certificate of at least Grade IX as in the foregoing Regulation. (3) The third rank minimum professional 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 said school that, although reasonable effort was made to employ a regular teacher of permanent class, one could not be obtained, and that the candidate would be acceptable to the school section as a teacher for the year. Such License can only be re-issued for another year when the candidate has demonstrated an advance of grade or rank in his qualifications at a subsequent Provincial Examination.

SPECIAL SCHOOL DAYS.

139. It has been found very inspiring to devote certain days entirely to some special object, the demonstrative effect of which can be made much more intensive than that of the same time broken up into a routine of short fragmentary lessons spread over a few weeks. Such occasions when managed properly, are of more value in teaching effect than the ordinary routine day. In fact, they can accomplish in some cases what could never be accomplished so effectively in any other way. They are by no means helidays. Far otherwise, for they involve extra labor on the part of the teacher, and generally also on the part of the Pupil.

140. Arbor Day.—To call special attention to the importance of the proper management and cultivation of our forests, to the value of the afforestation of lands which cannot be so productive in any other manner, and to the bearing of forestry on the rainfall, drainage, climatic and industrial condition of the province, to encourage the proper adornment of the school grounds, to cultivate a taste for the beautiful in nature, and to give some practical and objective lessons in tree planting, and the study of tree growth,—for such objects the following directions

are given:

- (a) On such day of May as according to season, weather or other circumstances may be deemed most suitable, trustees are authorized to have substituted for the regular school exercises of pupils, the planting by the latter of trees, shrubs and flowers, on the groundssurrounding the school house. The day devoted to this purpose shall be known and entered in the register as "Arbor Day," and when duly observed full credit will be given for it in the apportionment of public funds, on the basis of the actual attendance of pupils as ascertained by roll call at the beginning of the exercises or other convenient time during their progress. Additional value and interest should be imparted by mingling with the practical duties of the occasion short addresses from the teacher and other competent persons on the æsthetic and economic importance of arboriculture. During their summer visitation, inspectors shall take note of all schools in connection with which "Arbor Day" has been observed.
- (b) Teachers who have been able to observe this day in a useful manner are recommended to make a special report on the same within a week to the inspector, specifying the work done on the occasion, and its prospective influence on the section. From these statements inspectors can have all the details necessary for their annual reports to the Superintendent of Education.
- (c) There will be found subjoined some practical suggestions which will be serviceable to those who wish to make the occasion a really profitable one.

(1) In selecting trees, it is well to avoid those that bear flowers or edible fruits, as such in the flowering and fruiting seasons are apt to meet with injury from ignorant or mischievous passers by, and to offer temptation to the pupils. Butternus and horse chestnuts are not to be commended as shade trees. The balsam fir is objectionable from the liability of its balsam to stain the hands and clothing. Deciduous or broad leaved trees are easily grown, their fibrous roots rendering transplanting a comparatively simple operation. If care is taken, the young saplings of the elm, maple and ash, as found in the undergrowth of the forest, can be transplanted without difficulty.

(2) No school grounds should be without a suitable number and variety of the standard deciduous trees. However, during the winter season these are bare and unattractive, and afford little or no shelter. On the other hand, evergreens, such as spruces, pines, hemlocks and cedars, retain their foliage and provide a shelter as useful in winter as it is grateful in the standard according to the standard decided according to the standar summer. Trees should always be planted according to a definite plan, being arranged to the building and fences. They should not be placed so near the school house asto interfere with the free play of light and air.

(3) Our native trees grow so freely in the woods that we are apt to suppose they are merely to be taken up by the roots and transplanted, to start at once into a vigorous growth This is a mistake. Great care should be taken in digging up the trees to preserve the fibrous roots; long runners should be cut across with a sharp knife, and not torn. salt trees thrive best in well-drained soil, varying from sandy loam to clay. A clay loam suits all descriptions. The holes for the trees should always be made before the trees are brought to the ground, and should be too large rather than too small. In filling in, the better soil from near the surface should be returned first, so as to be nearer the roots, but where the soil is at all sterile, and generally, there should be put below and around the roots some well-rotted compost, mixed with sand, and sandy loam, in order to promote the growth of the roetlets. In setting the tree it should be placed a little deeper than it stood before, and the roots should be so spread out that none are doubled. When finally planted the tree should be tied to a stout stick in such a way as to prevent chafing the bark. Some mulch or stable litter should then be thrown around the stem to prevent the roots from drought. Stirring the ground is preferred by some cultivators to mulching In transplanting evergreens, the roots should not be exposed to air or light—especially the heat of the sun-more than can be helped.

Several varieties of shrubs planted together in clumps produce a very pleasing effect, while the care of judiciously arranged flower beds will be to the children an important

mean of education.

141. Empire Day.

(a) The establishment of this day followed a recommendation of the Dominion Educational Association at its third triennial convention which met in Halifax. The Council of Public Instruction of Nova Scotia adopted the recommendation immediately after, on the 18th of August, 1898, appointing as "Empire Day" the school day preceding the holiday commemorating the anniversary of the birthday of Queen Victoria, under whose reign the Empire so widely and harmoniously developed. This was the first institution of Empire Day by any Education Department.

HISTORICAL NOTE.—On the 2nd of December, 1897, Mrs. Clementina Fessenden, of Hamilton, Ontario, addressed a committee of the local school board on the subject of a patriotic day. Subsequently this and other school boards adopted her suggestion that the Education Department of Ontario be asked to set apart one day each year as a patriotic day. The Hon G. W. Ross, then Minister of Education, arranged, after correspondence with the Superintendent in Nova Scotia, then President of the Dominion Educational Association, that it should be proposed to the D. E. A. to recommend that a day should be fixed for the day before Victoria Day, the 24th of May, which is a statutory holiday in all Canadian schools, and that it should be called "Empire Day." The President, in his opening address, on the 2nd of August, 1898, in the Academy of Music, Halifax, presented the proposal, and read the absent Hon. Minister's plea. The convention accordingly before its close, on the 5th August, recommended "Empire Day" to the several education departments of the Dominion. It was promptly adopted by that of Nova Scotia indicated above, with the following instructions to the public schools.

(b) The object of the day is the development of the Empire idea with power, by a more dramatic and impressive demonstration than would be possible in the routine method of teaching necessarily characteristic of the most of the work of the school. No set method is prescribed. Local orators may be utilized in short and appropriate addresses to the pupils and their parents. Teachers and pupils should take part in as effective and in as varied manners as possible from year to year. As a rule it is preferable to have it an exercise open to the public of the locality in the afternoon, the forenoon being devoted to phases best treated in the school room. It is one of the days when the school flag should be flying.

(c) The exercises should not be directed to develop boastfulness in the greatness of the Empire. They should be a study of the causes why it became great, and how it may continue to be great; of the history of the rise, growth and alliance of its different peoples, of the evolution of the elastic system of self-government, and of the development of that spirit of Empire unity which is a new thing in history as the Empire's extent is in geography. And most important of all the exercises should be an inspiration to stimulate all to seek how they may further reinforce the good tendencies and bind the distant members of the Empire more closely together in the bonds of reciprocal helpfulness as well as of sentimental love.

(d) As in the case of Arbor Day, all worthy teachers are expected to file a report on the exercises of the day, no matter how brief, with the inspector of his or her division.

PUBLIC SCHOOL COURSE OF STUDY.

152. The public school course of study may be considered under its sub-division of the common and high school course. They furnish a basis for the classification of pupils by the teachers and for the examination of schools by the inspectors while they also secure a definite co-ordination of all the work attempted in the public schools of all grades, thus fostering the harmonious interaction of all the educational forces of the province.

These courses are to be followed in all schools, particularly with reference to (1) the order of succession of the subjects and (2) the simultaneity of their study. The fulness of detail with which they can be carried out in each school must depend upon local conditions, such as the size of the school, the number of grades assigned to the teacher, etc. As suggestive to teachers with little experience, contracted forms of the detailed common school course for miscellaneous and partially graded schools are appended.

The public school course of study is the result of the observation and experience of representative leading teachers of the province, under the suggestion of the experiments of other countries, and the criticism of our teachers in provincial conventions assembled for many years in succession. A system developed in such a manner must necessarily in some points be a compromise, and presumably therefore at least a little behind what we might expect from the few most advanced teachers. But it is also very likely to be a better guide than the practice of a majority without any mutual consultation for improvement. The successive progression of studies is intended to be adapted to the order of development of the powers of the child's mind, while their simultaneous progression is designed to prevent monotony and one-sidedness, and to produce a harmonious and healthy development of the physical, mental and moral powers of the pupil. The apparent multiplicity of the subjects is due to their sub-division for the purpose of emphasizing leading features of the main subjects which might otherwise be overlooked by inexperienced teachers. The courses have been demonstrated to be adapted to the average pupil under a teacher of average skill. The teacher is, however, cautioned to take special care that pupils (more especially any prematurely promoted or in feeble health) should not run any risk of "over-pressure" in attempting to follow the average class-work.

Changes in these courses of study must always be expected from year to year, but to a very small extent, it is hoped, except in the prescription of certain texts in the high school course. These will be published from time to time in the bulletin of the Department, the JOURNAL OF EDUCATION, published in April and October of each year.

158 GENERAL PRESCRIPTIONS.

These general regulations, on account of their paramount importance and their unchangeable character, are printed on page 10 of the School Register, so that they may be always before the eyes of the teacher. To save space they are not republished here; but attention is called to the fact that they are even of more importance than the special prescriptions which follow below as supplementary.

SPECIAL PRESCRIPTIONS FOR COMMON SCHOOLS.

CRADE L.

Reading-No. 1 with Wall Cards or Blackboard Work.

Language—Story telling by pupil. Writing easy vertical letters, words and sentences.

Writing and Drawing—Writing on slate, paper or blackboard. Drawing of easy, interesting figures as in Manual Training, to end of Section II (or as in alternative Drawing

Arithmetic-All fundamental arithmetical operations with numbers, the results of which do not exceed 20, to be done with concrete or abstract numbers, accurately and rapidly.

See general prescriptions. Lessons on Nature-Power of accurate observation developed by exercising each of the senses on simple or appropriate objects. Estimation of direction, distance, magnitude, weight, etc., begun. Common colors, simple, regular solids, surface and lines. Simple observations on a few common minerals, stones, plants and animals.

Music, &c .- As under general prescriptions.

13a

GRADE II.

Reading-Reader No. II. Language—As in Grade I, but more advanced. See general prescriptions.

Writing and Drawing—As in Grade I, but more advanced. Angles, triangles, squares, rectangles, plans of platform and school room (or as in Manual Training No. I to end of Section IV); with Public School Drawing Course No. I (or as in alternative Drawing Course recommended).

Arithmetic-Numbers up to 100 on the same plan as in Grade I. Lessons on Nature-As in Grade I, but more extended. See general prescriptions. Music, &c .- As under general prescriptions.

GRADE III.

Reading.—Reader No. III. See general prescriptions. Language.—As in II, but more advanced. Subject and predicate. Nouns and verbs. Writing and Drawing.—Vertical letters on slate and in copy books. Freehand outlines on slate, blackboard, etc. Common geometrical lines and figures with their names. Map of school grounds and surroundings. As in Manual Training, No. 1, to end of Section VI.; with Public School Drawing Course, No. 2 (or as in alternative Drawing Course recom-

Arithmetic. - As in Common School Arithmetic, Part I., first half. General prescriptions. Lessons on Nature.—Geography of neighborhood, use of local or county maps. Estimation of distances, measures, weights, etc., continued. Color. Study extended to three or four each of common metals, stones, earths, flowers, shrubs, trees, insects, birds and mammals. See general prescriptions.

Music, &c .- As under general prescriptions.

GRADE IV.

Reading.—Reader No. IV. See general prescriptions.

Language.—Oral statements of matter of lessons, observations, etc. Written sentences

with punctuation, etc. Modifiers of subject and predicate, of noun and verb

Writing and Drawing —Copy Book. Drawing as in Manual Training, No. 1, to end of Section VIII., with Public School Drawing Course, No. 3 (or as in alternative Drawing Course, No. 3) Course recommended.)

Geography.—Oral lessons on Physiography as on pages 85 to 99, Introductory Geography, with the general geography of the Province begun on the school map. See general prescriptions.

Arithmetic. - As in Common School Arithmetic, Part I, completed. See general pre-

ecriptions. Lessons on Nature. - As in Grade III, but extended so as to include four or five objects of each kind, as in general prescriptions.

Music, &c. - As under general prescriptions.

GRADE V.

Reading.—Reader No. V. See general prescriptions. Language.—Oral as in IV., and general prescriptions. All parts of speech and sentences with inflections of noun, adjective and pronoun, -orally. Composition practice on "nature lessons," etc., increasing.

Writing and Drawing.—Copy Book. Drawing as in Manual Training. No. 1, with Public School Drawing Course, No. 4, etc., and drawing from objects (or as in alternative

Drawing Course recommended.)

Geography and History.—Ideas of latitude and longitude, physiography, etc., developed. Oral geography of Nova Scotia on map in fuller detail. General geography of the Provinces of Canada and the Continent, as on the Hemisphere maps. Oral lessons on leading incidents of Nova Scotia history.

Arithmetic.—As in Common School Arithmetic, Part II., first half.

Lessons on Nature.—From mineral and rock to soil as shown in neighborhood, and extended to five or six each of the common plants, trees, insects, other invertebrates, fish, reptiles, birds, mammals; and natural phenomena, such as ventilation, evaporation, freezing, closely examined. Health Roader No. 1 begun.

Music, &c. - As under general prescriptions.

Reading.—Reader No. VI. See general prescriptions.

Language.—Oral as in V. extended. Formal composition (simple essays) twice each Paradigm of regular verb. Simple parsing and analysis begun. More important rules of Syntax applied. Short descriptive sketches of observation, etc., etc., and letters,

from oral instruction, as in "Lessons in English."

Writing and Drawing.—Copy Book. Drawing as in Manual Training, No. 2, to end of Section II, with Public School Drawing Course, No. 5, &c. Increasing practice in repre-

senting common objects in outline (or as in alternative Drawing Course recommended.)

Geography.—Introductory Geography text to end of Canada. Thorough drill in out-

lines of Hemisphere, with map drawings.

History. - Leading features of History of Nova Scotia (oral). Arithmetic - As in Common School Arithmetic, Part II, completed.

Lessons on Nature. - As in Grade V., but extended to at least six or seven objects of each class specified. Distribution and values of all natural products of the Province. Health Reader No. 1 completed.

Music, &c .- As under general prescriptions.

GRADE VII.

Reading.—Prescribed Selections. Character of metre and figures of speech to be

observed. See general prescriptions.

Language.—Leading principles of Etymology with paradigms. Parsing and analysis of simple sentences and application of rules of syntax (oral). Written abstracts of oral or reading lessons. Simple description of "nature" observations, etc., narrative and business forms, punctuation and paragraphing. All from oral instruction as in "Lessons in English"

Writing and Drawing.—Copy Book. Drawing as in Manual Training, No. 2, to end of Section IV., with Public School Drawing Course No. 6, &c. Plotting of lines. triangle rectangles, &c., according to scale, as in Morton's Mechanical Drawing. Chap. I and II. Simple object drawing extended (or as in alternative Drawing Course recommended).

Manual Training, Chap. I and II. Geography.—Introductory Geography to end of Europe, with thorough map drill, and map drawing. See general prescriptions.

Mistory.—Leading features of History of Canada (Hay). See general prescriptions.

Arithmetic.—As in Common School Arithmetic, Part III., first half.

Lessons on Nature. - As in Grade VII., and with the study of specimens illustrating the stones, minerals. &c.; each class, sub-class, and division of plants; and each class of animals found in the locality. All common and easily observed physical phenomena. (Much of this course will be covered by a series of object lessons on the subject matter of any backets of the easier chapters of James' Agriculture, and on the Introductory Science. Music, &c. - As under general prescriptions.

GRADE VIII.

Reading.—Prescribed selections. Elements of prosody and plain figures of speech, as illustrated in reading, to be observed and studied. See general prescriptions.

Spelling.—Prescribed Speller in addition to general prescriptions.

Language.—Parsing, including important rules of Syntax. Analysis of simple and easy complex sentences. Correction of false Syntax and composition exercises, etc., as is "Lessons in English" completed. Pupils at this stage should be able to express themselves and with fair account with fair account with fair account. fluently and with fair accuracy in writing, for all ordinary business purposes. See general prescriptions.

Writing and Drawing.—Copy Book. Model and object drawing. Manual Training, No. 2, to end of Section V., with review of Public School Drawing Course, Nos. 5 and 6, &c. Construction of angles, mathematical figures, maps, plans, etc., to scale and their measurement, neatly and accurately, as in Morton's Mechanical Drawing, Part I. See general prescriptions (and alternative Drawing Course recommended).

Geography—Introductory Geography completed and reviewed, with latest corrections and map drill, and map drawing. See general prescriptions.

History.—Outline history of British Empire (Robertson). See general prescriptions. Arithmetic.—Common School Arithmetic completed. See general prescriptions.

Algebra.—Fundamental rules, with special drill on the evolution of algebraic expres-

Bookkeeping.—A simple set, as in Kaulbach and Schurman or an equivalent.

Lessons on Nature.—As in Grade VII., extended to bear on Health, Agriculture, Horticulture, and any local industry of the School Section. Local 'Nature Observations."

(Much of this course will be covered by a series of oral lessons completing the subject.) matter of James' Agriculture and of the Science Primer.) Health Reader, No. 2, completed. See general prescriptions.

Music, &c. - As under general prescriptions.

157. CONDENSED OF MMON SCHOOL COURSES.

(The following condensations of the Common School Course of Study are given merely as suggestions for the benefit of untrained teachers who may require such aid. In connection with the special prescriptions given hereunder, the teacher should study thoroughly the meaning of the general prescriptions given elsewhere, and in the School Register. general combined with the following special prescriptions form the prescribed Courses of Study.)

158.

FOR A COMMON SCHOOL WITH FOUR TEACHERS.

PRIMARY.

Reading-Readers No. I and II, with wall cards or blackboard work. Language—Story-telling by pupil. Easy vertical letters, words and sentence. Writing and Drawing.—Writing on slate, paper or blackboard. Drawing of easy intersting figures, plans of platform and school room, etc., or, as in Manual Training No I, to the end of Section IV., with Drawing Book No, I (or as in alternative Drawing Course Presented Section IV.)

Arithmetic. - All fundamental arithmetical operations with numbers, the results of which do not exceed 100, to be done with concrete and abstract numbers, accurately and

rapidly.

Lessons on Nature, &c.-Power of accurate observation developed by exercising each of the senses on simple and appropriate objects. Estimation of direction, distance, magnitude, weight, etc., begun Common colors, simple, regular solids, surface and lines. Simple observations on a few common minerals, stones, plants and animals. Simple songs, Hygiene and Temperance.

ADVANCED PRIMARY.

Reading.—Readers Nos. III. and IV., with spelling. Language. —Oral statements of matter of lessons, observations, etc. Written sentences

with punctuation, etc. Subject, predicate, noun, verb, and their modifiers.

Writing and Drawing—On slate and blackboard. Common geometrical lines and figures with their names, map of school grounds. Copy books. Drawing as in Manual Training No. I., to end of Section VIII., and Drawing Books Nos. 2 and 3, or representative tive selections from them, with outline drawing of common objects (or as in alternative Drawing Course recommended).

Lessons on Nature, &c.—Geography of neighborhood and the use of map of province with easy geographical terms, explanation of the change of seasons, etc Estimation of distance, measure, weight, etc., continued. Color. Study of four or five each of the common metals, stones, earths, flowers, shrubs, trees, insects, birds and mammals. Simple songs. Arithmetic -As in Common School Arithmetic, Part I. :Bongs.

INTERMEDIATE.

Reading .- Reader Nos. V. and VI., Health Reader No. I. Language. - Formal composition (simple essays twice a month), short, description of Nature lesson" observations, etc., and letters as well as oral abstracts. Simple parsing

and analysis begun, with the application of the more important rules of syntax, exercises selected from reading lessons. (No text book in the hands of pupils).

Writing and Drawing.—Copy books. Drawing as in Manual Training No 1, complete, and Drawing Books Nos. 4 and 5 (or as in alternative Drawing Course recommended). Model and object drawing.

Arithmetic,—As in Common School Arithmetic, Part II.

Geography.—Introductory Geography to end of Canada. Thorough drill in outlines of Hemisphere maps.

History.—Leading features of history of Nova Scotia (oral).

Lessons on Nature.—From minerals and rock to soil, as shown in neighborhood and six or seven each of the common plants, trees, insects, other invertebrates, fish, reptiles, birds, mammals, and natural phenomena, such as ventilation, evaporation, freezing, closely examined. Distribution and values of the natural products of the province. Music, at least half a dozen songs (tonic sol-fa notation).

PREPARATORY.

Reading.—VII. and VIII. Health Reader No. 2. Elements of prosody and plain figures of speech as illustrated in readings to be observed and studied.

Spelling.—Readers and prescribed Spelling Book, etc.

Language.—Leading principles of Etymology and Syntax. Parsing. Analysis of simple and easy complex sentences. Correction of false syntax. Written abstracts of oral and reading lessons. Simple description of "Nature lesson" observations, etc., narrative and business forms. business forms. Punctuation and paragraphing. All oral, including matter of "Lessons in English."

Writing and Drawing.—Copy Books. Drawing as in Manual Training No. 2 to end of Section V. with Drawing Book No. 6. Model and Object drawing with simple drawing from nature (or as in alternative Drawing Course recommended). Construction of angles and simple geometrical figures to scale and their measurement as in Morton's Mechanical Drawing, Part I.

Geography .- Introductory text book with latest corrections and thorough map drill.

History. -Outlines of British and Canadian History.

Arithmetic and Algebra. - Common School Arithmetic. Fundamental rules of Algebra, and evaluation of algebraic expressions.

Bookkeeping. - A simple set as in Kaulbach and Schurman or an equivalent.

Music. -At least eight songs and the tonic sol-fa notation.

Lessons on Nature. - The study by examination of the minerals, stones, earths, etc.; of specimens of each class, sub-class and division of plants; and of each class of animals, found in the locality, with particular reference to the bearing of the knowledge of any use ful industry, as agriculture, horticulture, etc. All common and easily observed physical phenomens. Oral lessons with experiments on subject matter of Introductory Science Primer and James' Agriculture.

159. FOR A COMMON SCHOOL WITH THREE TEACHERS.

LOWER.

Reading.—Readers Nos. I, II and III, with spelling.

Language.—Story-telling by pupil. Printing or writing simple words and thoughts. Writing and Drawing.—Vertical letters, etc., on slate, paper or blackboard and copy.

Drawing from objects and of easy interesting figures, plans of school grounds, or as a printing Poly of the printin in Manual Training, No. 1 to end of Section VI., with Drawing Books, Nos. 1 and 2 (or as in alternative Drawing Course recommended),

Arithmetic.—As in Common School Arithmetic, Part I., first half.

Lessons on Nature.—Power of accurate observation developed by exercising each of the senses on simple and appropriate objects, geography of neighborhood and local map. Estimation of direction magnitude, distance, weight, measure, etc., begun. Colors. Objective study of at least a few of each class of the natural history objects in the locality. Music. -At least three simple songs (tonic sol-fa notation).

MIDDLE.

Reading.—Readers, Nos. IV, V and VI, with spelling. Health Reader, No. 1.

Language.—Oral statement of matter of reading lessons and oral lessons.

Simple despends of parts o cription of "Nature lesson" observations, etc., narrative and letter writing. speech and sentences with the easier inflections and rules of syntax. Parsing and analysisof simple passages in reading lessons begun.

Writing and Drawing.—Gopy books. Drawing as in Manual Training, No. 1, complete with Drawing Books, Nos. 3, 4 and 5, or representative selections from them, and outline drawing from objects (or as in alternative Drawing Course recommended).

Arithmetic. - As in Common School Arithmetic, Parts I. and II.

Geography and History.—Drill in Hemisphere maps and Introductory text book to end of Canada. Oral lessons on the leading incidents of the history of Nova Scotia.

Music.—Five or six songs (tonic sol-fa notation).

Lessons on Nature .- Estimation of weights, measures, distances, etc., in connection with reduction exercises; six or seven each of every class of natural history objects (mineral, vegetable and animal), in the neighborhood, examined and classified. Common physical. phenomena observed and studied.

HIGHER.

Reading.—VII. and VIII. and Health Reader, No. 2, with spelling and prescribed spelling book, elements of prosody and plain figures of speech in passages read, observed.

Language. - Leading principles of Etymology and Syntax. Parsing, analysis of simple and easy complex sentences, correction of false syntax, oral and written abstracts of interesting to the syntax of easy complex sentences, correction of false syntax, oral and written abstracts of interesting lessons. Essays, including narrative description of "nature lesson" observations, etc., and general letter writing with special attention to punctuation, paragraphing, and good form generally. All oral, including matter of "Lessons in English."

Writing and Drawing.—Copy Books. Drawing as in Manual Training, No. 2, to end of Section V., with Drawing Book, No. 6. Model and Object Drawing, with simple drawing from nature (or as in the Alternative Drawing Course recommended). The construction and mature for a factor of the construction of the constr

and measurements of Angles and mathematical figures as in Morton's Mechanical Drawing, Part I.

Geography.-Introductory Geography, complete with latest corrections, and general map drill on Hemisphere maps.

History. Outlines of British and Canadian History. Arithmetic and Algebra. -Common School Arithmetic, and evaluation of algebraic

expressions and four fundamental rules. Bookkeeping. - One simple set with commercial forms.

Music.—At least eight songs and the tonic sol-fa notation. Lessons on Nature. The study objectively of a number of the typical natural history objects of the locality, their distribution, value and bearing on native industries in the province. The observation and explanation of common physical phenomena. Oral lessons and experiments as in introductory Science Primer and James' Agriculture.

160

FOR A COMMON SCHOOL WITH TWO TEACHERS.

JUNIOR (at least two divisions).

Reading.—Primers and Readers, Nos. I, II, III and IV, with spelling, and oral abstracts of interesting lessons; nouns, verbs, subjects, predicates, etc., in lessons of higher classes;

writing sentences, and descriptions of "nature" observations.

Writing and Drawing.—Letters, words, geometrical figures, etc., on slate, paper and blackly and Drawing.—Letters, words, descriptions as in Manual Training No. 1, to the end of Section VII, with Drawing Books Nos. 1, 2. 8 (or as in alternative Drawing Course and of Section VII, with Drawing Books Nos. 1, 2. 8 (or as in alternative Drawing Course and of Section VIII) Course recommended), and drawing from common objects.

Arithmetic. - As in Common School Arithmetic, Part I.

Music.—Four or five songs, with tonic sol-fa notation.

Lessons on Nature—Practice in the estimation, by guessing and testing of weights, measures, distances, etc., referred to in reduction tables.

Study of regular solids, surfaces, lines—surfaces, etc., referred to in reduction tables. lines and colors. Observation of simple physical phenomena. Examination and classification of representative specimens of minerals, stones, etc, plants and animals, to be found in the locality. Training the eyes to see everything around and the mind to understand explanations and relations.

SENIOR (at least two divisions).

Reading.—Readers, Nos. V, VI, VII and VIII, Health Readers, Nos. 1 and 2, Spelling and definition. Oral abstracts of lessons. Elementary grammar and analysis drill on sentences in reading lessons. Observation of figures of speech and the character of metre, in. poetical passages read in the advanced division.

Language.—Leading principles in Etymology, Syntax, etc. Written and oral abstracts narratives and description of "nature lesson" observations, etc., with attention to punctuation, paragraphing and form. All as in "Lessons in English," taught orally.

Writing and Drawing. - Copy Books. Drawing in Manual Training, No. 1, complete, and No. 2 to end of Section V with Drawing Books, Nos. 5 and 6, Model and Object (Or condensation of alternative Drawing Course recommended). Lessons in mathematical construction of figures in advanced division as in Morton's Mechanical Drawing, Part I. The use of the "Universal Scale"

Geography. - Text books (introductory) in advanced division. For all, thorough drilling

the general geography of the Hemisphere maps.

History. -Outlines of British and Canadian History, in alternative divisions.

Arithmetic. - Common School Arithmetic, Parts II and III, with evaluation and fundamental rules of Algebra for advanced division.

Bookkeeping.—Simple set for advanced division.

Music.—At least eight songs and the tonic sol-fa notation.

Lessons on Nature.—One daily to all pupils on such subjects as: estimation of weights, measures, distances, etc.; properties of bodies, common physical phenomena, local representative specimens or species of the mineral, vegetable and animal world in the locality, the natural resources of the province—and the bearing of these on our industrial develop. ment, etc., etc. Experiments, etc., as in the Introductory Science Primer and James' Agriculture.

161.

FOR A COMMON SCHOOL WITH ONE TEACHER.

(Ungraded, "Miscellaneous," or "Rural" School.)

As a general rule there should be at least four classes or divisions in such a school; (a) those in Reading VII and VIII, (b) Readers No. VI or V, (c) Readers No. IV or III, and (d) Readers No. II or I. The pupils in such a school must be drilled to move without the loss of an instant of time, if the teacher is to be successful. There cannot be here the leisure of graded school].

Reading.—(d) Four lessons a day, very short, with spelling, grammar and composition questions on them; (c) three short lessons in like manner; (b) two short lessons, one from Health Reader No. 1, with the full range of questions to them; (a) one lesson (Health Reader No. 2 on alternate days), with questions covering spelling, definitions, grammar,

analysis, prosody and composition, more or less partially.

Writing and Drawing.—(d) On slate or paper from blackboard or cards during specified times of the day; (c) same, more advanced; (b; copy books and drawing books once each day; (a) the same once each day. The use of the "Universal Scale," as in Morton.

Language.—Text book only in (a) and once a day or every other day, with written composition in (a) and (b) as indicated in the other courses. Class instruction or essay criticism once or twice a week all of the other courses. criticism once or twice a week. All as in "Lessons in English," taught orally.

Geography—Oral lessons once or twice a week to (d) and (c) and (b). Text books

twice a week (b) and (a).

History.—Oral lessons once or twice a week to (c) and (b). Text book twice a week for (a)

Arithmetic. - Each class to receive attention twice a day as a class from the teacher (d) a very few minutes at a time; (a) more time, which might vary with the difficulty of points to be reasoned out. This will form the main subject for "seat work," while the teacher is engaged with other classes.

Music.—At least twice a day for a few minutes. Exercises short and often given are

more useful for many purposes than exercises long and seldom.

Lessons on Nature.—Once every day so as to select during the year the most important points specified in the uncontracted course. Oral lessens on local objects of Nature Study as in James' Agriculture. A specimen time table is given below for such schools.

162.

SUGGESTIVE TIME TABLE.

(DESIGNED TO AID INEXPERIENCED TEACHERS AND TRUSTEES).

This specimen is given here for a rural school in which it is assumed there is only common school work to be done—the work of the first eight "Provincial Grades."

Every teacher should have a time table, giving all these details, posted up in the school room, so that pupils could be guided by it to even their "desk" work. Inspectors are required to insist on their desk work. required to insist on this in every school.

TIME TABLE.

[For a "rural" or "miscellaneous" common school of eight grades grouped in four classes (a), (b), (c) and (d), as directed on the previous page, with about 44 pupils, 2 in 8th, 3 in 7th, 4 in 6th, 5 in 5th, 6 in 4th, 7 in 8rd, 8 in 2nd, 9 in 1st].

Time	Duration (Minutes.)	REGITATION TO TRACHER.		SILENT WORK OF THE FOUR CLASSES AF DRSKS.			
BEGON AREN LUMB		Monday, Wednesday, Friday,	Tuesday. Thursday.	(a)	(b)	(c)	ه (q) ‡
9:00 9:15 9:30 9:45 10:00 10:15	15 15 15 15 15 15 30	Opening song, and Rell-call. (d) Reading, Spelling, etc. (c) " (b) " (a) " Song and Calishenics. (a), (b), (c) and (d), Arithmetic, etc.		Arith. Arith. Spelling.	Arith. Spelling.	Spelling. Spelling. Drawing.	Spelling. Drawing. Arith.
0:50	10	RECESS.					*
11:00 11:15 11:30 11:35	15 15 5 25	(a) Gram. and Anal. (d) Reading, Spelling, Mental Writing.	i (a) Language. etc Arithmetic. i Drawing	Arith.	Arith. Arith.	Arith. Arith.	Arith.
2:00	60	Noon Intermission.					
1:00 1:05 1:20 1:35 1:50 2:05 2:10	5 15 15 15 15 20	Geog., etc., (oral). (a+) Geog. (c) Language. (b)	Roll-call. Hist., etc., (oral) (a +) Hist. (d) Language. (a) Tues. (b) Thurs. Calisthenics. Math., Drawing	Amith	Aulth	Arith, Language Spelling.	Arith. Language. Spelling
2:80	10	Rucras.					:
2:40 2:55	15 10	"Nature" and Science is Writing or Drawing not		†		†	
3:05 3:20 3:85	15 15 15	(d) Reading, Spelling, 6 (c) " (b) "		Math. Math. Math.	Math. Spelling.	Arith. Spelling.	
8 : 50	10	, , ,	ents, etc., and Song.	[–]	.1	.1	

NOTES ON THE TIME TABLE.

*Desk work, Mathematics, when teacher is not engaged with the class.

†Desk work, description in writing (and drawing when necessary) of natural objects or the class to the "lesson" observations, when the teacher does not require the attention of the class to the "lesson" the day. Some lessons may be adapted to all classes, others to the senior or junior. When an elementary lesson is given classes (c) and (d) the classes (a) and (b) should be working on a written description of a plant, an insect, or other phenomena observed, or experiments in the interest with drawings. And vice were the contract of the class of the clas

experiments in physics, etc., with drawings. And vice versa.

**Class (d) may be necessarily made up of two or three, if not more sub-classes, each of which must be rapidly taken in turn.—some in their letters, some in their primer, etc., but all must receive attention in these subjects three or four times a day, for they can do but very little at a time.

Reading.—Should include spelling, definition of words, grammatical notes, derivations, prosody, etc., as the matter suggests; and the literary and other ideas involved should be made clear to the pupils. There is a saving of time and effort in considering as many related this constitutions.

related things as possible together. See general prescriptions.

Language.—The "desk" work should require every day, if possible, the expression of the pupil's thoughts about something on which he can have clear ideas. To read a short story, or choice description once to the class, giving all, say, exactly five or ten minutes to

write rapidly their remembrance of it substantially, is a good exercise; especially if the errors are corrected before the class or otherwise shortly after; or to give them an object or a picture to "write up" in a limited time. This will develop facility in composition. Some grammar and analysis, of course, will be necessary in order to enable the pupils to understand the reasons why some methods of expression are better than others.

Mathematics - Several subjects need be taken up only for a month or two, such as the elementary rules of algebra, accounts, the use of the mathematical scales, as on the universal Scale (engraved on wood) and the compass in mathematical drawing.

might be taken instead of arithmetic, say on the afternoon of alternate days.

High School Work — Where work of this kind has to be done, those studying the high school subjects might aid the teacher with some of the classes so as to obtain time for the high school studies which might otherwise cut down too much of the time given to the common school grades, which are of paramount importance in ungraded schools. high school work is being done, the teacher's time, in case of a difference of view by those interested, might be fairly decided to be distributed to each grade in proportion to the number of grades and pupils in each.

Nature Lessons, &c. - See general prescriptions in the School Register.

ALTERNATIVE COMMON SCHOOL COURSE OF DRAWING.

The following is the alternative course of Drawing for the common school grades, which is referred to in the preceding prescriptions. For partially graded, and for ungraded schools, it can be condensed as illustrated in the preceding condensations of the regular course for fully graded schools. The sub-divisions (a), (b), (c) and (d), serve to call and keep attention to lines which should be followed through all the grades, even in the condensed courses which teachers are expected to form and adapt to the conditions existing in rural schools.

GRADE I.

(a) Drawing as an aid to Language.—Free illustrative sketching from copy, memory

and imagination

Show pupils good outline pictures of simple objects, of scenes and of scenery. Teach then to tell what such pictures express. Make on blackboard in presence of pupils, outline pictures of familiar objects, such as a kitten, a boy with a flag, a house on hill-top and boy running after his hat. Let the pupils copy these pitcures and combine them to form

Encourage all honest effort and criticise mildly even the poorest. When the drawing is not satisfactory ask the pupil to re-examine the object and try again, perhaps next day. This will be particularly valuable when he is drawing from memory.

Occasionally use coloured crayons and have the pupils use coloured pencils. Drawing as an aid to Nature Lessons. -Let every nature lesson end, when possi-

ble, with an illustrative drawing of the object studied.

This will lead the pupils to observe and examine with greater care, and render the ressions more lasting. Outline drawings of animals, trees, leaves and fruits, most interimpressions more lasting. esting to children, are appropriate for this grade. Sometimes this work may be done in color with the brush, using diamond dyes.

Formal Drawing Lessons - A half-hour lesson once or twice a week. Make the pupils draw from objects such as apples, half apples, oranges, leaves, tubers, roots, etc.,—from any single object not involving perspective. They should frequently make models of objects in clay or other material and then make drawings of them. Some attentions of the property colors with their time and the colors with the property colors with the colors tion should be given to the primary colors with their tints and shades,

For manual drill, let the pupils draw circles and curves on the blackboard.

They should occasionally, in symmetrical exercises, use both hands at the same time, and sometimes the left instead of the right hand.

All the drawings should be large. Much injury is done to children and time is wasted in striving for minuteness of detail and accuracy of finish, before the hand and eye are

In small country sections, or in schools where the teacher has but one grade and not too many pupils, stick and tablet laying, also paper cutting and folding should be practiced. A series of such exercises will develop the idea of symmetry and be the best preparation for

Good teachers will, at this stage, be sparing in the use of technical terms

Young children should always draw from interesting objects. Type forms represent abstractions which should not be used urtil the pupil has reached them by his own gen-

ar Colored crayons may be used to advantage in all the grades, when water colors can not be obtained or effectively used.

GRADE II.

(a) As an aid to Language. - Encourage and help the pupils to illustrate simple scenes

and events by pencil sketches. Excellent selections in literature suited to this grade are now attainable, such as fairy tales, etc. Pupils generally take much pleasure in pictorial representations of them. Their attempts at first will be crude, but experience has shown that the great majority of pupils. will improve rapidly, that their conceptions will be made more vivid, and consequently that the constructive imagination so useful in the study of history and geography will receive proper development.

(b) As an aid to Nature Lessons .- As in Grade I. More difficult objects and some detail; simple grasses and flowers, occasionally using water colors. stages of its growth. The cow or horse and the dog from memory. The leaf in the various

Let the pupil be asked to observe these animals carefully whenever he can and then make a memory drawing of them in school. Point out mistakes and let the pupil correct them by renewed observation until the work is fairly good.

Trees.-Characteristic foliage in mass of spruce, oak or beech, poplar or elm. Apple

on branch with leaves.

(c) As an aid to Mathematics .- Teach the pupils to draw accurately from one point to

another, using a ruler. Draw parallel lines.

Number work may be made more interesting by having the pupils make pictures of a given number of birds, apples, etc., by making them divide a line or any regular surface into equal parts to illustrate the nature of fractions, halves, fourths and eighths.

(d) Formal Drawing Lessons.—Two half hours a week. Continue same work as in Grade I., introducing the grouping of two or more simple objects. The manual drill on the blackboard should include ornamental curves.

Construct with coloured paper an historic border. Represent it by a drawing. Vary the pattern.

GRADE III.

(a) As an aid to Language.—As in Grade II (a). Excellent copies of masterpieces of art may now be obtained at so small a cost as to place them within reach of the poorest schc.

Before studying and discussing the pictures appropriate for this (or any other) grade, the pupils should see and examine as many as possible of the objects mainly represented,

clouds, forests, mountains, rivers, lakes, ravines, animals, churches, etc.

(b) As an aid to Nature Lessons —As in Grade II (b), but somewhat more difficult. Cat, rabbit, hen, duck, herring, trout, the parts of a flower, turnip and potato,

leaves, etc. (c) As an aid to Mathematics and Geography.—Drawing squares and rectangles of given dimensions.

Dividing them into square inches. Measuring distances in the classroom and representing them by lines one quarter of an inch to a foot.

Drawing correct plan of the schoolroom and of the play ground. Division of lines and surfaces into thirds, sixths and twelfths.

(d) Formal Drawing Lessons.—As in Grade II, but more advanced. Ornamental curves more complex, copied and original, on blackboard.

Borders formed by repetition of flower form.

GRADE IV.

As an aid to Language. - Continued as Grade III (a). (b) As an aid to Nature Lessons.—Common plants, shrubs, trees (of each three or four), so as to be readily recognized by their characteristic branching and foliage. Fruits. A few of the larger bones of the human body, The frog and the butterfly in the various

tages of development. The sparrow and the robin. Natural colors to be used when convenient. As it will generally be impossible to obtain

human bones, corresponding ones from other large animals may be used instead. (c) As an aid to Mathematics and Geography.—Fifths and tenths illustrated. The use of the compass in drawing circles. Right angles, triangles and squares geometrically constructed. Map drawing. Plans to scale. Working drawings of a few simple objects. tructed.

(d) Formal Drawing Lessons. - As in Grade III (d). Study of good pictures, Pring iples of repetition and alternation in exercise on borders and rosettes. Study of color in blects. Pleasing combinations of color in design.

GRADE V.

(a) As an aid to Language.—Continued as in Grades II and III.

The reading lessons will afford abundant material for pictorial drawings and illustrative sketches. Besides, there are incidents in child life, his games, etc.,—"playing ball," "fishing for trout," "snowballing," "what I saw on my way to school," "the hay makers." Drawings in mass of animals and children in interesting attitudes. Here appropriate colors will greatly improve the effect.

(b) As an aid to Nature Lessons.—Plants, thistle, horsetail, iris, woodsorrel. Animals -sheep and goat, turkey and goose, salamander, beetles, butterfly. Analysis of leaves and

flowers of color schemes.

(c) As an aid to Mathematics and Geography.—Accurate drawings of polygons with compasses and ruler. Development of surface of pyramid in cardboard. Paper cutting to produce forms of regular solids. Plan of the school section. Map of province. Working

drawings for a bracket.

(d) Formal Drawing Lessons.—Studies of good copies of famous paintings. Exercises in complete curves on blackboard—occasionally with both hands. The most elementary principles of freehand perspective as applied to simple objects,—the circle and the cube in different positions. The study and reproduction of historic ornament. Color lessons—tints and studies in objects, and pleasing combinations of color in design.

(a) As an aid to Language.—As in Grade V (a).

(b) As an aid to Nature Lessons.—Organs of the human body—hands, feet, ears.

Plants—lady's slipper, red maple. Animals—bear and fox, hawk and owl, insects in various stages of development. Study of color in natural objects.

(c) As an aid to Mathematics and Geography.—The measurement of angles and lines.

Plotting geometrical figures and simple geometrical problems. Map drawing North America, showing Canada somewhat in detail. Working drawings of simple rectangular objects.

Formal Drawing Lessons.—As in Grade V (d), but more advanced. The idea of type forms, cubes, pyramids, ovoids, etc., developed from the drawing of simple objects.

GRADE VII.

(a) As an aid to Language—As in Grade V (a) Special attention to the drawing of the best buildings and landscapes of the section.

(b) As an aid to Nature Lessons—Structure of bones, muscles and eyes. Plants. Animals—spider and web, kingfisher, squirrel. Analysis of beautifully colored natural objects. (c)

As an aid to Mathematics and Geography-Plotting. More difficult geometrical

problems. Map drawing—Europe. Working drawings.

(d) Formal Drawing Lessons—Object drawing. Freehand perspective. Decorative Pleasing arrangement of groups of fruit, vegetables, design. Study of tints and shades. Pleasing arrangement of groups of fruit, vegetables, or other objects; vase forms, etc.; arrangements of objects to express some complex thought, as bottle of ink, a pen and a sheet of paper.

GRADE VIII.

(a) As an aid to Language.—Occasional practice in pictorial sketching.

(b) As an aid to vature Lessons.—Plants and animals. Heart and lungs of a sheep or

an ox. Apparatus used in science lessons, etc.

(c) As an aid to Mathematics and Geography—Accurate plotting and measurement by mathematical instruments. Working drawings of common objects to scale. Geometrical

problems. Map of the British Isles.

(d). Formal Drawing Lessons.—The study of good drawings from master artists.

Drawing of groups of models, flowers, fruit, etc. Historic ornament. Adaptation of natural forms to purposes of decorative designs. Color harmony applied in design.

153. GENERAL PRESCRIPTIONS.

The general regulations, on account of their paramount importance and their unchangeable character, are printed on page 10 of the School Register, so that they may be always before the eyes of the teacher. To save space they are not republished here; but attention is called to the fact that they are even of more importance than the special prescriptions which follow below as supplementary.

HINTS ON MAKING NATURE COLLECTIONS IN PUBLIC SCHOOLS.

In response to many inquiries made from time to time respecting Nature-Study collection, the following bulletin published under the auspices of the Macdonald Institute, Ontario Agricultural College, is reprinted here. It is deemed more appropriate to publish this Ontario bulletin, than to frame a Nova Scotian one at present, for the following reasons: 1.—It shows what is being done in another province. 2.—It gives the credit due to those who lead in presenting instructions in this effective manner. 3.—Thanks are due the Department of Agriculture of Ontario for permission to use the texts and illustrations, thus saving the expense necessary in compiling instructions with new figures. Our experience in testing the effectiveness of these hints will also be the best preparation for a future scheme specially adapted to the conditions of this province.

The Superintendent of Education will be pleased if this last point should be always kept in mind by principals and teachers who may sometime be in a position to make contributions to a Nova Scotia

8cheme of instruction.

HINTS ON MAKING NATURE COLLECTIONS IN PUBLIC AND HIGH SCHOOLS.

By W. H. Muldrew, B.A., D. Paed, Dean of the Macdonald Institute, and S. B. McCready, Professor of Botany and Nature Study.

INTRODUCTORY.

A short time ago the Macdonald Institute issued its first leaflet to teachers on the subject of Nature Study. The replies already received show that such assistance as was there proposed is a very real need of the schools, and will be

appreciated by the teachers.

The present bulletin treats one aspect of the subject with some detail, and is intended to be kept in the schools for permanent reference. It may seem to emphasize the rural and agricultural sides of the question, but this is inevitable from the nature of the subject. The surrounding conditions of country life favor Nature Study for the same reasons that cause Manual Training and Domestic Science to be welcomed in the cities. This does not mean that Nature Study is to be ignored in the urban schools, but rather that its development there will follow somewhat different lines. Other phases will be dealt with in later numbers.

As a centre of interest for the Nature Studies of a school, there is nothing more helpful than a collection of suggestive things from the outdoor world. The value is, however, in the *making* and the *using* rather than in the *keeping*, and this bulletin is intended as a guide to teachers and pupils in beginning such work.

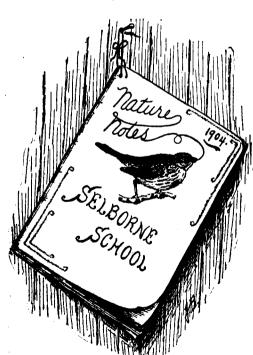
We need hardly say that collections, like books and other tools, are but the means, while the end is to be found in the interest that is aroused and the thought that is stimulated.

It is not to be expected that all of these suggestions will be practicable in our schools at once. Teachers have many duties to take up their time and attention, and Nature Study must be content with small beginnings, until it can show itself worthy of a place with the older subjects of the school room. The important thing is to make a beginning, however small, and then to grow with the work as results may warrant.

In recent years, local Fairs have given prizes to schools for nature collections, and in some places excellent sets have been shown. The weakest point with these has been want of method and uniformity in the preparation of exhibits, which should follow some general system. It is very probable that such competitions will be encouraged more and more in future years in connection with the larger Exhibitions as well as at the smaller Fairs, and it is therefore important that there should be some general standard for the guidance of teachers and scholars.

In the preparation of these instructions assistance has been received from the staff of the Agricultural College. Prof. Lochhead has contributed many practical suggestions, besides preparing the sections dealing with insects and aquaria. Most of the illustrations have been prepared for this bulletin by Mr. John Buchanan, B.S.A., of the Experimental Department. Thanks are also due to Mr. F. W. Hodson, formerly of the Dominion Department of Agriculture, for suggestions gained from his pioneer experiences in introducing school children's exhibits in Nature Study at local Fairs.

COLLECTING IDEAS FROM NATURE.



Outdoor nature is full of interesting things and events. Little eyes and ears are quick to see and hear, and little minds are quick to think. Suppose we help them to keep a record of the happenings of this outside world.

There are two kinds of observation books that might be kept; one of a general character, kept by the whole school and put into the school library from year to year as a record of the school-section's history; in this, different scholars or classes might, under the teacher's supervision, make the records from day to day or week to week. Such a book would become of more general interest and value the older it became.

tions, and a permanent record will form a worthy lesson to begin the day's work,

and will not lose its effect. Is there a teacher who cannot do as much? Give date, place, and name of observer with all needed particulars. Let older people make their own entries, but give equal credit to the earliest efforts. Use only the right-hand pages, reserving the opposite for later notes and explanations.

What things may find a place in these Nature Notes? All things of interest



Figure 1. Taking Notes.

to children or to the community, in the world of Nature. We suggest a few classes of items from the endless variety supplied by the changing seasons. The aim will be to form the habit of observation rather than to collect information, but the facts will have a value and interest of their own.

(a) First things of the season: the return of the common birds, as Robins, Crows, and Bobolinks; the northern or southern flight of Geese, Ducks, and Gulls; the appearance of hibernating animals, as the Woodchuck, Chipmunk, Snake, and Bat; the awakening of the Frogs; the leafing and flowering of the Trees, the opening of the wild Flowers; the re-appearance of Insects, as Butterflies, Mosquitoes,

Potato Bugs; the coloring and falling of leaves in Autumn.

- (b) Events of interest; frost, snow, rain, hail, rainbows, new and full moon, eclipses; the beginning and end of sleighing; plowing, sowing, and planting, haying, harvesting, potato-digging; making maple sugar; going fishing or berry picking; the birds building nests or feeding their young; crows pulling corn or eating grasshoppers; the young of wild or domestic animals; the swarming of bees; use or harm of birds and insects; tracks of animals in winter.
- (c) Histories of growth, with descriptions and drawings showing changes from day to day; notes on the condition of some chosen development, as for example:

(1) A plant from a seed.

(2) A tree, from bud to leaf and flower to fruit.

(3) A bird's or wasps' nest.

(4) A field of grain or roots.

Records of things like these would form a very interesting book. The inspector would be glad to see it. Next year it would be doubly valuable for comparison. A careful summary would be welcomed by any good local paper. It would add much to an exhibit at the autumn Fair, for it would show thinking as well as collecting, and the very best one in the Province would make an excellent bulletin for the schools.

The form of this note-book should be carefully considered. It would be well to select a book of standard size, with a good cover and good paper. If a cheap book is used there is likelihood of careless work being done in it and little regard for making it a permanent record. If a standard size is used, the pupil may have a neat set of yearly volumes at the close of his school days. A set of books, dissimilar in size, binding and quality of paper would not induce the same pride in his work

Perhaps the best form would be a loose-leaf system. The pupils could make their own covers for it out of cardboard and cover it with linen as an exercise in constructive work. A school supply of paper, ready cut and punched,

could be kept at a very small cost; for art work and plain mounting a good manilar paper would answer very well, and for written work a ruled white paper would be required; for paper-folding paper may be cut from waste wrapping paper. A

paper punch would be of great service.

This scheme has many advantages over the bound book plan: it is economical; it enables the teacher to examine the work with facility; it allows an easy replacement of a poorly-executed exercise; it permits the pupil to arrange the pages systematically under subjects; it brings all the co-related topics in Geography, Art Work and Nature Study into a natural grouping; it assists in an easy display of pupils work about the schoolroom; and finally it gives each child a book full of pleasant recollections, to keep on his bookshelf in after life.

DEPARTMENTAL COURSES IN NATURE STUDY, GEOGRAPHY, ART, CONSTRUCTIVE WORK.

The courses of study laid down in the Ontario Departmental Regulations of 1904 are here inserted, so as to show the intimate co-relations existing between the above-named subjects. Of the many courses mapped out in Nature Study and allied branches, there is none more full of suggestion or offering more freedom to the individual teacher than our own.

Many of the topics will suggest the need for some form of collecting; it should be remembered, again, that this is not an end in Nature Study, but only a means. When a collection is needed it should be made; when the boy needs the discipline and interest of collecting to help in his proper education, he should be directed and encouraged. There is no task about it; it is for educational recreation

A Bulletin board made of soft wood, or a piece of the wall covered with cork linoleum or burlap, may be made of great service in pinning up exhibits. Specimens should not be allowed, however, to remain on exhibition so long that interest

stales. Throw away rubbish when it has served its purpose.

Note, too, that a collection of drawings, in pencil, ink or color, is educationally as legitimate a nature collection as one of the real objects. Encourage the pupils to keep representations of grasses, fruits, vegetables, birds, insects, pet animals, wild animals: also maps of field excursions, maps of local farms, roads, rivers, etc.; charts showing clouds, moon's phases, sun's positions, the constellations, etc.; account of visits to factories, gardens, greenhouses, etc.

STATEMENT OF GENERAL PRINCIPLES.

NATURE STUDY.—From the character of the subject, the course must be more or less elastic, and the topics detailed in the programme are intended to be suggestive rather than prescriptive. It may be that, owing to local conditions, topics not named are amongst the best that can be used, but all substitutions and changes shall be made a subject of consultation with the inspector. The treatment of the subject must always be suited to the age and experience of the pupils, and to the seasons of the year, accessibility of materials, etc. Notes shall not be dictated by the teacher. Mere information, whether from book, written note, or even the teacher, is not Nature Study. The acquisition of knowledge must be made secondary to awakening and maintaining the pupil's interest in nature and to training him to habits of observation and investigation. Books for reference and supplementary reading should, however, be provided in the school library. Some valuable publications on the subject of Nature Study, for the teacher's use, may be obtained free on application to the Department of Agriculture, Toronto.

ART.—As a means of expression, the Art subjects should be connected closely with nature work, constructive work, history, and literature. Many pictures should be used in the lower classes, and each subject should be illustrated with the child's free expression. As in writing, special attention should be given to the attitude of the body and the position of the paper and the pencil, etc.

Constructive Work .-- The object of constructive work is mental development and physical control. The making of things should be subsidiary to the thought processes involved, and the exercises should sustain the child's interest, and take advantage of his natural desire to construct. Constructive work should make the ability to do a part of the knowing, and should incorporate knowledge into habit and theory with practice. The amount of work accomplished is unimportant in comparison with the mastery of correct methods and the formation of good habits. Every opportunity should be given the pupils to modify given type models or to design new ones, and in the lower grades to rearrange given units or create new combinations. All of the work should have in it the elements of beauty in construction, in proportion, and in decoration. Though we may not be able to add to the quantity or the variety of the material, we can modify its form and we can arrange it in new combinations. The making of new forms and combinations, the giving of definite expression to ideas and mental images, the rendering of the inner outer, is the great Froebelian doctrine of creativeness.

FORM I.

NATURE STUDY.—Animal Life: General appearance and habits of pet animals, their care and food; domestic animals on the farm, their care, habits and uses; birds, their nesting, song, food, migrations in the autumn; metamorant

Phosis of a few conspicuous butterflies or moths.

Plant Life: Work in school garden or in window-boxes; study of a plant, as a geranium or pansy, from slip or seed to flower; caring for plants in pots; buds, their preparation for winter, their development; autumn leaves, collections, forms, tints; economic fruits, collection, forms how stored for winter, fruit as seed holders, dissemination of seeds; roots and stems, uses, comparison of fleshy forms, how stored for winter.

Life on the Farm: Harvesting, primitive and modern methods compared; Preparation for winter; the barn and its uses; activities of the farm during Winter; winter sports and social life on the farm; the varied operations of spring time; spring time as awakening to new life; effects of sun and moisture on the soil

GEOGRAPHY.—Observation of particular forms of land and water, as hills, valleys, ravines, streams, ponds, etc., in the neighborhood of the school; location of objects observed; general motion of position and direction; activities of home and vicinity, the farm, the shops, the factories, things brought to market, food, milk, water supply, shelter and clothing, rail and other roads, water-ways; systematic trips to places of geographical interest near the school; observation of the progress of the sun from sunrise to sunset; observation of position and appearance of the moon, the "Great Bear"; clouds, appearance, motions; rain, snow, hail, etc.; stories of child-life in other lands with illustrations.

Note.—In its early stages geography should be but a phase of the observa-

tional work in nature study.

ART.—Freehand expression with pen, pencil, crayon, and water-color.

Six standard colors. Blackboard and pencil drawing (free movement)—

Simple natural objects and other objects in which children are interested, as toys, dolls. etc.

Water colors or colored crayons.—Simple grasses, leaves, sprays, flowers, fruits, birds, pet animals, etc., studied in nature work. Color, pencil, or ink illustrations of stories; studies of pictures.

Constructive Work.—Paper cutting and folding in elementary geometric patterns, coloring and grouping of these as bases of design; this work to be connected with drawing and modelling in clay.

Making of objects, as picture frame, window, envelope, etc. Basket and raffia work. Clay Modelling of natural objects, as orange, apple, onion, tomato,

potato, egg, simple leaf.

FORM II.

NATURE STUDY.—Animal Life: Life history and habits of domestic animals and of familiar wild animals, as the squirrel, chipmunk, robin, crow; earth worm, habits, structure, uses; toad, habits, structure, uses; observation of live insects and their activities, comparison of young and adult stages.

Plant Life: Co-operative and individual work in school garden; cultivation of plants in pots with observation of the development of leaves and flowers, parts of leaves and flowers; change of flower to fruit and of fruit to seed; functions of the parts of flowers; the forms and uses of trees; activities connected with forestry and lumbering, with study of pioneer life and present conditions on the prairie.

Observation of farm, garden and household operations.

. Geography.—Continued observation of local land and water forms. vation of highest points in the neighborhood, the chief slopes, hills, valleys, divides, etc. Special study of a brook, creek, or river, to see origin, direction, size, work of draining, eroding, carrying, plant and animal life along banks, etc-Representation by drawing and modelling of typical surface features actually The earth as a whole: Form, size, rotation, cause of day and observed by pupil. night; sources of heat and light. Introduction to globe and map of the world. Surface: Continents, islands, oceans. Local commerce: Articles of exchange, collecting and distributing centres, water supply and sources of food in urban centres, means of transportation, routes. Observation of weather: Winds, direction, force; clouds; rainfall; frost; changes of season; characteristic features of each season; systematic weather records; general notions of climate; record of moon's phases, with drawings of their appearance. People of the locality, nationalities, appearance, original homes, etc.; child life in other lands. of any places of historical interest in the neighborhood.

ART.—Study of color continued. Color and freehand expression.

Free drawing of plants and other common objects; pencil sketches of common objects. Water colors: Fall flowers and leaves with brilliant autumn tiats; butterflies and other insects; live or mounted birds; fish, etc. Memory, imaginative, and illustrative drawing. Study of pictures,

Constructive Work.—Paper cutting for simple patterns and designs. Ruling in geometric forms and coloring these. Simple cardboard and paper construction, as wall-box, chair, tray, etc. Ornamentation of constructed objects by coloring and drawing. Modification of models; original work. Basket and raffia work. Clay Modelling of natural forms, as apple, beet, banana, leaf, apple and twig, etc. Common objects: Cup with handle and saucer, flower pot, bat, piece of coal, etc.

Free modelling.

FORM III.

NATURE STUDY.—Animal Life: Adaptation of different kinds of animals to their respective habits and surroundings; birds, life history of types, habits of wild fowl in different seasons; fish, forms and uses of different parts of the body, food and how obtained; life histories of moths, butterflies, beetles and grasshoppers; useful insects, as ladybird and dragon fly; harmful insects; Nature's insecticides.

Plant Life: Germination of seeds under controllable conditions and in the school garden and window-boxes; opening of buds; study of the forms and functions of the parts of plants, and comparison of these forms and functions in different plants; observation of the culture of farm and garden crops and of orchard and shade trees; the observing and the distinguishing of the common

forest trees.

Different kinds of soil, as sand, gravel, loam, leaf-mould and clay; experiments to ascertain how soils are composed, whether of mineral or decayed organic material, and which best retains water. Additional phenomena of spring in the vicinity of the school, cause of snow melting, ice floating, etc.; how nature prepares the soil for growth of plants. Distinction between hard and soft, pure and impure water; tests and methods of purification of water.

Sources of Heat: Experiments to show the effects of heat in the expansion of solids, liquids, and gases; practical applications. Temperature; thermometer, construction and graduation. Methods of transmission of heat, conduction,

convection and radiation; causes of winds and ocean currents; ventilation.

Geography .- The Earth as a Whole: The earth in space. Observation of phases of the moon; 'relation of the earth and moon to each other; rotation of the earth, direction, time and rate, effects; revolution of the earth, path, direction, time and effects; general observation of stars, difference between fixed stars and planets; observation of position of north star. Necessity and use of imaginary lines: great and small circles, latitude and longitude, elementary netions only. Relief: world slopes. Drainage: world-water partings, world basins, world river system, heat belt, light belts. Continents: locations, relief, drainage and coast line of each continent. Local, physical, and political geography: relation of township, town or city to county, of county to province, of province to country, Position of country in continent. Observation and description of the occupations of men and of local industries, emphasizing those that are typical. Collection of Pictures, sketches, materials, and products. Dependence of local industries and commerce on soil, climate and other local physical conditions; and consequent localization of settlement, routes of travel, mills, villages, towns, and cities.

ART.—Drawing of plants, insects, etc., in any appropriate medium. Arrangement in spaces, applications in borders, surface patterns and rosettes in color, applied as far as possible in connection with constructive work. Relative positions of views of geometrical figures in thin cardboard; simple geometrical problems. Study and drawing of details of Greek ornament and vase. Water color. Simple landscapes from window or out-of-doors. Study of pictures.

Constructive Work.—Cardboard construction and ornamentation continued. Whittling in wood with a knife. Basket and raffia work.

FORM IV.

NATURE STUDY.—Animal Life: Relation of fish, birds, and wild animals to man; life histories of conspicuous and economic insects; organs and functions.

Plant Life: Study of organs of plants and their functions; study of economic and wild plants from seed to fruit in the school garden, home garden, farm, and forest; weeds injurious to crops and methods of destroying them; buds

and twigs; wood, rings, grain and bark, uses, etc.

Observing local minerals and rocks, their properties and uses; experiments to show composition of soils and their relation to drainage, temperature, etc.; varieties of soils adapted to different crops; fertilizers, etc. Implements and tools used on the farm and in the household, mechanical principles applied in their construction.

The atmosphere: its composition, combustion, simple experiments, study of candle flame products; changes produced in the air by respiration; reciprocal relation of plants and animals as regards the atmosphere; impurities in air.

Gravity; air and liquid pressure, the barometer. Cohesion and adhesion, the nature of these forces; phenomenon of solution and diffusion; amorphous and crystalline forms of matter. Practical use of heat, steam, and electricity in connection with the study of industries.

GEOGRAPHY .-- Observation of some of the more prominent constellations, as the Dippers, Orion, Cassiopeia, and of planets visible in the early evening.

Climate: Distribution of light and heat; observation of sun's apparent movements through the year; light zones, how determined, names, boundaries, variations in length of day and night; isothermal lines, heat belts, general location, cause of variation from light zones, boundaries, movements; winds, cause, winds of torrid and temperate belts, land and sea breezes, peculiar winds, uses of winds; observation of the progress of storms by means of daily weather records and government weather maps; ocean currents, general character, names and location of those of chief importance; rainfall, amount, how measured, regions of great rainfall; deserts.

ART.—Adaptation of natural forms to purposes of decorative design. hand perspective. Simple geometrical drawing, combination of units of design in geometric patterns, combination of scrolls and geometric units or industrial and ornamental work. Working drawings of type forms. Simple geometrical problems.

Constructive Work -- Manual Training (Optional). -- Use of simpler woodworking tools, as saw, chisel, plane, rule, gauge. Exercises embodied in a complete useful model, and intended to give facility in the use of these tools, as laying out and truing up pieces to dimensions; cutting grooves; making of objects easily constructed and either useful or ornamental, as rulers, keyracks, boxes, brackets, brush-holders, pen-racks, inkstands, school apparatus, etc. Short talks on the construction of tools and on the material used.

PHENOLOGICAL OBSERVATIONS.

The scheme of observation work practised in the Nova Scotia schools is worthy of note. It has been the basis of their Nature Study work for several years. The Department of Education furnishes each school with two printed schedules to fit the school register; these forms call for a recording from day to day of the observations of the children made going from and coming to school-The teacher, of course, is responsible for the accuracy of the observations, and the recording of them. At the end of the year one copy of the report is sent into the offices at Halifax for scientific compilation, and the other is filed in the school for future reference. Smaller schedules are sent out, too, for pupils' use.

The observations are on the first appearance of flowers, birds, etc., and are known as "phenochrons," or "phenological observations." A few examples are given here as suggestions. Teachers could rule similar sheets and insert them in

the school register.

NAME AND ADDRESS OF THE TEACHER OR OTHER COMPILER OF THE OBSERVATIONS RESPONSIBLE FOR THEIR ACCURACY.	When First Seen.	When Becoming Common.
(WILD PLANTS, ETC.—NOMENCLATURE as in "Spotton" or "Gray's Manual").		
1. Alder (Alnus ineana), catkins shedding pollen. 2. Aspen (Populus tremuloides), 3. Blood root (Sanguinaria Canadensis), flowering 4. Hepatica (H. triloba, etc.), flowering 5. Strawberry (Fragaria Virginiana), flowering 6. Dandelion (Taraxacum officinale), flowering		
(CULTIVATED PLANTS, ETC).		
7. Cherry (Prunus Cerasus), flowering 8. "fruit ripe. 9. Apple (Pyrus Malus), flowering 10. Lilac (Syringa vulgaris), flowering. 11. Red Clover (Trifolium pratense), flowering 12. Potato (Solanum tuberosum), flowering		
(FARMING OPERATIONS, ETC).		
13. Plowing begun 14. Sowing 15. Planting of Potatoes begun 16. Shearing of Sheep 17. Hay Cutting 18. Grain Cutting 19. Potato Digging		
(METEOROLOGICAL PHENOMENA).		
20. Opening of (a) Rivers, (b) Lakes without currents		
	Going North or coming in Spring.	Going South or leaving in Fall.
Desco prod		
(MIGRATION OF BIRDS, ETC). 24. Wild Geese migrating 25. Song Sparrow (Melospiza fasciata) 26. American Robin (Turdus migratorius) 27. Kingfisher (Ceryle Alcyon) 28. King Bird (Tyrannus Carolinensis) 29. Bobolink (Dolychonyx oryzivorus) 30. Piping of Frogs		

LIVING COLLECTIONS.

It is not necessary that specimens should be dead and dried, for living things are always of greater interest. Neither is it necessary to keep birds or animals or frogs or fishes in the school-room, though even this has been done with profit, and an aquarium for the development of tadpoles, small fishes, insects, etc., is quite practicable in some places. Potted plants are already common in the windows of well-kept school-rooms.

But trees and shrubs are easily planted and form a permanent living collection of constantly increasing value. They attract the birds and other forms of life and shelter the wild flowers. In this way they prepare for wider Nature:



Fig. 2. From Bailey's "Hints on Rnral School Grounds."

Study, and, therefore, deserve first attention. Arbor Day need not be limited to one day, but should rather keep pace with a growing interest in trees and plants. No school can afford to neglect the planting of trees and shrubs to beautify its grounds and interest its scholars.

In transplanting from the bush or from a nursery a few simple rules should be kept in mind. The tree joins itself to the soil by fine fibrous roots, and these should be disturbed as little as possible in the uprooting. The roots should also be protected from sun and wind and brought into close, firm contact with the earth in their new home. This is secured by trampling and pounding good soil (with water added if convenient) around and between the roots, in a hole rather broader and deeper than seems necessary, so that no air spaces can exist. All this is best done in cloudy or rainy weather; but in any case many of the roots will be lost, and the top must be reduced in proportion. There is little danger of over-trimming, for a healthy stem will produce new branches if able to support them.

The Ontario Agricultural College has two forest nurseries in which it grows seedlings for distribution to the rural schools and farmers of the Province. The intention is to help the latter to re-cover waste land with trees or to improve a run-down woodlot. The trees for the schools are for windbreaks and decoration of the school grounds. For these seedlings application should be made in the winter to the Forestry Department, O. A. C., Guelph. The only charge to the school is that for express. School grounds may thus become object lessons in forestry for the farmers of the neighborhood.

School gardens are now attracting much attention as an aid to Nature Study, and they are encouraged by a special grant from the Department of Education.

Such means improve the children as well as the grounds, and have a permanent influence over the whole neighborhood.

At a recent meeting of the Canadian Forestry Association in Toronto a gentleman described such a garden made in the grounds of the school where he



Fig. 3. Insect life in winter.

traught twenty-five years ago. It had trees and shrubs from the neighboring woods and flowers grown from seeds, all planted and cared for by the teacher and pupils. The trees are now a foot or more in diameter, and farmers' wives in that section still grow flowers descended from the little school garden. That teacher is now a member of Parliament for the same constituency, and deserves his promotion as well as the familiar bouquets still brought him by his old pupils. Was it worth while to take a little trouble with that little school in the days when Nature Study had not yet received a name?

Our illustration shows a collection of living things with no signs of life. These are cocoons of moths and butterflies gathered during the winter and waiting to be awakened from their sleep of transformation. In the autumn they were caterpillars; the warmth of spring, or of the school-room, will bring them out as beautiful winged creatures.

An aquarium may be arranged for the study of water insects and animals.

Failure to keep a healthy and sightly aquarium often attends the efforts of a beginner through neglect of proper care and management. The secret is to imitate Nature, i. e, to make conditions similar to those of some pond where water life flourishes, and to get a good balance of water plants and water animals. When this balance is established the aquarium requires but little attention beyond

the addition of water to replace that lost through evaporation. Large battery jars and preserve jars serve admirably for this purpose. Two or three inches of clean sand or fine gravel should be put in the bottom, and the water cress or other plant planted in and given a few days to get a fair setting. The animals should be put in with caution; too few are better than too many; small specim ins have better chances than larger ones. It must be remembered that if the green plants can not use up the carbon dioxide exhaled by the animals there may be such an excess of the gas in solution that the animals are smothered. The plants put back oxygen into the water from the assimilation of the carbon dioxide; this is why this kind of aquarium is known as balanced.

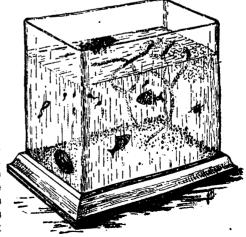


Fig. 4. A very small pond and its people.

The following common water plants and animals are suited for aquaria: Water-cress, duckweed, water-milfoil, stone-wort, waterweed, snails, water-scavengers, beetles, water-boatmen, back-swimmers, mosquito wrigglers, caddis-worms,

clams, crayfish, small fish.

A few snails will keep the glass from becoming coated with algae and lime deposits. It may be well to change the animals from time to time. Have the class make observations on a clam for a while, then replace it with a crayfish, etc. The crayfish may be fed small bits of meat, the fish with fine bread crumbs. Care should be taken, however, not to pollute the water with an excess of food.

COLLECTIONS OF PRESSED PLANTS AND LEAVES.

A flower that has withered and dried in the usual way is useless; it has lost even the likeness of its growing self, and has become brittle, faded and crumpled. But if dried instead between sheets of porous paper under heavy pressure it retains

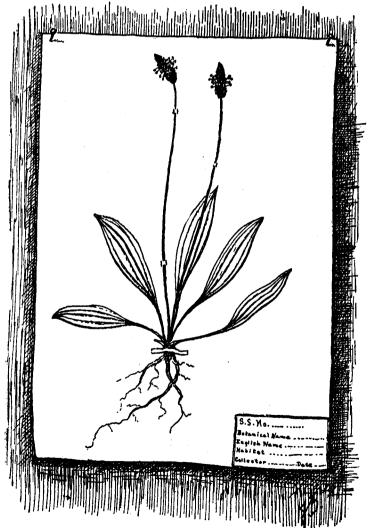


Fig. 5. A specimen properly mounted. What weed is this

much of its original color and strength in a form that is very convenient for examining as well as for preserving and exhibiting. When thus prepared and mounted on a suitable card with a proper label it forms a useful permanent specimen for study or comparison.

MATERIALS. To prepare plants properly in this way, the following will be Drying paper (carpet felt or coarse porous paper), sheets of tea-paper (or smooth newspaper leaves), two pieces of smooth board 12 inches x 20 inches; a few weights (suitable stones of about 10 lbs. each will answer); mounting paper, in sheets 112 inches x 162 inches; liquid glue or strips of gummed paper; labels showing botanical and common name, date, place and collector; a collecting box or vasculum, and a note-book.

DRYING. The entire plant, as far as possible, should be in the collection. When this is impossible, as with trees and shrubs, branches with leaves, or leaves and flowers, should be collected and preserved. In drying plants, care should be taken to secure the specimen (free from outside moisture), without breaking any Portion of it. It should be spread very carefully between two leaves of tea-paper with sheets of drying paper above and below. Many plants may be placed one above the other, separated by drying paper, and pressed at the same time by weights on the upper board. When a plant is placed thus to be dried, a note should be put with it stating its name, the date of collection, the locality where it was collected, and the collector; for one must not trust too much to memory in these The collection will very likely grow rapidly and experience will soon show the need for keeping notes of every plant collected. Carpet felt makes excellent drying paper, and can be obtained at most dry goods stores for about four cents a square yard. Instead of tea paper, ordinary newspaper, cut up into convenient sizes, may be used. The secret of drying plants well is to change the dryers frequently. The more water the plant contains the more frequently should the dryers be changed, and in some cases this might be done daily.

MOUNTING. Each plant should have a separate sheet to itself and all the mounting paper should be of the same size, color and quality. The standard herbarium mount is a sheet of white ledger paper, 112x162 inches. For a school collection or Fall Fair exhibition this size should always be used; but for a child's collection a smaller sheet might well be substituted. While it may often prevent the showing of whole plants, it will allow the specimens to be kept more conveniently at home, and, therefore made of more use. Should a pupil expect to make an extensive collection, the standard sheet should be used.

Before fastening the dried plant to the paper, it should be placed in different positions in order to select the best artistic effect. The neatest fastening is made by putting neat s.raps of gummed paper over the stems through small holes in the paper, and fastening at the back. The leaves may be fastened by the application of a little mucilage here and there. It is best to have the gummed paper, used for strapping, of the same color as the mount; it may be made by coating some of the mount paper with mucilage

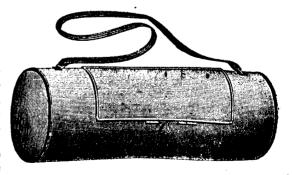


Fig. 6. A Collecting Box.

and letting dry; the semi-transparent gummed paper used for repairing music answers very well. The straps should be put on neatly and systematically; cut to the same widths and lengths as far as possible, and laid in the same directions.

A close tin box or vasculum about 18 inches long and of a shape suitable for carrying by a shoulder strap, is very useful for collecting fresh plants, and may be easily made by any tinsmith.

COLLECTIONS OF GRAINS AND GRASSES.

Specimens of mature grains, grasses or clovers may be easily prepared and form an interesting exhibit. These should show the complete plant, root, stem, leaves and heads (or merely the heads with a few inches of stem), with the name of kind and variety in every case. Such plants may be pressed and mounted on the usual card by carefully bending the stalk when too long, or they may be kept straight and tied in bunches, supported, if necessary, by a light rod or lath.

COLLECTIONS OF SEEDS.

It is worth while to learn to know the seeds of noxious weeds that are often mixed with the seed of grain, grass, or clover. These should be collected and kept in suitable small bottles with proper labels. The best vials for this purpose are of clear glass with wide necks and closed by a metal screw cap-Those holding 1 drachm are of suitable size, being about 2 in. x in. and can be secured through local druggists at a cost of 15 to 20 cents per dozen. These vials are best shown on wood or cardboard mounts to which they are secured by brass clamps, loops of cord or elastic. Seeds must be quite ripe and dry to prevent moulding, and the pods or heads should be enclosed as well as the clean seed.

They may also be mounted on cardboard by glueing them on with a white or liquid glue like Le Page's; in such case they should be protected by a cardboard square or ring, a brass ring, or a ring cut from a piece of rubber tubing, being glued on so as to surround them. Mounts in plaster of Paris placques are also good; the placque is made by pouring the plaster into a button-box or the lid of a shoe-box; when it is set dry and hard, holes may be cut out for the seeds to lie in, it is covered with a neat glass top and passe-partouted. Instead of the plaster

a sheet of cardboard with holes cut by a gun-wad cutter may be used.

The following letter from Mr. G. H. Clark, of the Dominion Seed Branch,

Ottawa, is for teachers as well as Institute lecturers :-

"Farmers' Institute lecturers can do much to advance the interests on the part of the farmer boys attending the rural schools in the collecting of weeds and weed seeds and the building up of a large reference collection of properly named weeds and their seeds, in the schools. To such work all who are in a position to assist, should give their support. There is no way of inculcating in the boys habits of observation and a knowledge of weeds and plants so effectively as by interesting them in collecting and properly naming specimens for a collection. It was in part looking to the assistance that would be given to such that the Seed Branch of the Dominion Department of Agriculture, working in co-operation with Dr. Fletcher of the Experimental Farms' Branch, arranged for the issue of a special Weed Bulletin to contain fifty-one Canadian weeds and their seeds, illustrated in their natural colors. This bulletin will be distributed free of charge for use in libraries of farm homes and rural schools, from which personal applications for it

Seeds for identification may be sent to Mr. Clark or Dr. Fletcher, Ottawa;

or to the Botanical Department, O. A. C., Guelph.

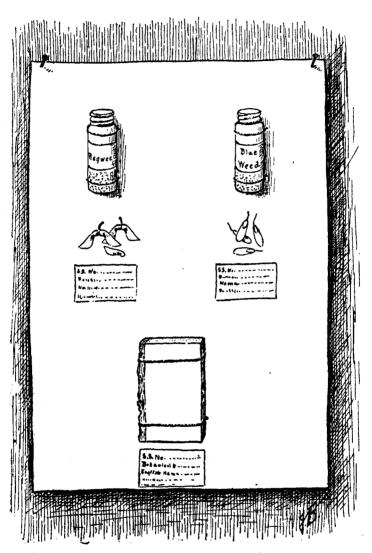


Fig. 7 What are the Tree Fruits?

COLLECTIONS OF FRUITS.

The dry fruits of trees and shrubs are equally interesting and may be fastened in the same way, or by means of glue or mucilage, on similar cards. The keys of the Maples, the acorns with their cups, the winged fruits of Elm, Ash, and Pine, all serve for important lessons on the reproduction of trees and the distribution of their seeds. Many Canadians have never seen the seed of the Pine; and many can see no connection between the cones at the summit and the seedlings at the foot of the giant of the forest. A collection of tree seeds carefully mounted and named is an excellent lesson on forestry.

COLLECTIONS OF WOOD.

Sections of wood from the various kinds of trees form an interesting and useful collection. These should be prepared in such a way as to show the bark, and two planed surfaces. The size should be 3 inches in length by 1 inch in width, by ½ inch in thickness. Such pieces may be neatly fastened on cards like those used for pressed plants and should be labelled in the same way.

It is better to use sections from the body wood of the trees, but this is often inconvenient, and the size given above can be very easily secured from a branch without destroying the tree. Similar sections showing the work of insect borers or of woodpeckers may be mounted in the same way and will be very useful.

INSECT COLLECTIONS.

Insects may be collected at all seasons of the year, but the best time is undoubtedly the summer months. Many collectors find the moths and butter-flies most interesting on account of the extreme beauty of their wings; others find



Fig. 8. The Boy and the Insect.

greater interest in beetles; still others prefer the study of groups, which are not so beautiful to the ordinary observer. Insects of special harm or use, for any reason, are always interesting.

The great majority of the mothsmust be caught at night, for they rest during the daytime. Most of them are readily attracted to lights, and may be secured by devices such as trap

lanterns. Many insects are also attracted readily by sweets, such as sugar or molasses, and if a sweet solution is brushed on the bark of trees, moths frequently gather at such trees after dark and are easily captured.

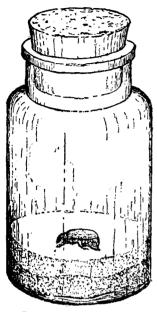


Fig. 9. The Poison Bottle.

The following articles are needful for collecting: Cyanide bottles, one or more; insect pins; cigar boxes or insect cases: spreading boards, different sizes; date and locality labels; larvæ bottles.

> The cyanide bottle is needed for killing insects before they can be pinned. (Fig. 9.) This bottle may be made as follows: Place two or three lumps of evanide of potassium, of the size of beans. in a wide-mouthed bottle, pour in sufficient water to cover the lumps, and add enough plaster of paris to take up the water. If the bottle is left uncorked for a short time, the plaster will rapidly set and harden. Care should be taken not to inhale the poisonous fumes which come from this bottle, nor to leave the cork out for any length of time, for the cyanide would soon be lost

through the escape of the tumes. It is often desirable to place a circle of thick blotting paper on the surface of the plaster to absorb any moisture which may form.

Insect pins do not readily rust when placed through the bodies of insects. Probably the best

0. 1, 3, 5, Insect Pins. German Steel Pins. Fig. 10.

are the black japanned kind. The most desirable pins for the ordinary work of the collector of insects are Nos. 1, 3, 5,—No. 1 being suitable for small insects, No. 3 for insects of medium size, and No. 5 for insects with larger bodies. German steel morning pins with

glass heads are second best, and may be had at any dry goods store. Common pine should not be used. Care should be taken when pinning insects to thrust the pin through two-thirds the length, so that from one-third to one-quarter of the pin Projects above the back of the insect. The beetles should be pinned through the right wing cover; other insects through the thorax, or that part of the body just back of the head. (See Fig. 11).

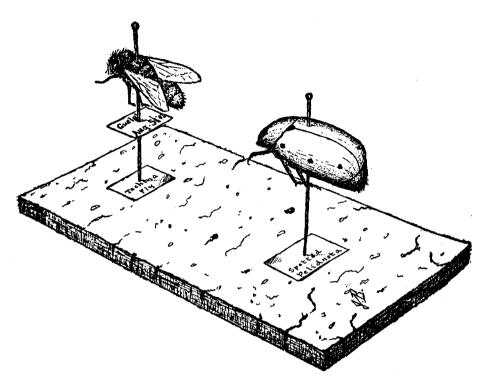


Fig. 11. Method of Pinning.

A handy boy can readily make an insect net for himself. All that he requires is a broom handle, three feet of stout wire, a little heavy sheeting, and one yard of cheese cloth. The wire can be bent into a circle of about ten inches in diameter and the ends fastened firmly into the end of the broom handle. The cheese cloth is made into a bag and attached to the band of sheeting which folds over the wire. (Fig. 12).

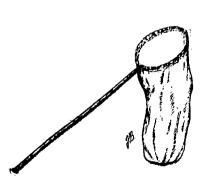


Fig. 12. The Insect Net.



Fig. 13. The Insect and the Boy.

The collector will be a little awkward at first in the use of the insect net, but with practice the wiliest and most rapid of insects may be captured. Care is needed in transferring the insects from the net to the cyanide bottles lest the wings and legs should be injured.

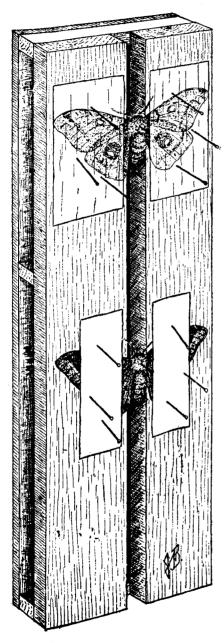


Fig. 14. The Spreading Board.

Moths and butterflies when captured seldom die with their wings outspread, so it is necessary to use spreading boards for those forms which we desire to preserve in this position. Fig. 14 shows the construction and use of a spreading board. Two pieces of pine, fastened together by cleats at the end, are left wide enough apart to admit the body of the insect. Narrow strips of cork are then tacked on the under side of the pine strips so as to form a bottom to the groove and to serve as a support for the pin upon which the insect is placed. Another broad strip is nailed to the cleats and forms the base of the spreading board. Of course the insects must be pinned to the spreading board before they have time to become brittle, and while they are in a relaxed condition. It will require some patience and skill to spread the wings of the smaller moths without injuring them, but practice make perfect. Should the insects become dry, their muscles may be relaxed by putting them in a moist chamber, a gem jar with damp sand in the bottom will suffice. It will take a week or ten days for the dry-If they are removed before being completely dried the wings The dryness may be estimated by the rigidity of the body. Fine lines across the board enable one to spread neatly.

Cases are necessary for holding and displaying the insects captured. At first the collector may use cigar boxes very satisfactorily, but the time will come when he will not be satisfied with anything less than good insect cases, which will keep out dust and minute insect pests.

The bottoms should be lined with sheet cork, which can be purchased from dealers in insect supplies, or with bottle wrappers obtained from druggists. For exhibition purposes insect cases should have glass covers, if possible. Collectors who wish to make their collections look tidy, neat and artistic may line their cases with fine, glossy white paper. This improves very much the appearance of the collection as a whole.

Every specimen which has been placed in a collection should have a date and locality label and a name label attached. These labels may be written free hand or they may be printed with pen and ink. Printed labels, as a rule, look much better than written ones. The proper time to place date and locality label upon the insect is at the time of pinning, and it is usually placed below the insect about a third of the way up the pin. The name label is placed near the bottom of the pin.

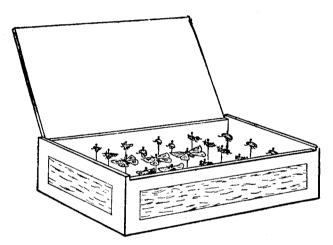


Fig. 15. A Simple Insect Case.

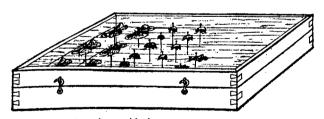


Fig. 16. A good case with glass cover. Specimens not labelled.

With regard to the preservation of the larvæ of insects, much may be said. It is important that collectors should preserve the larval forms as well as the other stages of the insect, for it should be borne in mind that those collections are of the highest value educationally which show the life history of the insect in all stages—the egg, the larva, the pupa and the adult. The larval stage of the insect, moreover, should be carefully preserved throughout all its molts, for the mature larva frequently differs considerably from the younger forms. Some collectors place the larvæ in

liquid in vials; others prefer to inflate them and have them placed on pins beside the adult forms. For school purposes, however, the vials are to be preferred.

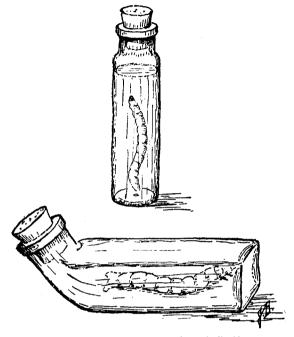


Fig. 17. Vials for preserving larvæ in liquid,

A good preserving liquid may be made as follows: 50 parts methylated alcohol, 50 parts water, 4 parts formalin. This mixture can be prepared by any druggist at a cost of about 25 cents per pint. It must be kept closely corked, as it evaporates very readily. Special bottles with bent necks are very suitable, but rather expensive, costing about five cents each. Two-drachm homeopathic vials with wide mouths may be obtained from druggists at much lower rates and will answer very well.

HISTORICAL COLLECTIONS.

Objects that link the past to the present are of great educational interest and value. Such things are found in every neighborhood, and the school is the proper place for their keeping and interpretation. The boy who has picked up an ancient arrowhead or pipe from the site of some long-fergotten village may well feel a personal interest in the early exploits of Huron and Iroquois. But we need not go back to Indian times for relics of the past. The early pioneers of our own race have disappeared, too, and their primitive weapons, tools and manufactures are hardly known to the children of to-day.

How much true history would be suggested by a few articles from a settler's outfit of one hundred years ago? The flint-lock musket, and the smooth hollowed stone used for grinding grain by hand, are almost as

far removed from the present as are the tomahawk and the bow-and-arrow. Those who possess such relics would often be glad to place them where they could be assured of permanent care and usefulness to successive generations of children.

Articles of this class should be carefully numbered and described in a note-book or by means of tickets securely fastened to them.

Small objects are best fastened on cards in the same way as specimens of wood described on page 63.

Such a collection needs little care or preparation, and if properly used will be both interesting and instructive.

Mr. David Boyle, of the Education Department, Toronto, is our best authority on all that pertains to these relics of our past history, and he is always ready to assist collectors in understanding their "finds." In case of doubt or difficulty he will be glad to hear from teachers and scholars, and will be able to explain most of the objects that come under this heading.

The Provincial Museum, of which Mr. Boyle has charge, is one of the best, in Archeeology, on this continent, and specimens of more than local interest should be deposited there for public use and safe keeping.

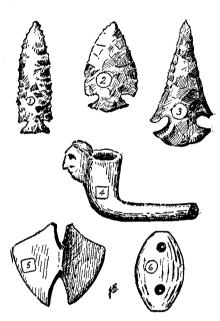


Fig. 18. What are these? Who made them j

Due credit will be given for all such donations, which will be exhibited over the name of the collector.

Grig. 19. What birds are these? Where is their nest?

MISCELLANEOUS NOTES.

There are many things not mentioned previously that might find a place in a good school collection of natural objects. Such are specimens of the work of animals: birds, insects, squirrels, etc. The wasps were the first pulp and paper makers, just as the beavers were carpenters and architects and the birds weavers and masons. This work is worthy of careful study and can be easily kept in a school-room.

Boys often collect birds' eggs, but this is a destructive practice and should be discouraged in every way in the making of children's collections. A careful description of a nest and its eggs, with dates of building, hatching and flying in the "Nature Notes" of the school-room, is far better than the ruined home with its empty shells. It should be known also that the destruction of harmless

birds or their eggs is an offence punishable by fine or imprisonment. In this way the law recognizes the value of the birds in destroying insect enemies of farm and orchard, and in entertaining us by their songs.

There is one bird, however, that deserves no such protection. It builds no nest at all, but lays its eggs along with those of one of its neighbors, where it hatches out and bullies the honest nestlings, often causing their death. When such an egg is found in a nest it should be destroyed for the sake of the others. What hird is this?

In many places very good local collections of rocks and minerals may be made. These should be ticketed or labelled so that their names and localities may be readily seen, and in the case of useful minerals the composition should also be stated in some simple way. For instance, magnetic iron ore might be shown as containing nearly three fourths of its weight of iron, or crystalline marble as merely a form of limestone.



Fig. 20. One of the earliest apring birds colored "like the *ky above and like the earth below."

Did your ever find the nest?

Stones or pebbles which show the action of natural forces like frost, running water, etc., have an interest and a use without regard to the materials which they contain. Specimens of fossil animals or plants are of great value as

Fig. 21. A good drawing. Do you know this nest and its owner?

illustrating the simple world history, now taught in connection with physical geography.

Besides the actual objects as here described, representations such as pictures, drawings, watercolor paintings and photographs

from nature are all valuable additions and can be used to beautify the school-room as well as to improve the minds of the pupils. Scholars should be encouraged to draw simple natural objects, and the best work should become a part of the school collection. This is one means of cultivating the natural fondness for expression by drawing and coloring which has been too little helped by our schools.

A SCHOOL MUSEUM CABINET.

In most schools it is not possible to have collections kept in glass museum-cases, even if it were thought desirable. Neither is it wise nor practicable to keep exhibits about the walls. A well-made, dust-proof cabinet is desirable. It-might be made on the "unit" system used in modern library building, to com-

mence with a unit of about six drawers, others added as required. One set of drawers could be used for pressed plants, another for rocks and minerals, others for insects, bird skins, Indian relics, seeds, grains, etc. Such a collection would often be of use in the school work. The drawers should be proportioned so as to use a size to fit the herbarium mounts $(11\frac{1}{2} \times 16\frac{1}{2} \text{ in.})$ as a unit.

LEAGUE OF THE EMPIRE.

The League of the Empire is an organization having for its general object the affiliation of the schools in different parts of the British Empire. It accomplishes this by arranging for friendly intercourse and the exchange of descriptive letter-writing between pupils; exchange of school essays, illustrated, if desired, by maps, brush work, snap-shots, or dried specimens; also of Nature Study work, drawings and other art work; of objects of interest for personal or school collections, and of articles for school magazines; for exchange of information between teachers, of time tables, and of statistics regarding methods of work and conditions of life in different parts of the world, so that knowledge of such parallel conditions (of agriculture, industries, various branches of education, etc.) as are individually needed may be brought within reach of all for their practical use.

It publishes "The League of the Empire Monthly Record," which treats in a general way of imperial matters of interest to the schools, and "Our Jabberwock," for the junior section of the League. The 'Record" is free to all members and schools paying the annual fee of five shillings; the monthly "Jabberwock" is nine shillings per annum.

Applications for membership should be sent to Mrs. Ord Marshall, Hon. Sec., Caxton Hall, Westminster, London, England, enclosing 5s. for the school's membership fee and a letter to be sent to some school in that part of the Empire selected.

Apply on a form made out as fellows:-

FORM OF APPLICATION.

Name of School
Postal address
Name of headmaster or mistress
Boys' or girls' school
Primary or secondary
Class from which pupils are mainly drawn

Range of pupils's ages, between and years.
Part of the Empire with which it is wished to correspond
Signature of Applicant

Should personal membership be desired by pupils under sixteen years of age, the annual fee of sixpence should be added for each. This entitles them to be placed in correspondence with a pupil of a school in some distant part of the Empire. From many Canadian schools an interesting and instructive correspondence and Nature Study interchange is being carried on; try it for a year.

SCHOOL CHILDREN'S COMPETITIONS.

For the guidance of teachers and Fair officers, extracts from the prize lists of a few exhibitions are given. It is hardly necessary to call attention here to a danger of turning a proper educational factor into an improper and harmful scramble for prize money; teachers should guard themselves and their pupils against it. Nature collections that have been made solely for exhibition purposes should be condemned; if they have been made in the natural course of school work and from a natural, healthy impulse to acquaint oneself with nature's forms and to fix the knowledge in a display, well and good. Perhaps many small prizes would be better than a few large ones. Extensive and elaborate collections should not be given undue credit over the smaller and simpler. One of the chief aims of the judges and directors should be to give a general stimulus to this branch of school study, and the small child and the simple effort should not be lost sight of.

THE CENTRAL EXHIBITION, GUELPH.

The Central Exhibition, held at Guelph, always has good school exhibits in writing and drawing, domestic science, manual training and Nature Study.

NATURE STUDY.

General Regulations.—1. These prizes are offered to encourage Nature Study in the public and separate schools. The teacher must certify that the collections have been made in connection with the school by the co-operation of the pupils, or by an individual pupil, and must have been done since last Exhibition.

- 2. Each exhibit must show plainly the name and place of the school, and the name of the teacher.
- 3. The preparation of exhibits should be as nearly as possible according to directions given in the "Hints on Nature Collections," a bulletin prepared by the Macdonald Institute.

PRIZE LIST.

- 1. Collection of wild plants and flowers, picked and pressed, while in bloom, showing root, and mounted, and correctly named.
 - 2. Collection of noxious weeds, pressed and mounted.
- 3. Collection of seeds of noxious weeds, in glass vials, mounted on cards—vials not necessarily full.
- 4. Collection of grains in the head, 5 heads of each variety, stems about 12 inches in length, supported on cards.

- 5. Collection of grasses and clovers, 5 stems of each as in section 4.
- 6. Collection of leaves and twigs of cultivated or forest trees.
- 7. Collection of native woods, showing bark and surfaces. Each specimen not to be more than 5 inches in length.
 - 8. Collection of insects, injurious or beneficial.
- 9. Collection of noxious weeds, newly pulled, each bearing a label or tag with name and locality. Specimens should show the complete plant, with flowers and fruit, if possible, but care must be taken not to scatter seeds by means of any of these exhibits.
 - 10. Bouquet of cut flowers grown on school grounds or in school-house.
- 11. Drawing of a plant, bird and insect, grouped if possible, by a pupil of the school.
 - 12. Photographs of natural scenery, by a pupil of the school.
- 13. Naming competitions, open to individual pupils of the public or separate schools. This will include the naming and discussion of several varieties of apples, grains, weeds, wild flowers, birds or other common outdoor objects.
- 14. A collection of nature notes kept in the school by the teacher and pupils, and showing interesting events from day to day in the outdoor world. Such may include the arrival, nesting, and food of birds, the opening of flowers, and appearance of insects, the leafing of trees, the sowing or planting of crops, the blossoming of fruit trees, the occurrence of storms or floods, and any similar items of interest. These should be written as far as possible, by the pupils themselves, under the teacher's guidance, and should give date, place and all necessary details over the signature of the observer. A neat scribbling-book, written inpencil, will be satisfactory for this purpose. It will be judged for neatness, completeness, and accuracy. This would require only a few minutes at a set time each day, say the first thing in the morning, and would be a splendid exercise in training the observation.
- 15. The best arranged exhibit of roots, vegetables and grain by the teacher and pupils of a public school section.

THE NORFOLK UNION FAIR, SIMCOE.

The regulations and prize lists for Nature Study at the Norfolk Union Fair, held at Simcoe, are also suggestive.

NATURE STUDY.

In order to encourage the observation of natural phenomena among the pupils of our schools, the directors of the Norfolk Union Agricultural Society have pleasure in offering the following prizes for competition. It is the intention of the directors to encourage this study of nature as one of the educational features of their exhibition and they ask for kindly co-operation of teachers, parents and scholars.

- 1. These prizes are for competition either by individual pupils or by any number of pupils co-operating, but any number of individual pupils or groups of pupils may compete for the same prize; they are open only to the schools of Norfolk County.
- 2. A card with the name of the exhibitor, the number of the school, and the name of the township or location must be securely fastened to each exhibit.
- 3. Each plant shown in sections 1 and 2 shall be separately tied to admit of individual inspection. The plant of each variety shall be neatly bound together and labelled.
- 4. All the work in connection with each of the exhibits must have been done by the pupils under the direction of the teacher and with his or her assistance or supervision.
- 5. All entries must be made by the teacher on behalf of the pupils, certifying to their correctness. No entry fee in this class. All exhibits must be on the grounds and in position by 12 o'clock on Tuesday, October 17th.
- 6. The prize money shall be paid to the teacher, who shall divide it among the children who have helped in making the exhibit, or use it for the establishment of a library or any beneficial purpose in connection with the school.

PRIZES FOR COLLECTION OF GRAIN, INSECTS, ETC.

- 1. For the best and best arranged exhibit of grain in the straw, the growth of the current year, showing stools, branches, and part of roots, consisting of six complete plants of each variety, with also a pint bottle of each sample of said variety of grain.
- 2. For the best and best arranged exhibit of clover and grasses, the growth of the current year, showing all branches and part of root of each plant. This exhibit to consist of at least six plants of each variety shown—at least six varieties must be shown in each exhibit in this section.
 - 3. For the best and best arranged exhibit of roots, fruits and vegetables.
- 4. For the best and best arranged collection of beneficial and injurious insects, mounted and properly labelled, and arranged in groups.
- 5. Apple-naming competition. A number of varieties of apples will be mixed together. The contestants will then, in the presence of the judges, pick out the apples naming the variety of each, and the quality. Seventy per cent. for correct naming and thirty per cent. for quality. Open to boys or girls of Norfolk County from ten to sixteen years of age.

THE TORONTO EXHIBITION.

At the Canadian National Exhibition held in Toronto, most of the competitions are beyond the children of the public schools, but are nevertheless suggestive for teachers and the older pupils.

1. For best collection of Canadian medicinal plants, common and scientific names attached, not less than 100 specimens. Open to students and others interested in medical preparations.

- 2. For the best exhibit or collection of not less than 15 specimens, in cases of Canadian or foreign birds or animals, the work of the exhibitor, mounted with appropriate surroundings, and labelled with scientific and English names (amateurs only).
- 3. Best collection of bird skins, not less than 200 specimens, scientifically arranged and named.
- 4. Best and most neatly mounted collection of not less than 150 species of insects, representing the seven orders, properly labelled with scientific names; must be personal collection of exhibitor not over 16 years of age.
- 5. Best collection of North American lepidoptera of not less than 400 species, properly labelled and arranged with scientific names.
- 6. Best collection of shells, not less than 100 specimens, scientifically arranged and named.
- 7. The best collection of 50 weeds injurious to farm and garden crops (Canadian flowering plants excluded), the work of the exhibitor, open to school children, resident in Canada, to be certified to by the teacher or some other prominent person. Each specimen to be mounted separately on paper of uniform size.
- 8. A collection of 50 of the best Canadian flowering plants, suitable for cultivation in gardens and school grounds; the work of the exhibitor; open to school children resident in Canada, to be certified to by the teacher or some other prominent person.
- 9. The best collection of Canadian insects, the work of the exhibitor (amateurs only).
- 10. The best collection of 200 insects injurious to Canadian agriculture or horticulture with specimens of injury done, not more than two of any one species to be included in exhibit, the work of the exhibitor (amateurs only).

THE WESTERN FAIR, LONDON.

In the lists of the Western Fair, London, other suggestive competitions may be found.

- 1. Collection of insects. If the exhibit shows the effect of injurious insects upon crops and fruit, due allowance for that feature will be made in judging it.
 - 2. Collection of native reptiles, batrachians and fishes in spirits.
 - 3. Collection of dried native plants, labelled with locality of collection. etc.
 - 4. Archæological specimens.
 - 5. Stamps and coins.
 - 6. Shells and curios.
- 7. Collection of at least twenty poisonous and edible fungi; if necessary for identification, to be accompanied with colored drawings, life size. Each specimen to be marked "Poisonous" or "Edible" and labelled as in No. 3.

- 8, Collection of mineralogical specimens; mineral ores, etc.
- 9. Collection of weeds and their seeds injurious to farmers, gardeners and horticulturists, with common treatment. Weeds to be shown in pots growing.
- 10. Exhibits of the life history of any injurious insect, showing the sexes, larva, chrysalis, etc., and ravages of insects, accompanied with a written sketch. (The names of the pupils who assisted in preparing the exhibit to be given in the written sketch). Suggestions may be got from the photograph of a previous year's exhibit, printed in the report of the Ontario Entomological Society for 1903. A diploma will be given in sections 9 and 10 for each meritorious exhibit.
- 11. Exhibits of at least thirty noxious weeds, mounted on standard paper $11\frac{1}{2} \times 16\frac{1}{2}$ inches. Labelled to show scientific and common names, place and date of collection and collector and a note on habit and noxiousness. The first page to be an index of names and plants, with the pupil who collected each. The papers must be fastened together in some way.
- 12. Collection of at least twenty-five insects properly mounted and named. Exhibits on life cycles and brief notes on habit will receive due consideration in the judging.
- 13. Collection of at least twenty-five native plants properly mounted, fastened together, etc., as directed in section 10 above.
- 14. Collection of at least twelve native woods, showing bark and grain polished and unpolished; bulk of each specimen not to exceed twenty-four cubic inches.
- 15. Collection of flowers, in pots, that have been at least two months in a school-room, and cut flowers raised on the school grounds.

Entry forms must be accompanied by a certificate from the teacher stating the age and school of the pupil, and that from his (the teacher's) own knowledge, or after due enquiry, he believes that the exhibit (except the naming of the specimens) is the bona fide work of the pupil offering the same.

BOOKS ON NATURE SUBJECTS.

The Department of Education now grants liberal assistance to school boards in forming libraries for public schools, and many such have been established in recent years. Each of these should contain good books of reference in the various departments of Nature Study. Children should be encouraged to use these in supplementing their observations, but never as text-books or as substitutes for original work. The teacher, too, needs the help of suitable books of reference, and cannot do his best work without them. We give here a list of recent Canadian books; similar lists of American publications may be had from booksellers or publishers:

•	
	.60 . 40 .90
Birds of Ontario. McIlwraith. 2. Studies of Plant Life in Canada. Traill	50 00 00 00
Modern Nature Study. Silcox and Stevenson	3 0 75 50
GAGE & Co., TORONTO:	60
THE CHAS. CHAPMAN Co., LONDON, ONT.: The Collegiate Science Note Book. McCready	35 25
THE DEPARTMENT OF AGRICULTURE, TORONTO: Reports of Entomological Society. Birds of Ontario in Relation to Agriculture. Nash. Nature Study, or Stories in Agriculture. The Staff of the O. A. C. Free The Weeds of Ontario. Harrison and Lochhead. Insects and Plant Diseases. Lochhead and Jarvis. The Teaching of Agriculture in our Public Schools. James Gardening for Schools. McCready. Free Free	e. e. e.
THE DEPARTMENT OF EDUCATION, TORONTO: Check List of Ontario Birds. Nash	3.
THE DEPARTMENT OF AGRICULTURE, OTTAWA: Annual Reports of Botanist and Entomologist. Fletcher	
THE GEOLOGICAL SURVEY DEPARTMENT, OTTAWA: Catalogue of Canadian Plants. Macoun	

REPORTS ON PHENOLOGICAL OBSERVATIONS.

(Year Ended June 30th, 1906.)

NOVA SCOTIA.

The following extracts from the reports of the specialists to whom the observation schedules sent in were referred for minute examination, study, compilation, criticism and suggestion, will be of interest to all teachers who took part in this work and to all who propose to continue in the future, as well as to others interested in the development of the practical study of the conditions and resources of our country. The study of these notes, it is hoped, may do much to prevent the introduction of errors into future work and to suggest improvement in both the schedules and the methods of observation.

The Province is divided into its main climatic slopes or regions not always coterminous with the boundaries of counties. Slopes, especially those to the coast, are sub-divided into belts, such as (a) the coast belt,

(b) the low inland belt, and (c) the high inland belt, as below:

No.	REGIONS OR SLOPES.		DELIS	•	
II. III.	Shelburne, Queens & Lunenburg Co's, Annapolis and Kings Counties,	" (a)	Coast, (b) North M	ands, (c) High Inland It, (c) Annapolis Va Valley, (e) South Mt	.l-
IV.		(a)	Coast, (b) Low Inla	ands, (c) High Inland	s.
V. VI.	Halifax and Guysboro Counties, A. Cobequid Slope (to the south)	"	"	6¢	
VI.	B. Chignecto Slope (to the northwest),	,,,	"	"	
VIII.	Richmond and Cape Breton Counties,	•••	46	"	
IX. X.	Bras d'Or Slope (to the southeast), Inverness Slope (to Gulf, N. W.),	"	"	"	

These observations are especially valuable as furnishing a stimulus for a portion of the Nature Study work in the public schools of the Province. It is, no doubt, starting very many young pupils on the beginning of an observant course which will make them specially useful citizens; while it substitutes an enjoyable occupation for otherwise monotonous hours spent on the road to and from school. The work has also some scientific value, so that the schedules are bound up in annual volumes to be preserved in the archives of the Province for future students of our climate.

CRITICAL NOTES BY THE STAFF OF PHENOLOGISTS.

REGION I-YARMOUTH AND DIGBY.

A. W. Horner, Principal, Seminary School, Yarmouth.

Thirty six schedules were sent to the Inspectors for Yarmouth and Digby counties for the year 1906: fourteen from the coast, eleven from the Low Inland, and eleven from the

In a number of this year's schedules the dates recorded show that the Star Flower (Trientalis Americana) is still taken for Gold Thread (Coptis trifolia), Lambkill (Kalmia angustifolia) for Rhodora (Rhododendron Rhodora) and the Dandelion (Taraxacum officinale) for Coltsfoot (Tussilago Farfara).

The following dates are too early or they are sports.

```
(WHEN FIRST SEEN.)
      No. 4.
                 111, 113.
                 110, 113-
102, 105, 107, 109, 113.
      No. 10.
      No. 12.
      No. 19.
                 129.
                 115, 125, 126, 132.
      No. 23.
                124, 128.
124, 129.
      No. 24.
      No. 25.
      No. 28.
                       One curious observation was recorded for this number :- " Have seen
                 135.
                " and this from one of the most conscientious teachers in Yarmouth county.
it all winter,
                123, 127, 129, 132, 135, 140 (taken for Gold Thread, I presume).
      No. 29.
     No. 30.
                138.
      No. 32.
                123.
     No. 34.
                145.
                142, 144, 148 (evidently taken for Rhodora).
     No. 36.
     No. 40.
                144.
     No. 41.
                144.
     No. 42.
                137, 140.
155, 161.
     No. 44.
     No. 45.
                145.
     No. 51.
                152.
                137.
     No. 60.
     No. 61.
                140.
     No. 63.
                123, 133.
No. 66. Jan. 23 is very early for ploughing; but teams were ploughing on the marsh at Grand Pre, Jan. 2 and Jan. 5 of the present year. However, this is a common occurrence
in Yarmouth county.
    No. 69.
No. 70.
                90, 107.
               166.
    No. 74a.
                68.
                      This date was wrong for Yarmouth county.
               41, 66, 70. These dates are very early, but a few robins remain all winter in
    No. 84.
Yarmouth county.
    No. 88.
               94, 98, 108.
               100, 104, 110, 126.
    No. 90.
    No. 91.
               88, 90, 104, 110, 117.
    No. 92.
               93.
    No. 93.
               90
    No. 98.
               85, 91, 97.
    The following dates are too late :--
               125, 130, 132,
    No. 1.
               144.
               153.
```

```
No. 4. 144.

No. 16. 153.

No. 27. 172 (when becoming common is too late).

No. 33. 201 (207, when becoming common).

No. 89. 170.

No. 98. 167.
```

The dates given for the birds are improving each year. One schedule from Digby town, by John Russel, was extremely accurate.

There must be something radically wrong when teachers holding Science "A" licenses are not able to recognize our most common birds and flowers.

It does not speak well for the interest taken in the observations when only 36 schedules are sent in from nearly 250 teachers. In conversing with some of these teachers they say they have no interest in Nature Study. They cannot see that the pupils derive any benefit from it.

The Nature Study in the greater number of the schools of Region No. 1 is a mere memorization of facts.

I am sorry to note that Miss M. L. Weston, one of our most enthusiastic and reliable observers, has retired from the profession to take up the study of Art.

REGION II.—QUEENS COUNTY.

Miss Minnie C. Hewitt, Science Teacher, Academy, Lunenburg.

The observers of Queens county sent in the usual number of schedules. Most of them deserve great credit for the trouble they took to secure accurate dates. More than half the teachers of the county, however, do not realize that by the expenditure of very little time and trouble, they could interest their pupils in this work, and thus train them to go through the world with their eyes open, and to acquire habits of observation which would help to make their lives happier and more useful.

Many show the deep interest they take in this work by making a number of additional observations. May I suggest that, in reporting these, they use the scientific names of the plants, or the common ones recognized by botanists. Such names as "wild corn," "tame gooseberries," "garden lilies," "water-berries," "sleeping Johnnies," etc., while intelli-

gible in their own district, are rather out of place in scientific records.

Hepatica triloba and Claytonia Caroliniana were reported by one observer, but as the same schedule, though in many respects a good one, reported strawberries as flowering on the 128th day and having ripe fruit on the 125th, and had dates evidently meant for "flowering," placed opposite "fruit ripe." I did not have enough confidence in the accuracy of these observations to use them in tabulating. It would be interesting to know if these two plants, and Sanguinaria Canadensis are found in Queens county.

Several of the dates given for the birds are so unusually early that I think it probable that more than the usual number wintered in Nova Scotia last year. No correct dates were given for the Bobolink, King Bird, Redstart, and Cedar Waxwing, and only two for

the Junco.

The fact that very few report any birds except swallows in the additional observations, or if they do, make such mistakes as "nightingingale, 134," shows that the common birds of our province are not well known. Those who do not wish to purchase expensive books on birds can obtain most of the information needed from "Bird Guide," Part II, (Price, 50 cents), published by Chas. K. Reed. Worcester, Mass., which gives descriptions and colored illustrations of all the land birds east of the Rockies.

Many irregularities occur in the dates given for the first and last frost and snow, the closing and opening of lakes and rivers, water in streams, highest or lowest, etc.. Would it not be advisable for teachers who cannot conveniently report these from their own observation to ask some reliable pupil or parent who is in a better position to give accurate dates

to furnish them with the required information?

REGION II.-LUNENBURG COUNTY.

Burgess McKittrick, B. A., Principal Academy, Lunenburg.

Forty-six observation schedules were received from the three belts of Lunenburg county: Coast (a), 16; Low Inlands (b), 2; High Inlands (c), 28. The majority of these were carefully and neatly made. All the teachers used the year day except one. This simplified the duties of the compiler.

The following points should be noted:—
"Alnus incana, 140-150." This is too late. It evidently means A. Viridis. species of alder are abundant in this county. In the former the flowers precede the leaves

about April 110; while in the latter the flowers appear with the leaves about May 140.

Hepatica triloba is not reported. It is found at Bridgewater and probably in other places. Look for it about the time of the first Mayflowers.

The Ox-eye Daisy (C. Leucanthemum) is often not reported in the body of the schedule, while Field Daisy is given among additional observations. The "Ox-eye Daisy" is another name for "Field Daisy"

Additional observations. The "Ox-eye Daisy" is another name for "Field Daisy"

Adder's Tongue Lily or Dog's Tooth Violet (E. Americanum) was reported 152-180. This is too late. Look for it about May 125, though I am doubtful if it is found anywhere in this county. If any observer finds it, I shall be grateful if he (or she) will send me a specimen.

The following are very wide of the mark:

Grain-cutting, 128-138; potato-digging, 138-145. These dates may possibly do for sowing" and "planting." Last snow to whiten ground, 151; first autumn frost, 128; frogs first seen, 160, and snakes, 173.

These mistakes need not occur, if care is taken to place the year day exactly opposite

the name of the plant and afterwards to check the figures.

The observation sheets, upon the whole, were quite as satisfactory as in former years.

REGION II .- SHELBURNE COUNTY.

C. Stanley Bruce, Principal, Shelburne Academy.

There were twenty schedules sent in-sixteen from Coast Sections, three from Low Inlands, and one from High Inlands.

Without exception, these schedules show many marks of careful observation. Some dates, however, had to be rejected from even the best of them, on account of errors in translating day of the month into day of the year, by which the dates of some very common phenomena were written either a month later or a month earlier than they should have been.

5, 8, 13, 31. Sanguinaria, Hepatica, Erythronium and Calla are still unreported.

15. Claytonia was reported by one teacher. The date was correct so I allowed it to stand, but I have my doubts about the identification.

23. 24. I felt obliged to reject all the dates for R. repens.

Some teachers wrote 'bulbosus' after the date, but I feel quite sure that all the others meant 'bulbosus' which is our commonest roadside buttercup.

35, 36. The Kalmias are still confused by a few teachers.

One teacher reports the last "hoar frost" on April 20th, and the last 'hard frost" The same teacher tells us that Wild Ducks and Wild Geese remain with us on May 80th. It was a different teacher, however, who made the discovery that Frogs lay all the time. "spores,"

The bird observations show no improvement on those of last year.

REGION III .- Kings and Annapolis.

Ernest Robinson, B. A., County Academy, Amherst.

On the whole the reports from Kings and Annapolis were better than those of previous years

The best reports came from the South Mountain belt.

The North Mountain belt gave but three reports. It would be interesting to have a larger number from this belt for purpose of comparison.

There is a noticeable improvement in "bird" reports, although some of the dates given

As a number of the observations can only be made during vacation, it is common to find these omitted. Among the reports was one that contained these, and only these. One could wish that so careful an observer had made use of the entire sheet. SUGGESTIONS :-

In many cases the dates for "first seen" and "becoming common" are given alike. suppose this means that when first seen they were common. In such a case, the latter column only should be filled in. Errors :-

The usual number of errors were found, and in many cases the very ones to which the

different compilers have called attention over and over again.

Plowing 249, planting 127, is given by one observer. This could not be "fall" plowing.

One observer gives 'Fall Dandelion' very late in the fall. Were they misled by the name?

REGION IV .- HANTS AND S. COLCHESTER.

W. J. Shields, Principal High School, Hantsport.

There were 43 schedules sent in from this region.

They are on the whole very creditable. Some have as many as 60 extra observations

representing much care and labor and are deserving of praise.

Belt "b" send in schedules that were as a rule far ahead of those from "a" and "c" though two from the latter belts were excellent and all were I think an improvement on last year's records. I shall give more detailed criticisms in the local papers for the purpose of aiding those teachers of this region who are just beginning to take interest in this work.

REGION V .- HALIFAX COUNTY.

G. R. Marshall, B. A., Prin. Compton Avenue School, Halifax.

Taken as a whole the reports handed me this year were better than those I have received in former years. There were a few of the old mistakes so often reported, however, and one or two new ones. Two observers neglected to sign their reports and thus left them of doubtful value; and one observer by not venturing to record the date when the phenomena were becoming common, gave us but little information.

REGION V.-GUYSBORO COUNTY.

J. B. McCarthy, B. A., B. Sc., Science Master, Academy, Halifax.

Twenty-one reports were received, of which three were discarded. No one reports Hepatica or Marsh Calla, and from similar omissions in previous years, I conclude that

these plants are not found in Guysboro County.

One observer reports—piping of frogs—"going south or leaving in the spring"—May 10th and on the same sheet—appearance of snakes—"going south or leaving in the spring April 4th. These manifest absurdities must be accomplished by some young teacher filling in the blanks for the first time and in their zeal to have well filled columns lose sight of the essentials.

Fifteen send in supplementary lists-forty additional observations from Stillwater and

eleven from Roachvale, the latter report refreshing in its neatness.

If the younger teachers could have put in their hands the remarks of the compilers, it would warn them of some of the more usual errors

REGION VI.-A AND B.

J. E. Barteaux, Science Master, Academy, Truro.

Twenty-five schedules were received from these Regions, the quality of which is about the same as in former years. All but one recorded the observations by the annual date.

While in most of the schedules there is a paucity of observations to be deplored, one ran to the opposite extreme. This special schedule had every blank filled even to the going south of the snakes and the piping of the frogs, and besides thirty additional observa-

tions were recorded on the margins of the schedule.

The remarks made in former years about 26, 29, 35 and 36 apply with equal force to the present. Thirteen reported 33. All are in error, as the latest date given, places its

flowering before the middle of June.

REGION VII.—CUMBERLAND AND COLCHESTER.

The following list shows the number of schedules received from each section of the district allotted to me :-

Region	7, Cumberlan	d County,	Belt	(a)	10
	7.	**		(b)	2 l
"	7.	"	"	(c)	7
"	7, Colchester	County,	"	(a)	Ð
66	7.	"	"	(b)	5
- "	7,	"	66	(c)	Ð
Region	6 B,	"	"	(a)	4
711	6 B,	"	66	(b)	7

It is desirable that Colchester County and the Chignecto Peninsula should send in a larger number of reports. Joggins Mines, Two Rivers. Apple River schedules are needed to make any report from 6 B (a) complete. I have to notice an improvement in one respect, only six of the 64 reports received had the day of the month instead of the year day. Three of those six were copied, but under protest. More teachers are supplementing the observations asked for and although come are familial yet all are interesting. One leafly for servations asked for; and, although some are fanciful, yet all are interesting. One lady, for instance, reports the Summer Warbler in large flocks in March in "their winter plumage."

They They appeared dressed in their usual garb, despite this unusual experience, at the proper time. Miss Charman's supplementary observations are, as usual, numerous and reliable.

The bird notes, I should judge, are improving, although some curious facts (?) are stated. One observer saw the Wild Geese return southward three days after their usual northern migration. Another saw the Bobolink in March; another the Night Hawk as

Great confusion, too, about the Raspberries and the Kalmias. I wish our Inspectors would give a five-minute talk to each teacher on those common plants at their next visit. Our boys and girls doubtless hear the Rhodora called "Lamb-kill," and the name sticks. The dates for White and Blue Violet, too, nearly coincide. Some observers gave the date possibly, of a Dandelion out of season in October for the Fall Dandelion!

But the great and well-nigh universal fault is the date given for "when becoming common." Schedule after schedule had three or four or five added right through to "when

first seen." Others gave both dates the same.

I still think that the earliest reliable date for the migration of birds should be taken instead of the averaging of any observer.

REGION VII.-PICTOU AND ANTIGONISH COUNTIES.

C. L. Moore, M. A., Science Master, The Pictou Academy.

Fifty-four schedules were received this year from Region VII, viz., 11 from belt (a), 16 from belt (b), 16 from belt (c), and 11 from Antigonish county. Of these, 46 were averaged, distributed as follows: 10 from belt (a), 10 from belt (b), 16 from belt (c), and

10 from Antigonish county.

The schedules on the whole were very complete, the blanks being largely in connection with phenomena to be observed during the period of summer vacation. The number received from Pictou county was not so large as last year, but they show a marked improvement both in neatness and in accuracy. Forty-three of the observers reported additional observations, many of these being with regard to the migrations of birds, evidencing an increasing interest in this branch of nature-study. The schedules received from Miss Isabella McCabe, Loch Broom, and Miss Ada S. Macdonald, Rogers Hill Centre. are deserving of special mention in this connection, as well as for their general excellence. The former reports migration dates for upwards of twenty species of birds in addition to these listed in the schedules and all of the dates shew careful and accurate observation.

A general comparison of the schedules with the dates of phenomena as observed in the vicinity of Pictou town, shews that the averages for the county are in most cases considerably later than the dates observed here, and, as the situation is not more favorable than that of many other sections, this would seem to indicate that there is still room for improvement on the part of the observers. An exception to this occurs in the case of No. 27, the florets not opening here until considerably later than the date reported by the great majority of the observers throughout the county. This may be due to the fact that the opening of the floral bracts, which occurs some days before the opening of the florets was reported—an error which should be guarded against.

The schedules from Antigonish county were not so full; and some not so accurate. Many dates had to be rejected as obviously erroneous.

REGIONS VIII, IX AND X .- CAPE BRETON ISLAND.

L. A. De Wolfe, M. Sc., The Academy, Truro.

Again the work of compiling is done, and I send you herewith the tabulated results. Forty-six schedules were sent in -thirty for Cape Breton, nine for Richmond, six for Inverness and one for Victoria. Cape Breton County sent twice as many as it did last year. Inverness also gained; while Richmond and Victoria fell behind.

am pleased to report a decided improvement in the number and accuracy of observa-Among the best papers were those from Boisdale, Ashfield, Captain Allan's, Beaver Cove, Big Lorraine, East Bay and Portage. Several others, however, were nearly as good.

Three gave the day of the month, instead of the year date.

Gradually the habit of observing is taking hold of the teachers. Never before have the birds been so accurately reported. Miss Elderkin of Big Lorraine, Miss McDonald, Boisdale, and Mr. McInnis of Ashdale gave full and accurate lists of bird migrations. A few years ago the Robin was the only bird generally known; but this is not so now.

There is still, however, room for improvement. Bobolinks are reported from districts where no rivers or marsh lands exist. I doubt if persons from such districts know the

The meadow lark is also reported. Since I have never seen this bird outside of

cabinet collections, I am unable to confirm such report.

When a teacher observes the arrival of the Junco, December 20th, doubtless the name "Slate Colored Snow Bird" misled her. She evidently, saw the Snow Bunting (Plectrophenax nivalis) instead of the Junco. The migration of the Junco could not be very correctly observed this year, for large numbers remained all winter. In fact one Cape Breton teacher reports them as resident,—which was true. Two teachers report the Purple Fineh arriving towards the last of May. They, too, remained last winter. The person who first saw the Summer Yellow-Bird, June 20th will need to look out for him about six weeks earlier next I do not believe, however, that the other teacher, a few miles away saw him April year. 2nd. The Song Sparrow seen March 6th, had probably not been south. Like the Robin, sionally remains here over winter. Both March 22nd, and April 22nd are too early Like the Robin, he occasionally remains here over winter. for the Redstart. May 18th is somewhat early for the Humming Bird; though I do not see how anyone should mistake another bird for it.

One village was fortunately immune from the English Sparrows, for they arrived there April 17th and left three days later. In other parts of the province, as is well known, they

are superabundant throughout the year.

In one paper the Junco was reported in the proper place, and again as an extra observation under a different date.

The White Throated Sparrow does not arrive March 28th.

The snake seen February 13th was somewhat out of his element.

With the plants, too, several irregularities occur. That reported dates are incorrect is evident in papers giving the flowering of the strawberry 36 days later than the red maple; red currant 20 days later than plum; white violet 15 days later than blue violet, etc.

Among tardy observations were Fall Dandelion 254, Ground Ivy 178, Horsetail 155,

Adder's Tongue Lily 176, Alder 145, Aspen 154. Among those too early were Timothy 178, Butter-and Eggs 166, Dandelion 119, Heal All 163, Red Maple 115, Blackberry 159, Raspberry 146, Creeping Buttercup 134. The citizens of one favored community enjoyed the shade of green trees as early as April 9th.

Scarcely normal conditions prevailed when potato-planting preceded sowing by 50 days. I should also judge Nov. 20th rather late to begin potato-digging.

Two stations report Hepatica. Not being acquainted with the flower, I am unable to say whether the dates were correct or not. It is unnecessary to report what hour of the day plants begin to flower-as must have

been done by one teacher who gave the dates to one decimal. A few observers confuse the English Hawthorn with the Scarlet Fruited Thorn. Two

interchanged Gold Thread and Star Flower. To my own knowledge, Canada Cinquefoil

has been reported as Creeping Buttercup.

To aid those who attempted the Kalmias, I may say that the correct reports for Sheep Laurel were from Ashfield, Captain Allan's, Lewis Cove Road, Beaver Cove, and Big Lorraine. In addition to these, Pale Laurel was correctly reported from Rocky Ridge, West Bay Road, Framboise Intervale, Grand River and Milton. A still larger number were correct for Rhodora.

Last season was a peculiar one in many respects. For example, the mild weather of January and February started the Alder (atkins; after which a cold period killed them. The result was that in April very few Alders were found in flower, and consequently irregularity larities are reported. The spring weather, too, was fatal to the off-commented upon three days between "first seen" and "becoming common." From May 25th to May 31st were very cold and wet. As a result flowers just appearing, say, May 24th, were set back about ten days, before they could recover sufficiently to "become common." Other periods at different ten days, before they could recover sufficiently to become common. different dates had the same effect. Here in Truro, Rhodora, for example, was fully two Weeks behind its normal date owing to cold, wet weather just at the time it was ready to flower.

WEEDS AND INFECTIOUS PLANT DISEASES.

(NOTES BY THE SUPERINTENDENT.)

In every rural school the teacher should make a point of seeing that the pupils can recognize the injurious weeds, and the more common infectious diseases of trees and plants, such as the Black Knot of the plum or cherry trees, club-root of cabbages and turnips, etc. The Nature Study lessons on such subjects will have a very special additional interest beyond those involving no economic questions. The Provincial Statutes directing the destruction of infected trees and weeds along fences can be got from the local magistrate, and should be made the subject of oral lessons to pupils, who would thus be making an acquaintance with some of the laws of the province, together with the reasons for their enforcement.

THE SENECIO CATTLE DISEASE.

This disease might be called the Ragwort Cattle Disease. It has hitherto been known as the "Pictou Cattle Disease," on account of its place of origin. It is now no longer the *Pictou* cattle disease, for it is spreading into the neighboring counties. Up to 1881 nearly 1400 cattle are estimated to have perished from this infection. And since then, it is estimated that about 200 a year, on an average, die from the same cause.

WHAT IS THE CAUSE?

For many years at very great expense, the Department of Agriculture at Ottawa has been endeavoring to exterminate the disease, and to discover its cause. The experiments at Cloverville, Antigonish, during the last few years, under the charge of Dr. W. H. Pethick, appear at last to definitely prove, that if the disease is not caused by the eating of the St. James ragwort, it is at least caused by something so intimately associated with the weed, that it may provisionally be considered to be the specific cause. The experiments are clearly described in a special report on "Pictou Cattle Disease", published by the Department of Agriculture at Ottawa in 1906, to which those seeking exact information are referred.

SENECIO JACOBÆA L.

is the botanical name of the plant, known in Scotland, from which it came to Pictou about sixty years ago, as the Common Ragwort; in Quebec as Herbe de St. Jacques; and generally in America and Europe, under such various names as Tansy Ragwort, Staggerwort, St. Jameswort or weed (which like the French name is a translation of the botanical name), Staverwort, Cankerweed, Kettle-dock, Felon-weed, Fairies Horse, Stinkin Willie. It has already spread through Antigonish county, and is rapidly invading Colchester and Halifax counties and even Prince

Edward Island. It was not reported to be specially poisonous in Scotland perhaps because it was not allowed to grow so abundantly. There are a few other species of Senecio in Nova Scotia, which are not known to be specially dangerous, such as: S. vulgaris L., S. viscosus L., S. sylvaticus L., S. Aureus L., S. Balsameta (Hook) Britton, S. obovatus Muhl, and S. Pseudo-Arnica. Another species of Senecio is suspected of being the cause of the Winton Disease in New Zealand, which attacks horses as well as cattle and sheep. And a similar disease in South Africa has been traced to the agency of Senecio Burcheli I therefore propose to call this disease by the generic name of the plant with which it appears to be associated in Nova Scotia, New Zealand and Cape Colony in South Africa.

SPRCIAL WORK FOR SUMMER OF 1907.

In order to determine the exact extent to which the weed has spread, I am asking all schools and individuals sending in Phenological Observations, to note the presence or absence of Senecio Jacobæa in the blank for remarks at the end of the schedule. The abundance or variety of the weed should also be indicated, with an intimation of the action being taken in the community to have it exterminated.

DESCRIPTION OF THE WEED (FROM "SP. TION.")

Senecio Jacobwa L. Belonging to the Composite Family (Order Composite). Flowers golden yellow, the heads forming a spreading corymb. Stem erect, 2-3 feet high, branching, glabrous or somewhat cottony. Leaves numerous, lyrate, bipinnatifid, the lower with broad segments, the upper with linear divisions, all glabrous.

(NOTE ON THE FLOWERS FROM "BRITTON AND BROWN.")

The yellow-rayed heads are very numerous and from one-half to two-thirds of an inchbroad. The involucre is narrowly bell shaped, nearly one-quarter of an inch high, its bracts linear-lanceolate, acute, green, or tipped with black; the rays from 12 to 15, the achenes of the disk flowers pubescent, those of the rays glabrous, and the pappus white.

From the schedules sent in next July, it is hoped we can plot exactly the portion of the province affected, and have an accurate idea of the magnitude of the problem. The longer the weed is allowed to spread without an attempt at extermination the more extensive and difficult the problem becomes. If it is not at least kept reduced, it is likely to make cattle raising in all the provinces into which it spreads an impossible industry.

(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.

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. 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 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 specified 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 flora, fauna, climate, etc., more or less distinctly its own; and the more common trees, shrubs, plants, crops, etc., are those which will be most valuable from a local point of view

in comparing the characters 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 school room. The "nature study" under these conditions would thus be mainly undertaken at the most convenient time without encroaching on school time; while on the other hand it will tend to break up the monotony of school travel; fill an idle and wearisome hour with interest, and be one of the most valuable forms of educathe antide and wearisome nour with interest, and de one of the most valuable forms of educational discipline. The eyes of a whole school daily passing over a whole school section will let very little escape notice, especially if the first observer of each annually recurring phenomenon receives credit as the first observer of it for the year. The observations will be account to the facts must be demonstrated by the most undoubted crider when he at the accurate, 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 principles of recording are emphasized: Better no date, No RECORD, than a WRONG ONE OF a DOUBTFUL one. Sports out of season due to very local conditions not common to at least a small field, should not be recorded except parenthetically. The date to be recorded for the purposes of compilation with those of other localities should be the first of the many of its kind following immediately after it. ately after, it. For instance, a butterfly emerging from its chrysalis in a sheltered cranny by a southern window in January would not be an indication of the general climate, but of the peculiarly heated nook in which the chrysalis was sheltered; nor would a flower in a semi-artificial, warm shelter, give the date required. When these sports out of season occur, they might also be recorded, but within a parenthesis to indicate the peculiarity of some of

the conditions affecting their early appearance.

These schedules should be sent in to the Inspector with the annual school returns in July, containing the observations made during the whole school year and back as far as the preceding July (if possible) when the schedule of the previous school year was necessarily completed and sent in.

A duplicate copy of the schedule of observations should be securely attached to the school register for the year, so that the series of annual observations may be preserved in

each locality. The new register has a page for such records.

Remember to fill in carefully and distinctly the date, locality, and other blanks at the head of the schedule on the next page; for if either the date or the locality or the name of the responsible compiler should be omitted the whole paper is worthless and cannot be bound up for preserve ion in the volume of The Phonological City 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 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 day of the month given to the annual date of the last day of the preceding month (April in this case), thus: 24+120=144. The annual date can be briefly recorded, and it is the only kind of dating which can be conveniently averaged for phenological studies. When the compiler is quite certain that he or she can make the conversion without error, the day of the year instead of the last of the last day instead of the last day instead of the last day and the preferred. phenological stated when the complier is quite certain that he or she can make the version without error, the day of the year instead of the day of the month will be preferred in recording the dates.

PHENOLOGICAL OBSERVATIONS, CANADA

(1906 SCHEDULE.)

For the wear or	nding July, 190		
ProvinceCounty	District		• • • • • • • • • • • • • • • • • • •
Locality or School Section		1	٧o
[The estimated length and breadth of th	e locality within which t	he ioliowii	ng onserva
tions were made	Estimated distance from t	ne sea coas	30
miles. Estimated altitude above the sea lev	elteet.		
Slope or general exposure of the region			
General character of the soil and surface			• • • • • • • • •
Proportion of forest and its character			
Does the region include lowlands or interval	les?and if sc	name tne	main river
or stream Or is it a	ll substantially highlands	?	
Any other neculiarity tending to affect vege	tation ?		• • • • • • • • •
**************************************			• • • • • • • • •
The most central Post Office of the locality of	or region		
	' [£	
NAME AND ADDRESS OF THE TEACHER OR	OTHER COMPILER OF THE	į.	ing on,
OBSERVATIONS RESPONSIBLE FOR TH	IEIR ACCURACI.	# # d	4 0 E
· · · · · · · · · · · · · · · · · · ·	}	When First Seen.*	When Becoming Common.*
		5 02	*
(WILD PLANTS, ETC.—NOMENCLATURE 8	is in "Spotton" or		
"Gray's Manual").	-		
•	11	114.1	120.9
. 1. Alder (Alnus incana), catkins shedding	pollen	118.7	123.8
	" ,	110.8	120.3
3. Mayflower (Epigea repens), flowering		127.9	133.4
4. Field Horsetail (Equisetum arvense), s	hedding spores	130.3	134.
5. Blood-root (Sanguinaria Canadensis), fi	owering		131.7
6. White Violet (Viola blanda), flowering		125.4	
7. Blue Violet (Viola palmata, cucullata),	flowering	128.6	135.
8. Hepatica (H. triloba, etc.), flowering		125.3	132.1
9. Red Maple (Acer rubrum), flower shed	ding pollen	130.3	135.7
10. Strawberry (Fragaria Virginiana), flow	ering	128.3	137 1
	ripe	168.8	177.2
12. Dandelion (Taraxacum officinale), flower	ering.	131.2	138. 144.5
13. Adder's Tongue Lily (Erythronium Am	a.), flowering	138.	144.5
Gold Thread (Coptis trifolia), flowering	g	184.2	133.9
15. Spring Beauty (Claytonia Caroliniana)	, flowering	127.4	145.8
16. Ground Ivy (Nepeta Glechoma), flower	ring	139.5	ł
17. Indian Pear (Amelanchier Canadensis).	flowering	142.1	147.6
18, 11 11 11	fruit ripe	201.6	210.5
19. Wild Red Cherry (Prunus Pennsylvani	ica), flowering	146.5	152.8
20,	fruit ripe	220.3	230.7
21. Blueberry (Vaccinium Can. and Penn.)	flowering	146.3	153.1
272, 11 11 11	fruit ripe	206.4	213.7
23. Tall Butteroup (Ranunculus acris), flo	wering	153.3	160.4
24. Creening Ruttergup (R. repens) flower	ing	158.4	164.5
25. Painted Trillium (T. erythrocarpum).	flowering	145.6	151.7
26. Rhodora (Rhododendron Rhodora), flo	wering	149.8	155.9
24. Pigeon Berry (Cornus Canadensis) flo	orets opening	151.1	157.6
5 \ \ \ \ \ \ \ \ \	m*		

PHENOLOGICAL OBSERVATIONS—(Continued).

[F c	[Day of year corresponding to the last day of each month.] Jan. 31. April 120. July 212. Oct. 304. Feb. 59. May 151. Aug. 243. Nov. 334. March 90. June 181. Sept. 273. Dec. 365. or Leap years increase each number except that for January by 1.)	When First Seen*	When becoming Common.*
28. 29. 30. 31. 32. 33. 34. 35. 36.	Marsh Calla (Calla palustris), flowering Lady's Slipper (Cypripedium acaule), flowering Blue-eyed Grass (Sisyrinchium ang.), flowering Twinflower (Linnaea borealis), '' Pale Laurel (Kalmia glauca), flowering Lambkill (Kalmia angustifolia), ''	208.7 151.2 154.6 160.2 162.6 162.5 168.9 156.7 170.6	236.5 157.9 160.4 167. 166.7 168.7 173.8 163.7 175.4
38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51.	English Hawthorn (Cratægus oxyacantha), flowering Scarlet-fruited Thorn (Cratægus coccinea), Blue Flag (Iris versicolor), flowering Ox-eye Daisy (Chrysanthemum Leucanthemum), flowering Yellow Pond Lily (Nuphar advena), flowering. Raspberry (Rubus strigosus), flowering. " " fruit ripe Yellow Rattle (Rhinanthus Crista-galli), flowering High Blackberry (Rubus villosus), flowering " fruit ripe Pitcher Plant (Sarracenia purpurea), flowering Heal-All (Brunella vulgaris), Common Wild Rose (Rosa lucida), Fall Dandelion (Leontodon autumnale), Butter-and-Eggs (Linaria vulgaris), Expanding leaves in capies and these	164.5 163.9 169.8 167.5 168.3 165.1 207.3 175.3 170.7 234.5 171. 177.9 168.9 170.	170.0 169.4 174.7 173.5 175. 169.4 218.6 180.9 176.8 243.9 177.2 182.5 185.8 175.3 180.9
	Expanding leaves in spring made trees appear green— (a) first tree, (b) leafing trees generally. (Cultivated Plants, etc.)	138.7	148.2
53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64.	Red Currant (Ribes rubrum), flowering. "fruit ripe. Black Currant (Ribes nigrum), flowering "fruit ripe. Cherry (Prunus Cerasus), flowering. "fruit ripe. Plum (Prunus domestica) flowering Apple (Pyrus Malus), flowering Lilac (Syringa vulgaris), flowering White Clover (Trifolium repens), flowering Red Clover (Trifolium pratense), Timothy (Phleum pratonse), Potato (Solanum tuberosum), "	145.5 191.8 148.6 213.5 148.8 205.7 153.1 154.8 164.6 165. 163.9 178.1 176.9	151.4 202.5 153.6 219. 154.8 211.2 157.1 161.5 170. 171.9 171.2 181.1 200.5
o7.	(FARMING OPERATIONS, ETC.) Plowing begun	121.4 131.1 129.3	129.6 139.1 138.8

PHENOLOGICAL OBSERVATIONS -(Continued).

-	PHENOLOGICAL OBSERVATIONS - COMM		
69. 70.	Shearing of Sheep	130 197.9	140.6 208.3
71.	Grain Cutting	243.6	250.3
72.	Potato Digging	270.2	279.2
	(Meteorological Phenomena.)	(a)	(p)
73.	Opening of (a) Rivers, (b) Lakes without currents	94.8	105
74.	Last Snow (a) to whiten ground, (b) to fly in air	106.5	123.6
75.	Last Spring Frost (a) "hard" (b) "hoar"	137.6	161
76.	Water in Streams, Rivers, &c., (a) highest, (b) lowest	106.3	232.9
77.	First Autumn Frosts, (a) "hoar" (b) "hard"	262.1	289.8
78.	First Snow (a) to fly in air, (b) to whiten ground	306.9	317.3
79.	Closing of (a) Lakes without currents, (b) Rivers	333.6	345
80.	Number of Thunder Storms (with dates of each)		
	Jan, Feb, Mar, Apr		
٠.,	June		
July	7, Aug		
Sep	t, Nov, Nov	, Dec	
_		g North coming Spring.*	
	[Day of year corresponding to the last day of each month.] Jan. 31. April 120. July 212. Oct. 304.	ort ing	Going South or leaving in Fall.*
	Odn. 011 1 240 N 994	Nod	ૐ ક ુ
	Manual 99 Tupe 181 Sept. 273. Dec. 365.	n ng	20 T T
(For	LEAP years increase each number except that for January by 1.)	Going or c in St	.60.3
_	Drawe prod		
	(Migration of Birds, etc.)		011.0
81,		97.6	311.3
82.	Wild Geese migrating	91.4	313.2
83,	Song Sparrow (Melospiza fasciata)	93.6	
84.	American Robin (Turdus migratorius)	91.4	
85.	Slate coloured Snow Bird (Junco hiemalis)	93,9	
86.	Spotted Sand Piper (Actitis macularia)	129.7	
87.	Meadow Lark (Sturnella magna)	122.9	
88.	Kingfisher (Ceryle Alcyon)	124.9	
89.	Yellow Crowned Warbler (Dendreea coronata)	128.9	
` 9 0,		134.6	
91.		121.9	
92.	Humming Bird (Trochilus Colubris)	147.2	
93,	King Bird (Tyrannus Carolinensis)	139.2	
94,	Bobolink (Dolychonyx oryzivorus)	135.9	
95,	American Gold Finch (Spinus tristis)	138.8	
96.	American Redstart (Setophaga ruticilla)	135.5	
97,	Cedar Waxwing (Ampelis cedrorum)	141.4	
98	Night Hawk (Chordeiles Virginianus)	131,7	
99,	Tight Hawk (Onordenes virginianus)	110.5	
	* ADMIN OF PTOUS		
100.	Appearance of Snakes	115.3	

(OTHER OBSERVATIONS AND REMARKS.

^{*}These figures are the Provincial Phenochrons for 1906—the arithmetical means of the Phenochrons of each of the ten Regions of the Province of Nova Scotia. It will form an interesting standard of comparison for local observers. Yarmouth observations, for instance, will generally be much earlier, while Inverness observations will be later.



PROVINCIAL NORMAL SCHOOL BUILDINGS, TRURO, N. S.

PROVINCIAL NORMAL SCHOOL, TRURO, N. S.

David Soloan, B. A., LL. D., Principal, Principles of Pedagogy, Language, History: John B. Calkin, A. M., Emeritus Professor of Psychology and Pedagogy.

James B. Hall, Ph. D., Psychology, Civics, Method in Geography.

Ottie A. Smith. Drawing, Calisthenics.

J. Alphonse Brown, P. Calisthenics.

J. Alphonse Benoit, B. A., Method in Mathematics and Physics, French.
EDWARD W. Connolly, B. A., Hygiene, Physiology, Math. Drawing, Commercial

LESLIE C. HARLOW, B. Sc., B. S. A., Method in Nature Study, Biology, Chemistry. ESTELLE A. COOK, B. A., Elocution, Literature, Music.

AFFILIATED INSTITUTIONS.

THE COLLEGE OF AGRICULTURE: M. Cumming, B. A., B. S. A., Principal.
THE TRURO SCHOOL OF MECHANIC SCIENCE: F. G. Matthews, Principal. THE TRURO SCHOOL OF DOMESTIC SCIENCE: Elizabeth P. McCall, Principal. THE TRURO KINDERGARTEN: Mrs. S. B. Patterson, Principal,

The Provincial Normal School provides, without charge for tuition, courses of training for teachers who signify their intention to practice their calling in the province of Nova

Applicants for admission to the courses must present the High School pass certificate corresponding in grade to the diploma or license sought. License of class A, B, C, or D, isgranted to holder of H. S. certificate of grade XII, XI, X, or IX who obtains the Normal School diploma of corresponding rank.

Travelling expenses are paid at the rate of five cents per mile, each wsy, to students.

who intend to teach in Nova Scotia.

Board and lodging in Truro cost from \$2.50 to \$3.00 a week

For information concerning the courses in Kindergarten and Domestic Science, apply to the Principals of those departments, and concerning the regular Normal School courses and Mechanic Science courses, apply to the Principal of the Provincial Normal School.

SUMMER COURSES.

During five weeks, commencing with Wednesday, July the tenth, 1907, courses will be conducted in the natural sciences and in language methods, as follows:-

I.—IN THE NATURAL SCIENCES.

Members of the faculties of the Provincial Normal School and the College of Agriculture will conduct classes in practical chemistry, biology, agriculture and associated studies, nature, and school-gardening. The summer term forms part of a fourteen months' course leading to the Rural Science Diploma (displacing the former Agricultural Diploma), attendance being resumed on the first Wednesday of March and continued until the close In lieu of attendance during the period from of the following summer term, in August. March to July, the candidate for Rural Science Diploma may substitute attendance during two subsequent summer terms of five weeks each, four summer terms thus counting as equivalent to a full fourteen months' course. Tuition isfree.

Regulations governing the issue of the Rural Science Diploma and an outline of the summer terms thus counting as

Course of study prescribed are to be found on a following page of the JOURNAL OF EDUCA-

Teachers attending the summer course may obtain an extra week of vacation without Prejudice to the Provincial grant or to the county fund of the school. - See School Law, Regulation 138.

II.-IN LANGUAGE METHODS FOR TEACHERS IN ACADIAN SCHOOLS.

Teachers appointed to Acadian schools must be fairly fluent in speaking English as well as French, and they are required to cultivate spoken English in the pupils of all grades of their school. A course of instruction in effective methods of teaching English to French children has hitherto been offered annually at the Provincial Normal School during the summer vacation. This year the course will be resumed during the five weeks period, commencing July the tenth. Model classes of French children will be brought to Truro, and a good attendance of Acadian teachers is expected.

Students of the language course are admitted free to any of the concurrent classes in science, and are strongly recommended to use their spare time in the pursuit of one or

more of these.

Teachers looking forward to attending the language course should obtain the consent of their trustees to re-opening school a week late, as permitted by Regulation 138 of the School Law.

It is desirable that applicants for admission to either the science or the language course should apply as early as possible to the Principal of the Provincial Normal School, Truro, N. S.

FEDERAL CONFERENCE OF THE EMPIRE ON EDUCATION, London, England, May 24th to June 1st. 1907.

SUGGESTED PROGRAM.

I.—Business Subjects.

- Scheme proposed by the League of the Empire for Federation of the Empire in Education.
- Official recognition of a common Central Office Federal Education
 - Future Federal Education Conferences. Suggested places of meeting of Heads of Departments and other Educationalists.
 - (2)Dates.

II.- EDUCATIONAL SUBJECTS

- Teachers.
 - Comparison of (a) the provisions for the supply and the training of Ele-(1)mentary Teachers, and of (b) the conditions of their work in the United Kingdom and other Countries of the Empire and Crown Colonies,

Similar comparisons in the case of Secondary Teachers.

- Practicability of temporary interchange of Teachers and of Inspectors between the United Kingdom and other Countries of the Empire and Crown Colonies.
- The Relations between Secondary and Primary Schools in the various Countries of the Empire.
- Means of establishing a System of Mutual Recognition of Equivalent Standards of Attainment in the several Countries of the Empire in connection with Primary, Secondary and University Education.

Co-operation in Educational Publications.

(1) Scheme of the League of the Empire for Imperial Text Books in History. Means for ensuring correctness in Text Books dealing with Geography, or (2)in which local knowledge is required.

Co-operation in School Work.

The formation of a Central Exhibition of Industrial or other School work. The organisation of the exchange of School work and specimens between Departments, Museums, and between individual Schools on a permanent basis.

School Subjects.

- The English language: (a) Reading (literature); (b) Composition; (c) Pronunciation.
- Geography in its relations to: (a) History; (b) Discovery and commerce; (c) The growth of the Empire, illustrated by lantern slides and other means.

Encouragement of nature study.

a Education of non-British Races.

Comparison of ideals, methods and standards in various parts of the Empire.

Other subjects which may be discussed if time allows. H.

Cadet corps and military training. (A)

(B)

Educational facilities in sparsely populated districts. Educational treatment of Poor Law and Reformatory children. (c)

(a) Civie and moral Education.

Metric System of Weights and Measures. (E)

School gardens. (F)

DOMINION EDUCATIONAL ASSOCIATION.

Toronto, July 10-13, 1907.

PROVISIONAL PROGRAMME.

In order to reach the Easter meetings of the Provincial Associations, this provisional programme has been issued. The complete programme will follow shortly, and will contain all necessary information as to rates, side-trips, accommodation, registration, etc.

W. A. McIntyre, Winnipeg, President.

D. J. Goggin, Toronto, Secretary.

GENERAL MEETINGS.

Addresses of Welcome-Hon, R. A Pyne, M. D., LL. D.; President Hutton, M. A., LL. D. Replies-W. A. McIntyre, B. A., Winnipeg; Supt. A. H. MacKay, M.A., LL. D., Halifax-The Nations Need-President W. A. McIntyre. The School and the Making of the Nation—Rev. J. A. MacDonald, Editor Toronto Globe.

Modern Movements in Education - Supt. John Seath, M.A., LL D., Toronto.

The Old and the New Training—Chief Inspector J. L. Hughes, Toronto.

Modern Trend of High School Education—Dean G. H. Locke, Ph. D., Macdonald College.
The Place of the University in National Development—Prof. H. M. Tory, M. A., D. Sc., McGill University.

Scholarship and Service as University Ideals-Prof. F. Tracy, B. A., Ph. D., University of Toronto.

The Making of the Nation-Rev. J. J. MacNeill, Toronto.

The Educational Value, from a national point of view, of the Canadian Archives-Prof.

Adam Shortt, M. A., Queen's University.

Address—President Hutton, University of Toronto.

Education for Rural Life in Canada—James W. Robertson, LL. D., C. G. M.

Conversazione - University of Toronto.

HIGHER EDUCATION SECTION.

(President-Mr. R. A. Thompson, Hamilton.)

The Ideal High School Teacher-Principal R. A. Thompson, B A., Normal College, Hamilton. The Independence of the High School-Principal F H. Schofield, B. A., Collegiate Institute, Winnipeg.

The Relation of the High School to the College—Dean G. H. Locke, Ph. D., Montreal. What is the True Worth of the High School-A. W. Morris, M. A., Collegiate Institute,

High School Training as a Preparation for Life--Principal D. Soloan, B. A., LL. D., Truro, Nova Scotia.

English in the First Year of the High School-Prof. F. H. Sykes, Ph. D., Columbia University, N. Y.

INSPECTION AND TRAINING SECTION.

(President-Mr. S. E. Lang, Winnipeg.)

President's Address—S. E. Lang, M. A., Normal School, Winnipeg. The Industries in Education—W. Pakenham, B. A., D, Paed., Dean of School of Education,

University of Toronto. Relation of Normal Schools to Inspection and Training-T. E. Perrett, B. A., Principal Normal School, Regina.

The Rural School Problem in Ontario -- D. D. Moshier, B. A., B. Paed., Inspector Schools,

Sarnia, Ontario. A Uniform System of Nomenclature for Classes in the Schools of the Different Provinces—

A. Melville Scott, B. A., Ph. D., Supt. Schools, Calgary, Alta.

The Teaching of Psychology to Teachers-in-training—A. H. Abbott, B. A., Ph. D., University of Toronto.

ELEMENTARY SECTION.

President-Mr. Montgomery Campbell, Montreal.

Foundation work in Primary Education-J. P. Hoag, B.A., Inspector of Schools, Brantford. Home Economics—Mrs. Adelaide Hoodless, Hamilton, Ontario. Music in Public Schools—A. T. Cringan, Music Bac., Normal School, Toronto.

Practical Manual Training—Chas. F. Errett, Brantford, Ontario.

Art in Public Schools—Miss Jessie Semple, Supervisor Drawing, Toronto.

Influences making for permanent Canadian Nationality—Wm. Houston, M. A., Toronto.

First Espandish in Polystical Super D. Molntyre, M. A., Winnings. First Essentials in Education—Supt. D. McIntyre, M. A., Winnipeg.

KINDERGARTEN SECTION.

President-Miss McIntyre, Toronto.

New Developments in Kindergarten Work-Miss McIntyre, Director of Kindergarten Normal School, Toronto.

Stories and Story-telling—Miss Mary Adair, Girls' Normal School, Philadelphia, Development of Artistic Expression—Miss Ada Baker, Normal School, Ottawa, Practical Problems Encountered in Establishing Kindergartens in New Districts—Round Table Conference.

Supervision of Kindergartens and Criticism of Students' Work-Miss Geraldine O'Grady, Supervisor of Kindergartens, Brooklyn.

Address—Miss L. Currie, Supervisor of Kindergartens, Toronto.

(Owing to the kindness of the University of Toronto, all meetings will be held in the University buildings.)

NORMAL INSTITUTE FOR EASTERN COUNTIES.

At Antigonish, 21st to 26th Oct., 1907.

At a meeting of the Executive Committee of the Teachers' Normal Institute for the Island of Cape Breton and the counties of Antigonish and Guysboro, held at Mulgrave on April 5th, it was decided to hold the Institute, for this year, at Antigonish during the week beginning Monday, October 21st. On account of the facilities offered by the well-equipped laboratories of Antigonish Academy, it was considered advisable to conduct classes in Physics, in addition to the Normal teaching of the subjects of the common school course.

Copies of the general program and of the time-table can be obtained, on application, from the Chairman, A. G. Macdonald, Antigonish, or from the Secretary, E. B. Smith, Esq., Principal of Port Hood Academy.

THE MEDICAL EXAMINATION OF SCHOOL CHILDREN.

As the School Law has been amended by the Legislature this session, so as to allow school boards to make provision for the free examination of pupils wherever it may be desired, the following abstracts of papers or reports of speeches explaining the movement are published here for the information of teachers and trustees of schools.

The specific statements of the Supervisor of the Halifax schools respecting conditions found in two schools there, which were published in the Halifax daily papers, may be assumed to have been already seen

by the school authorities in the more progressive sections.

ON THE IMPORTANCE OF THE PERIODICAL EXAMINATION OF THE TEETH OF CHILDREN ATTENDING THE PUBLIC SCHOOLS.

By Dr. Hibbert Woodbury, Halifax.

The face is more than any or all others the part upon which the soul throws its lights and shadows, through which it speaks. And the mouth is the facial point. The importance for illustration let us consider two of the common causes of facial distortion. One the receding lower jaw and teeth accompanied by protruding upper teeth and maxilla, so often expression, and is generally attended by the injurious habit of mouth breathing. The second illustration is just the reverse. Protruding lower maxilla and defective development of the superior arch. The latter condition is generally caused by maloclusion of the permanent teeth and appears between the ages of six and fourteen. This gives the prominent chin and bull-dog expression. Such ones could have had the pleasure of graceful expression and symmetrical profile if proper treatment had been resorted to.

As man is an omnivorous animal, with the incisors of the rodent, the canines and bicuspids of the carnivora, also the molars of the herbivora he is calculated to live upon a varied bill of fare. We meet this complete dental equipment at the very portal of the alimentary canal. The proper incorporation of the saliva with the food is accompanied by thorough mastication. If any teeth posterior to the canines are missing or disappeared from decay just that much masticating surface is lost. Again we see the evil effects of decayed teeth, and the accompanying unsanitary condition of the oral cavity upon the throat and lungs. More and more is the watchword "pure air." We all know that a large percentage of the air inhaled is taken directly through the open mouth. Let us think of cavities of decay a cesspool more or less septic. One with a mouth in that condition might be in the purest mountain air and yet every inhalation must of necessity be tainted. If this effect upon the throat and lungs.

Decay of the teeth may be caused by overcrowding. Imperfect tooth structure, abnormal condition of the fluids of the mouth, sluggish circulation of the saliva, due to its viscid character holding particles of food in contact with the teeth long enough for fermentation to take place, that mouth is a kind of still water where drift stuff gathers.

The care and preservation of children's teeth may be brought about by enlightening those whose duty it is to look after the welfare of the young. Much can be accomplished

by instructing and interesting our school teachers.

If cleanliness be next to godliness that surely should apply to the mouth. Without giving here any specific rules for the care of children's teeth, we may indicate some of the ground to be covered. The proper use of the tooth brush and suitable dentifrices. When to be used. Teaching the children to frequently examine their teeth with a mirror and in this way learning to prize the natural teeth. The importance of treatment in the early stages of decay. In fact the prophylactic treatment rather than remedial of the mouth

Some countries in Europe are giving this matter careful attention. The cities of Strassburg and Darmstadt have most complete rooms and equipments for this purpose of examining children's teeth and go so far as the treatment. The matter is receiving attention

in many States in the Union.

At the Nova Scotia Dental Association held in 1906 a Committee was appointed with this matter in charge. The subject was presented to the Provincial Teachers' Association held in this City in 1906 and was favorably received. It is also hoped that legislation will be secured leading to the dental inspection of school children's teeth. This convention is evidence of the growing and deepening interest taken by men of different callings in the health of our people. Recognizing that the young life of our country is the most valuable asset we have, we are confident that healthy environment will go far in producing clean living.

"THE RELATION OF CERTAIN EYE CONDITIONS TO SCHOOL CHILDREN."

By Dr. R. Kwatt Mathers, Halifax,

When Dr. Reid asked me to read a short paper of ten minutes' duration on "The relation of certain eye conditions to school children," I felt I could hardly do justice to such a subject in so short a time; but perhaps a hasty skimming over the various diseases and

refractive errors may, I trust, prove of some value.

The idea of this paper will be merely to mention the diseases and briefly to touch on the signs and symptoms which children manifest, so that we may not pass over the things

which seem trifling, but which may eventually lead to some serious condition.

It seems pitiable the way children's eyes are neglected and how they are allowed to

suffer and often lose useful sight for want, of a little care and thought.

Squint.—How often is this unsightly deformity neglected by the parents, simply because they have a dread of an operation, when very often such is quite unnecessary, as a careful fitting of glasses under a mydriatic would correct this deformity, and, if not taken too late, save useful vision in the squinting eye which otherwise would become about useless from non-use. If an operation is found to be necessary, not only the cosmetic effects, but also the vision will be found to be greatly improved in time. Besides glasses, the stereo-scope may be utilized to strengthen the muscles of the eye.

Hyperopia and Astigmatism, separately or in combination, are frequently found. teacher may consider these children stupid, simply because they will not study. The reason in the vast majority of cases being that near work is rendered fatiguing and causes severe headache. These children are often peevish and irritable. A proper correction of these refractive errors under a mydriatic (it is useless otherwise) will relieve the pain and make them different children. They often suffer from blepharitis, hordeolum and blepharospasm.

Mannia. This most covious and discount about the constitute watched. It is due to the

Myopia - This most serious eye disease should be carefully watched. It is due to the elongation of the globe, and may sometimes be detected by prominence of the eye. If a person complains of specks in front of the eyes, screws up the eyelids and is troubled with

conjunctivitis, which resists treatment, myopia should be suspected.

Children who suffer with this affliction should have their eyes examined and refracted at least once a year. They should be given their full glass correction where possible, and made wear their glasses continuously, so as to do away with all eye-strain, and thus help prevent the myopia increasing. They should be given front desks in school with the best light, their studying of which myops are applied to the property of the studying of which myops are studying the studying of the studying Prevent the myopia increasing. They should be given front desks in school with the prevent the myopia increasing. They should be given front, should be restricted, and they light, their studying, of which myopes are usually very fond, should be restricted, and they should be made to take regular out-door exercise, the general health looked after and all extra reading prohibited. Reading in bed is a very bad habit that some of these children has Blepharitis.—Hyperopia or astigmatism should be suspected in this disease. It is often met with in delicate children or may follow an attack of measles or scarlet fever; also it may be seen with an eczematous eruption on the face. Corneal ulcers and phlycte-

nular conjunctivitis are not infrequent complications.

Phlyctenular Conjunctivitis.—This condition is usually accompanied by pain and photophobia. The children suffering from this disease are usually in poor health and have some nasal or postnasal trouble which should not be forgotten in the treatment, as it will in the majority of cases hasten the cure. One must not be content with an examination on the child, but must enquire very carefully into the conditions in which the child is living, as the poor ventilation of the home and the overcrowding in the sleeping apartments is a great factor in the causation of this disease.

I would like to mention one or two cases which show how much damage may be done to children's eyes by neglect of parents who had been advised to bring their children in for

re-examination and also for operation and had failed to do so.

Case One—Child age 8, had a squint in the right eye with vision 15-120; left eye normal; operation was advised but refused. The child was brought in four years later and complained that she could not see out of left eye that was normal before. On re-examination the vision in the right eye was practically gone, the left eye had become very myopic from strain and overuse and by the extra strain from the child being allowed to read in bed.

Case Two—Little girl aged 6 when I first saw her, but two years previous to this the father had consulted me about a squint, which he said the child had developed a few weeks before. I advised him to bring her in for examination at once. This he neglected to do for two years, till the squint had become very pronounced. The vision then in the squinting eye was only 3/200. On testing the child's eyes they were found to be very hyperopic. Glasses and muscle exercises were ordered, with the result that in a short time the squint was cured but the improvement in vision in the squinting eye was only about a third of normal.

MEDICAL EXAMINATION OF CHILDREN.

(From an address on the 22nd of last December in Melbourne, Australia, by Sir John Gorst, late vice-president of the Council of Education, Great Britain).

Another great question is the regular medical examination and inspection of schoo children. In Victoria, with your compulsory attendance laws, you have assembled in your classes the whole of the next generation of your people. You have a rare, a unique opportunity to test and examine the health of your people. No way in the world could be more accurate or more timely. If there is anything in your social order which tends to the deterioration of the race, here you find it out directly. If there is any remedial measure to be taken to improve your race, here you can apply it. Many diseases, many ailments, which after full growth are incurable and irremediable, can be cured in childhood. Besides this care of your rising generation, you can prevent the spread of infectious diseases. The bodies of ill-fed, ailing and weakly children are the great nurseries of the microbes which are the source of almost all diseases. Take in particular tuberculosis which, turning into phthisis, carries off so many young men and women. Its microbe is developed more easily and freely in the bodies of ill-to-do young children than in any other place. An examination of such children would insure their segregation until cured, and would do more than anything else to stamp out the disease. What an economic advantage is thus to be gained! Do not fall into the error, because the population of Victoria is well-to-do and parents can feed and clothe their children sufficiently, that that shuts out the necessity for examination feed and clothe their children sufficiently, that that shuts out the necessity for examination of hidden disease among the children of well-to-do people.

(From "The Doctor in the Public School," by John J. Cronin, M. D., in the American Monthly Review of Reviews for April).

We have shown beyond peradventure that physical defects exist in about sixty per cent. of all school children in New York; that in most cases these defects are remediable by proper treatment, and that the early discovery of these defects is the prime factor in the maintenance of the health of the school children and in enabling them to pursue their studies.

We have shown, furthermore, that backward, mentally deficient and truant children can be vastly improved by the early recognition of physical infirmicies which underlie their mental or moral defects, and that by appropriate treatment, if applied early enough, we can save these children from illiteracy, from drudgery in factories at small wages, or from

an almost inevitable criminal career.

In view of these facts, what can be more important than a systematic individual physical examination of every school child, at stated periods, and what can be of more lasting benefit than the early application of the proper treatment in all cases in which physical defects are found?

PUBLIC SCHOOL SANITATION.

PROVINCIAL HEALTH OFFICER'S CIRCULAR TO PUBLIC SCHOOLS.

To the Teacher.

The poisons of some of the common and also of some of the most loathsome diseases are frequently contained in the mouth. In such cases anything which is moistened by the saliva of the infected person may, if it touches the lips of another, convey disease. The

more direct the contact the greater the danger.

It is the purpose of health officials to keep in isolation all persons baving communicable disease during the time that they are infectious. But in many cases this is impossible. Little restraint is put on certain mild diseases as measles, whooping cough, chicken pox and mumps, and even such diseases as diphtheria, scarlet fever and tuberculosis are frequently so mild as to be unnoticed, and children affected with them mingle freely with others. It is probable that in such cases one of the chief vehicles of contagion is the secretion of the mouth and nose. It is believed that much can be done to prevent contagion by teaching habits of cleanliness. But if such instruction is to be effectual it must be continuous. The teacher must notice and correct violations of these rules as habitually as the violation of the more formal school rules are corrected.

When the floors are swept, wet sawdust (not wet enough to wet the floor), should be sprinkled on the floor in front of the broom, as it will collect the dust and prevent it from rising, leaving the floor clean and dry. The custom of sprinkling water on the floor before sweeping is to be avoided, because where the drop of water falls the dirt is fixed to the floor and is very imperfectly removed by the broom. When the floor dries it is but little better

than it was before it received attention.

The janitor or caretaker should at least once a week go over the walls, window and door casings, ledges, corners, etc., with a cloth DAMPED (preferably in any disinfecting solution), even with plain water, so as to remove all the adhering dust. Cloth wants to be

very damp. Even if the question of disease and contagion did not enter into the matter at all the subject ought to be given more attention by teachers. Our schools should not only teach reading, writing and arithmetic, but it is perhaps quite as important that they should inculcate cleanliness, decency, refinement and manners. Cleanliness should be taught for its own sake, even if it had no relation whatever to health.

CHILDREN SHOULD BE TAUGHT

to wash the hands and face often, and keep their person and clothing clean; for if one should then be taken down with a communicable disease there will be less danger of infect-

ing other pupils or things.

They should also be taught the reasons of the following rules, and carefully watched and directed until all objectionable habits are lost and replaced by good habits. This duty is really the most important work of the teacher, and should be done even should the teaching of the book lessons he delayed.

TO BE PLACED IN EVERY CLASS ROOM AND GIVEN TO EVERY PUPIL.

Remember These Things.

Never spit on a slate, floor, or sidewalk. Do not spit if you can help it.

Do not put the fingers into the mouth.

Do not pick or wipe the nose on the hand or sleeve.

Do not wet the finger in the mouth when turning the leaves of books.

Do not put pencils into the mouth or wet them with the lips.

Do not put money into the mouth.

Do not put pins into the mouth. Do not put anything into the mouth except food and drink.

Do not swap apple cores, candy, chewing gum, half eaten food, whistles or bean blowers, or anything that is put in the mouth.

Do not drink out of the common drinking cup before allowing some of the water to run

over the edge of the cup that is to be applied to the lips.

Never cough or sneeze in a person's face. Turn your face aside. Keep your face and hands clean; wash the hands with soap and water before each meal.

A. P. REID, M. D., Provincial Health Officer.

TO SCHOOL TRUSTERS.

(DUST AND DIRT IN THE SCHOOLROOM.)

Physicians and scientific men have for years been studying dust, and its effect in causing disease. They have gathered it in schools, public buildings and dwelling houses, have examined it under the microscope, added it to substances in which germs will grow, have compared these germs with those known to cause different diseases, and have found it to be one of the great disease carriers.

The finest and lightest dust which cannot be seen by the naked eye, or can only be seen as motes when a beam of sunshine passes through the room, is by far the most

dangerous.

Many scores of times the dust collected in various places has been administered to animals (fed to them, injected into the lungs or under the skin), with the result that sickness

or death followed—according to the germs present.

It is well-known that consumption of the lungs (tuberculosis), that great scourge of the human race, is spread by means of dust, and in hardly any other way. The dust of a room in which a consumptive has been spitting about the floor is more deadly than arsenic or strychnine, and injected under the skin of an animal causes it to die of tuberculesis in a few weeks. If the dust is breathed by a human being, he is very likely to contract the disease and die.

Other disease germs are carried in the same way, and it has very often happened that dust carried to a child's mouth by his fingers or breathed in from the air has formed the starting point to a case of fatal illness without the parents, or perhaps even the physician,

suspecting the true origin.

Nor is this all. Dust in any form, breathed in day after day for years, irritates and inclames the delicate tissues of the child's lungs, until like a well-ploughed, well-manured field, they become a favorable growing ground, so that when germs are inhaled, instead of being starved out as they often are in healthy tissues, they flourish exceedingly and the child sickens, suffers and dies.

These are not dreams but facts, proved many times over by men whose whole lives are given to studying and fighting disease, and I would earnestly ask your sympathy and help in seeing that the following rules are observed, and if we succeed in preventing even a little

sickness, and in saving even one life, we shall have had our reward.

DIRECTIONS FOR THE CLEANLINESS OF THE SCHOOLROOM.

- Have the Schoolroom, Halls and Entries swept every day.
 - Note Every good housekeeper sweeps her house every day much more necessary is it in a building where many children are crowded together for six hours a day, and into which dirt and germs are dragged from every part of the section.
- II. Raise the windows while sweeping, and keep them raised for some time afterward.
 - NOTE .- By keeping the windows open much of the dust will blow out-
 - III. Before sweeping sprinkle the floor with damp saudust; don't use water.
 - Note -Sawdust is the best substance, and can generally be easily obtained and kept in barrels. It keeps the dust from rising and settling again after the room is swept. Sprinkling with water simply binds the dust to the floor, ready to rise again as soon as dry.
- At least an hour before school opens the schoolroom should be carefully dusted, especially the tops of desks, seats, window ledges, etc.
 - The schoolroom should be thoroughly scrubbed at least every month.
 - Note.-If scrubbing, perhaps every week, is necessary in our homes, how much more so in our schoolrooms, where there are so many to drag in dirt. Besides, dust is even more dangerous to children than to grown persons.

Once a year the walls, floors, desks, etc., should, after being scrubbed, be wetted over with a mixture of carbolic acid and water, four teaspoonfuls of the acid to a pint of water.

> Note. - Such a cleansing of the schoolroom would kill all germs, and if this could be done at the Christmas vacation (germs are more virulent in winter) it would go far toward the health of the school.

TO TRACHERS.

Post a copy of the "Health Rules for Pupils" where it can be easily read.

Give a series of short lessons on these rules and the reasons for them. Check the practices therein condemned. Make frequent reference to them and, as far as possible see that they are observed.

Read carefully the "Circular to Trustees"—talk it over with them

and assist in carrying it out.

Try and persuade the physician of the section to impress upon the ratepayers the connection of dust and dirt with disease and to advocate the more frequent scrubbing and sweeping of the schoolroom.

See that the water bucket is thoroughly scrubbed every week.

a cover for it in order to keep out the dust.

NOTES ON "HEALTH RULES FOR PUPILS."

The following brief notes are given so that the teacher can explain and apply the rules

more intelligently.

The germs which cause tuberculosis (consumption), pneumonia, lagrippe, diphtheria and many other diseases are found in the saliva, especially when mixed with secretions or discharges from the nose, throat or lungs. It is not uncommon for these diseases to exist in so mild a form that the child is hardly sick and yet such cases are capable of spreading the disease. The spit mixes with the dust on the floor, becomes dry, the germs are set free, rise in the air, enter the lungs and cause the disease.

Children are not careful as to what they handle and their chances of acquiring disease

are much increased by putting their fingers into their mouths

The long passage from the nostrils to the lungs gives off and is constantly wet with a sticky secretion, the object of which is to strain the dust, disease germs and other foreign substances from the air before it reaches the lungs. It will be readily understood that this secretion, even from a healthy person, might contain disease germs. Remembering Both paper money and coins are capable of carrying dangerous germs. Remembering that money is frequently handled by persons affected with the most loathsome diseases, the necessity of this rule will be at once understood.

necessity of this rule will be at once understood.

The intelligent teacher will be able to apply the principles given above to all the rules, and show the pupils the great necessity of observing them.

TO THE TEACHER -The carrying out of the directions for the cleanliness of the schoolroom and the health of the pupils depends almost entirely on you. Let your own desk be a model of cleanliness and neatness. Put into practice yourself the rules given for pupils. Your example in these respects will carry more weight with the pupils than anything else.

Should your schoolroom become dirty or the outbuildings and premises be in an unsanitary condition, through the neglect of the trustees or

those in charge, do not fail to report to your Inspector at once.

EDUCATIONAL LEGISLATION, 1907.

[For the legislation from the issue of the Manual of School Law. 1901 to 1906, see the JOURNAL OF EDUCATION, April, 1906.]

NOVA SCOTIA TECHNICAL COLLEGE.

An Act relating to Technical Education.

(Passed the 25th day of April, A. D., 1907.)

SECTION. $\frac{1}{2}$.

- Citation. Director.
- Duties of Director.
 Gov.-in-Council may accept gifts
 for objects of this Act.
 When established.
- Name of institution.
- Power to borrow.

- Rules and regulations.
 Principal of institution.
 Appointment of professors.
 Teaching staff.
- Annual expenditure, how defrayed. Local schools.

SECTION

- When established.
- 15. Rules and regulations. 16.
- Instructors. 17. Maintenance.
- Schools for miners.
- 19. Purposes.
- 20. Supervision. 21. Instructors, how appointed.
- Instruction free.
- 23. Examinations free.
- Expenditure, how provided. 25. Regulations.
- 26. Act repealed.

Be it enacted by the Governor, Council, and Assembly, as follows :---

Citation.

This Act may be cited as "The Technical Education Act."

DIRECTOR OF TECHNICAL ELUCATION.

Director.

The Governor-in-Council may appoint a person to be Director of Technical Education, who shall be an officer of the Council of Public Instruction, and shall be paid such annual salary (and receive such allowances) as the Governorin-Council determines.

- (2) The Council of Public Instruction shall, upon the recommendation of the Director, provide the Director with such assistants as may be found necessary, and shall define their duties and fix the salaries they shall receive.
- 3. The duties of the Director of Technical Education Duties of shall be as follows:—
- (a) To exercise general supervision over the conduct and management of all schools established or carried on under the provisions of this Act;
- (b) To report to and advise the Council as to all matters relating to engineering, mining and industrial education;
- (c) To promote the establishment and efficiency of local technical schools and other schools under his supervision;
- (d) To report annually to the Legislature on the state of technical education in the province, and as to the condition and efficiency of the schools under his supervision, with detailed accounts of the expenditure of the moneys appropriated for the support of the same;
- (e) Such other duties as the Council of Public Instruction from time to time prescribes.

TECHNICAL COLLEGE.

be added.

- 4. The Governor-in-Council, on behalf of the province, Gov.-in-Council may accept, take, hold and administer any gifts, bequests to object of this or devises of real or personal property of every kind which have may be made for the furtherance of any of the objects of this Act.
- 5. There shall be established at Halifax an institution when established the purpose of affording facilities for scientific research and instruction and professional training in civil, mining, mechanical, chemical, metallurgical and electrical engineering or any other departments which may from time to time
- 6. The institution shall be called the Nova Scotia Name of inatitucion. Technical College.
- 7. The Governor-in-Council is hereby authorized to Power to borrow a sum not exceeding \$100,000, and to expend the same in securing a site, erecting a building and in providing

adequate apparatus, plant, books, materials and appliances for the purposes of said institution.

Rules and regulations.

8. The Council of Public Instruction may from time to time make such rules and regulations as it deems expedient for the efficient conduct of the said institution, and may amend or repeal the same.

Principal of institution.

9. The Director of Technical Education shall be the principal of the said institution.

Appointment of Professors.

recommendation of the principal, appoint such professors and instructors as the Council considers requisite for the purposes for which the institution is established.

Teaching staff.

- 11. (1) The members of the teaching staff of the institution having the rank of professors, and such representative of any university of the province or elsewhere as the Council may select, shall constitute a body corporate, under the name of the Nova Scotia Technical College.
- (2) The said corporation shall have power to grant such degrees as it may determine, to prescribe the several qualifications therefor, the course of study to be pursued in the several departments, and in respect to all matters of discipline and all matters connected with the educational work of the institution shall have the conduct and control thereof.
- (3) In the event of any part or parts of the course of study prescribed for the said institution for the first and second years being included in the educational work done in the universities recognized by the Council in this province or elsewhere, the Council of Public Instruction shall exclude such part or parts from the course of study of the said institution.
- (4) The principal shall report from time to time the proceedings of the corporation to the Council of Public Instruction, and the Council may modify or reverse any action or ruling taken or made by the corporation.

Annual Expenditure, how defrayed.

12. The annual expenditure incurred in connection with the institution shall be defrayed out of the provincial treasury.

LOCAL TECHNICAL SCHOOLS.

- 13. The Governor-in-Council may from time to time Local schools. establish, in such places as it may be deemed advisable, local technical schools to furnish industrial education of such character and extent as will most effectively meet the requirements of the population and industries of the locality.
- 14. No such local technical school shall be established When established until the necessity or desirability thereof, the amount of local aid to be furnished, the facilities which can be afforded and the advantages to be derived have been reported upon by the Director of Technical Education, and he has recommended the establishment of such school.
- 15. (1) The Council of Public Instruction may make Rules and such rules and regulations as they deem advisable for the support, conduct and management of the school.
- (2) Subject to such regulations the Council may associate the Board of School Commissioners of the place in which the school is established, or a committee thereof, or any other person or persons with the Director in the management of any local technical school.
- 16. The Council of Public Instruction shall, upon the Instructors, recommendation of the Director appoint such instructors as may be required for the carrying on of such schools and shall fix their salaries.
- 17. Such sums as may be required in addition to the Maintenance. local aid provided, for the establishment and maintenance of the local technical schools shall be paid out of the Provincial treasury.

SCHOOLS FOR MINERS.

- 18. The schools of instruction for miners established schools for under the provisions of chapter 22 of the Revised Statutes, 1900, "Of Schools of Instruction for Miners," are hereby continued and hereafter the establishment and maintenance of such schools shall be under the direction of the Council of Public Instruction.
- 19. Such schools shall be for the purpose of instructing Purposes. Persons who wish to prepare themselves to undergo examination by the board of examiners for the purpose of

obtaining certificates of competency as underground managers or overmen or stationary engineers, under the provisions of "The Coal Mines' Regulation Act," and amendments thereto.

- Supervision.
- 20. All such schools shall be under the supervision and control of the Director of Technical Education.
- Instructors, how 21. (1) The instructors in such schools shall be appointed. pointed by the Council of Public Instruction upon the recommendation of the Director.
 - (2) Such instructors shall be paid such salaries as the Council determines.
- Instruction free.
- 22. No teacher in any such school shall take from any intending candidate any fee for the instruction given by him; provided, however, that this provision shall not apply in the case of any person desiring instruction but not contemplating examination for a certificate.
- Examination free.
- 23. No fee shall be charged by the board of examiners to candidates who have been prepared at any school established or continued under the authority of this Act.
- Expenditure, how provided.
- 24. All expenditure necessary for the establishment and maintenance of said schools, including buildings, rent, apparatus, instruments, instruction, fuel, light and incidental expenses shall be defrayed out of the provincial treasury on the certificate of the Director of Technical Education.
- Regulations.
- 25. The Council of Public Instruction may from time to time make such regulations as are necessary or expedient for the conduct and management of said schools, and may amend or repeal the same.
- Act repealed.
- 26. Chapter 22 of the Revised Statutes, 1900, "Of Schools of Instruction for Miners," is repealed.

EDUCATIONAL AMENDMENTS, 1907.

An Act to amend Chapter 52, Revised Statutes, 1900, "The Education Act."

(Passed the 25th day of April, A. D., 1907.)

SECTION.

Sub-section 1, section 23 amended.
 Sub-section 2, section 23 amended.
 Sub-section 1, section 24 amended.
 Sub-section (b), section 55 amended.

SECTION.

Section 77 amended.
 Section 99 amended.
 Chapter 7, acts of 1907 amended.

Be it enacted by the Governor, Council, and Assembly, as follows :---

- 1. Sub-section one of section twenty-three of chapter Sub-section 1, 52 of the Revised Statutes, 1900, "The Education Act," is amended, amended by inserting the word "resident" before the word "ratepayers" in the first line.
- 2. Sub-section two of said section twenty-three is sub-section 2, amended by inserting the word "resident" before the word amended. "ratepayers" in the second line.
- 3. Sub-section one of section twenty-four is amended section 1, by striking out the word "of" in the fifth line and insert-amended. ing in the place thereof the words "residing in."
- Sub-section (b) of section fifty-five is amended by sub-section (b), striking out of the third line the words "or unlicensed, amended, with the brackets enclosing the same.
- Section seventy-seven is amended by adding the Section 77 amended. following sub-section (gg):—
- (gg) "Any necessary expense for the periodical dental and general medical examinations of the pupils attending echool."
- 6. Section ninety-nine of chapter fifty-two of the Revised amended. Statutes, 1900, "The Education Act," and all Acts in amendment thereof, are repealed and the following substituted therefor:-
- 99. (1) If, in any school section where sectional assessment is required to support a free public school, no provision is made at the annual meeting for the support of a school

for the ensuing year, or if no annual meeting has been held, or if the provision made at said annual meeting proves to be insufficient to have a school provided and opened before the twentieth day of September in any year, the committee of the District Board appointed under section thirteen of the Education Act shall, when notified by the Inspector that any section is without a school for any of the above reasons, appoint not more than three trustees in the said section interested in the keeping school open, and they shall thereupon be and become the trustees of the said school section with all the powers and authorities vested in trustees under the Education Act in the place of the trustees, if any, elected by the ratepayers, whose duties shall, during the remainder of said school year, be suspended.

(2) The said trustees or trustee so appointed, shall forthwith estimate and name the sum of money which they deem sufficient for the support of a school for the remainder of the current school year, and shall submit their estimate to said committee for its approval, and when so approved of, the amount thereof shall be communicated to the Inspector by the said committee in writing.

Provided, however, that if the committee of the District Board is unable to secure desirable trustees or trustee, they shall notify the Inspector of that fact, in which case the Inspector shall have all the powers of trustees for the school section as provided in this section, and shall forthwith estimate and name the sum of money which he deems sufficient for the support of a school for the remainder of the current school year, and shall submit his estimate to the said committee for its approval as above provided for, which approval shall be communicated to the Inspector by the said committee in writing.

(3) The Inspector shall certify the said sum to the municipal clerk who shall levy the said sum so fixed on the section in the same manner as if it had been voted for school purposes at a regular school meeting called for the purpose, and shall prepare a collectors' roll for the collection of the same. The regular municipal collectors shall collect such rates and taxes in the same manner and with the same remedies and for the same remuneration as in the case of other municipal rates and taxes and shall return the same to the municipal treasurer.

- (4) The amount so collected shall be paid on the order of the Inspector to meet the necessary expenses for the support of a public school in the said section.
- 7. Section one of chapter seven of the Acts of 1906, Chapter 7, entitled an Act to amend chapter fifty-two, Revised Statutes, amended, 1900, "The Education Act," is amended by adding thereto the following section:—
- 128. "Such school boards, municipal councils and trustees are hereby empowered to enter into any agreement with any annuity company to undertake the payment of such annuities under such agreements as may be approved by the Council."

REGULATIONS OF C. P. I., 1907.

SCHOOL THROUGH SUMMER VACATION.

(C. P. I., 22nd February, 1907.)

Ordered, That on the recommendation of the Inspector, the Superintendent of Education may allow schools closed during the earlier portion of the school year on account of the impossibility of obtaining a regularly qualified teacher, to continue the school during the summer vacation, 13 as to make up any portion of the time of teaching lost, provided a special return be sent in to the Inspector for the time taught during the said vacation period, and that the public grants shall become due on the said special return at the end of the following half school year.

CONVEYANCE OF PUPILS TO CONSOLIDATED SCHOOLS.

(C. P. I., 26th April, 1907.)

Ordered, That in the case of consolidated school sections where the conveyance of pupils more than two and one-quarter miles from school is necessary, it shall be deemed sufficient to provide satisfactory conveyance of these distant pupils to and from a point not much exceeding one and one half miles from the school, or the same distance one way towards the school in the morning, or towards the pupils' homes in the evening—sufficient time to be allowed for the pupils to be "in time." No contract for the conveyance of pupils can be completed by the school trustees without the formal approval of the Inspector of Schools and of the Chairman of the District School Commissioners.

SYLLABUS AND CERTIFICATES OP M. P. Q. EXAMINATION.

The last five lines of Regulation 107, from "(1) School Law and Management.... to......."no paper below 30," and the whole of Regulation 115, shall on and after the first day of August, 1907, stand repealed, and the following simplification of the minimum professional qualification syllabus and alterations of the certificates shall come into effect in their stead.

The questions set for the minimum professional qualification examinations shall be on the following syllabus:
1. School Law and Forms.

The Acts of the Legislature and Regulations of the Council of Public Instruction bearing on public education, with their latest amendments, and

a knowledge of the way in which the law is to be administered.

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 hy school boards in administering the affairs of the section.

Theory and Practice of Teaching.

As in Calkin's "Notes on Education," or any equivalent.

Hygiene and Temperance.

As in Knight's "Introductory Physiology and Hygiene," the Education Act and Regulations, and the text books prescribed for the public schools.

4. School Management.

As in Lectures on Teaching, by Sir Joshua Fitch,

History of Education.

As in Educational Reformers, by Quick, or an equivalent,

For Third Rank M. P. Q.—An aggregate of 150 on 1, 2 and 3, with no subject below 30per cent.

For Second Rank M. P. Q.—An aggregate of 250 on 1, 2, 3, 4 and 5, with no subject or 40 per cent.

below 40 per cent.

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

RURAL SCIENCE SCHOOLS AND GARDENS.

Regulation 36, pages 66 and 67 of the "Manual of School Law. Nova Scotia, 1901," has been repealed and the following substituted in its stead:

36. Rural Science Schools and Gardens:-To qualify under section 69 of chapter 52 of the Revised Statutes of 1900, the teacher of a school must have an Agricultural or Rural Science diploma as specified in the clauses following, and must notify the Inspector at the opening of the school each year of the classification to be competed for—
"superior," "good" or "fair" of the Statute, which are the equivalent respectively of "A₁", 'A₂" and "A₃" of Regulation 34 preceding:

(1) The "Agricultural diploma" shall be known hereafter as the "Rural Science diploma" and shall be awarded hereafter to First Rank graduates of the Provincial Normal School, who subsequently to graduation have completed with credit a prescribed course conduct the state of the provincial Normal School, who subsequently to graduation have completed with credit a prescribed course conduct the state of the provincial Normal School, who subsequently to graduation have completed with credit a prescribed course conduction.

conducted by the science instructors of the affiliated institutions in Truro.

(a) The course of study for the Rural Science diploma shall extend through at least fourteen months, requiring the candidates attendance during a summer term of six weeks (July and August) and a following term, beginning the first week of March and ending with the ensuing summer term, and requiring in addition during the August to March interim, reading and practical investigation prescribed by the instructors of the affiliated institutions. (b) As an alternative candidates shall be held to be qualified for the diploma who

have completed with credit four summer terms of at least six weeks as well as the prescribed

interim work.

have already completed a summer term and the prescribed interim work.

(d) The course of study for the rural Science diploma shall comprise:-Applied Chemistry: especially laboratory investigation of the chemistry of the air, of the soil, of plants and of plant food; of the chemistry of household processes; of physiological.

Applied Physics: especially weather phenomena and the phenomena of radiation, conduction, convection as bearing on ventilation, air drainage and agriculture; texture of soil, percolation, capillarity, and other problems of soil-physics; transmission of fluid pressure, and problems of water supply; simple astronomical phenomena.

Geology: field-work in the study of surface phenomena and of the dynamics of the

earth; minerals, their distribution, properties, uses, chemical composition.

Biology: plants and animals studied in the concrete, especially the ecology of those plants, animals, birds, insects and bacteria which play important parts in the economy of nature.

Horticulture . especially the management of school gardens, each student preparing, planting and caring for a plot of ground, making a hot-bed and a cold-frame, practising

grafting, budding, layering and other methods of propagation.

(2) Any such licensed teacher intending to compete for classification as "fair," "good," or "superior," under section 69 of the Education Act, must give notice of this intention at the opening of the school to the inspector, who has at the end of each half-year to rank the school; and the lack of such notice shall be a disqualification even should all the other conditions be apply to the conditions because the conditions are conditions and the conditions are conditions as "fair," "good," and the conditions are conditions are conditions as "fair," "good," and the conditions are conditions as "fair," "good," and the conditions are conditions are conditions as "fair," "good," and the conditions are conditions are conditions are conditions as "fair," "good," "good, "g conditions be complied with.

(3) For the lowest rank "fair" the school should have the equipment specified in Reg. 51, a and b, must have a school garden of not less than one eighth of an acre, one third of which the rest to be set out as which should be set off in beds 4 x 10 feet with walks 3 feet wide, the rest to be set out as an arboretum and shrubbery, part set out each year till all is planted, and a library of not less than 15 volumes in addition to the prescribed books of reference. The school must in all row all respects be conducted as a first-class school with special excellence in Nature Study.

(4) For the rank "good" the school should, in addition, have the equipment specified in Reg. 51, c and d, with a library of not less than 25 volumes, a well conducted school garden of one-fourth of an acre, one-third of which must be in beds as above, the rest arboretum and should be a support of the rest arboretum arbor tum and shrubbery as above, and must be conducted in all respects as a first-class school with good demonstrations in Nature Study done by the individual pupils and the school general. generally

(5) For the rank "superior" the school should have, in addition to the requirements of the previous ranks, the equipment specified in Reg. 53, with a library of not less than

forty volumes, a school garden containing three eighths of an acre, one third of which should be set out in beds as above, the remainder as arboretum and shrubbery as above, with a special class of pupils doing advanced work in Nature Study of such a character as to be clearly advancing the industrial methods of the community in at least some depart-

ment of agriculture, horticulture, forestry, etc.

(6) The "small" standard school garden should not be less than one eighth of an acre-(54445 square feet), one-half of which might be set out as an arboretum and shrubbery, the tem, separated by walks three feet broad. This arrangement would give one bed to each of thirty pupils. The younger pupils might be assigned in twost to each bed. The grounds should be prettill forced and heat in good order over desired to leach bed. The grounds should be prettily fenced and kert in good order, even during holidays, when they should be visited by relays of pupils at least once a week. Such a school garden might be recommended by the Inspector for ten, fifteen, twenty or twenty-five dollars per annum from the municipal fund, according to the excellence of the general condition of the school, provided the School Board spend at least as much on the plowing, fertilizing, etc., forming the annual current expense of maintaining the school in order, in addition to the labor of the pupils and teacher.

(7) The "medium" standard school garden should be about one-quarter of an acre on the average, one-half of which might be set out as an arboretum and shrubbery, and the remainder divided into fifty or sixty "four by ten feet" beds separated by three feet walks, to be conditioned on the same general principles as the "small" standard. This would be the size of garden desired for the rank "good" where possible, drawing \$15, \$20 or \$25,

according to excellence, from the municipal fund.

(8) The "large" standard school garden should be over a quarter of an acre, with at least three times the number of "four by ten feet" plots recommended for the "small" standard, say from 75 to 100 individual beds. This would be the size of garden desired for the rank "superior"; drawing under the same general principles \$20 to \$25 from the muni-

(9) A small shed for the garden tools, with a projection, glass-roofed, facing the sunto serve as a miniature "hot-house" for forcing plants in spring, is a necessary part of any standard garden, a very cheap structure sufficing, especially for the "small" garden. The size, number and management of plots specified above are merely given as general directions when teachers or school boards have no other scheme which they deem superior. Any other arrangements approximating these conditions, but demonstrating novel or special advantages, or improvements, are not only allowable, but will be specially commended after a successful test.

(10) If the teacher or the secretary of the school board recorded under oath the attendance of pupils during the holidays in weeding and observing the beds, such time might be arranged through the Inspector to be substituted equitably, according to agreement, for an equivalent number of holidays during the winter or stormy weather of the school year following or the "days attendance" added.

(11) Inspectors may have to consult with each other, and perhaps exchange visits to the schools of each inspectorate, in order to be sure that the same standards of classification are maintained in each inspectorial division. The same conditions hold with respect to the inspection of Manual Training and Superior Schools generally. Notice of competition for school garden grants must be given to the Inspector at the opening of the school each year, and should be signed by the Secretary as well as the teacher.



JOURNAL OF EDUCATION.

APRIL, 1907.

OFFICIAL NOTICES.

The full number of legal teaching days in the half year, ended 1st February, was 105; in the second half year, ending 28th June next, there will be 103 days. Total teaching days for the year, 208.

CALENDAR, SUMMER, 1907.

- April 22. Fourth Quarter of school term begins.
- May 10. Arbor Day.
 - 23. Empire Day.
 - Victoria Day (holiday), last day to apply for Provincial Examination. 24.
 - Federal Conference on Education, London, England, opens. 24.
- Inspector's List, Candidates, Prov. Exam., sent to Education Office. 31.
- June Regular Annual Meeting of School Sections. 24.
 - Provincial Normal School closing. 27. County Academy Entrance begins. 27.
 - 28. Public Schools close for Summer Vacation.
- July 1. Dominion Day.
 - Provincial examinations Grade XII, begin; Last Day for Minutes 1. of Annual Meeting sent to Inspector.
 - 2. Summer School of Science opens at Riverside, N. B.
 - Provincial Examinations Grades XI, X, IX, begin.
 - Last Day for Annual "Returns" sent to Inspector. 6. M. P. Q. and Supplementary Examinations.
 - Summer Courses at Normal School and Agricultural College, Truro, 10.
 - Dominion Educational Association opens at Toronto. 10.
 - Last day for Inspectors' "Sheets" sent to Education Office. 16.
- Summer School of Science at Riverside, N. B., closes. 19.
- Aug. 1. School Year begins.
 - 12. Optional opening of Rural Schools.
 - Regular opening of Schools; beginning of First Quarter of School Term. 19.
- Sept Labor Day (holiday). $0_{\rm ct}$
- Normal School opens at Truro. Nov.
 - First Monday of Second Quarter.

DISTRICT SCHOOL COMMISSIONERS.

(Appointed 13th February, 1907.)

Cape Breton. Colchester, West. Rev. B. M. Mullins, North Sydney. Thos. D. Crowe, Portaupique. L. C. Layton, Great Village. John McInnes, Londonderry.

Inverness, South.
"North.

Rev. R. H. McPherson, Marble Mountain. Rev. G. J. Wilson, N. E. Margaree.

(Appointed 26th April, 1907.)

Cape Breton. Stirling.

Rev. D. McDonald, Dominion No. 6. Rev. Wm. Forbes, Tatamagouche.

Inverness, North,

Rev. Alex. McPherson, Broad Cove Chapel. Rev. J W. A. Nichelson, Inverness.

Inverness, South. Kings. Wm. McKay, N Side, Whycocomal. Rev D. J. Masdonald, Brook Village. J. Norman Robinson, Chipman's Corner.

Pictou, South.

W. H. Woodworth, South Berwick. John Underwood New Glasgow.

_

John B. McKay, Stellarton.

Jas. W. McLean, Thorburn.

Jacob Waterman, Greenfield.

W. C. McPherson, Greenfield.

Queens, North.

W. C. McPherson, Greenfield. Taylor Freeman, Greenfield. Lewis Freeman, Greenfield. Rev. D. Stiles Freer, Shelburg

Shelburne.

Rev. D. Stiles Fraser, Shelburne. Rev. Wm. Phillips, Shelburne. Dr. Joseph S. Morton, Shelburne. W. W. Atwood, Shelburne. Winthrop Bower, Shelburne. Charles Hayden, Jordan River. Alex. F. Harlow, Sable River.

Barrington.

Bertron Bower, Lower Ohio.
J. Leander Swaine, Port Clyde.
Daniel Matheson, Cape Negro.
Jas. W. Smith, Baccaro.
Jas. C. Snow, Port la Tour.

DATES OF MEETINGS OF BOARD; OF DISTRICT SCHOOL COMMISSIONERS.

*Halifax, Rural Wednesday	, May 29th. June 5th.
" West Tuesday, Ju	
‡Lunenburg and N.	
Dublin Saturday, I	May 4th.
Chester Saturday,	May lith.
North Queens Wednesday	May 15th.
South Queens Thursday,	Mav 23rd
Shelburne Wednesday,	May 8th.
Barrington Friday, Ma	v 10th.
Yarmouth Tuesday, Ju	ine 4th.
ArgyleFriday, Jun	e 7th.
Annapolis, West Monday, M	ov 13th.
Annarolis, East Tuesday, M.	ay 10011.
Digby Monday, M	O*+h
Clare Tuesday, M	av Zith.
Kings Tuesday, M	ay zotn.
Kings Tuesday, M	ay 14th.

Hants, West Friday, May 17th.
Hants, East Wednesday, June 19th
Antigonish Wednesday, May 15th
Guysboro Wednesday, May 29th
St Mary's Wednesday, June 12th
Cape Breton Tuesday, May 21st.
Tuesday, June 18th.
‡‡Inverness, North Thursday, July 11th.
Inverness, South Tuesday, June 18th.
†‡Richmond Wednesday, July 10th
Pictou, South Thursday May 16th.
Pictou, North Friday, May 17th.
Cumberland Thursday, May 18th.
Cumberland Thursday, May 23rd.
Colchester, South Tuesday, May 23rd.
Colchester, South Tuesday, May 7th.
Stirling Tuesday, May 14th.

^{*}At Middle Musquodoboit. +At Sheet Harbor. ‡At Lunenburg. ‡‡Margaree Forks.

At St. Peters. *At Great Village.

DOMESTIC SCIENCE LICENSES, 1907.

Susan Kent, Truro, N. S. 29.

Jean Patterson, Truro, N. S. 30.

RURAL SCIENCE LICENSES, 1907.

Agnes Spencer, Great Village, Colchester County. 1.

Harriet Carter, Truro, Colchester County. Clara Davidson, Truro, Colchester County. 3.

Maude Alice Brennan, Truro, Colchester County.

SCHOOL SECTIONS ON SECOND SCHEDULE, AUGUST, 1907.

Catalone, No. 65, Cape Breton.

Cheverie, No. 20, West Hants.

SCHOOL SECTIONS, MARCH ANNUAL MEETING, 1907.

Irishvale, No. 98, Cape Breton. Cleveland, No. 28, Richmond. Balmoral, No. 31, Richmond. Seabright, No. 8, West Halifax. Smith's Cove, No. 35, East Halifax.

East Port L'Herbert, No. 23, South Queens. Parker's Cove, No. 3, Annapolis West. South Belleville, No. 27, Argyle. Charlesville, No. 21, Barrington. East Sable, No. 3, Shelburne.

ERRATA.

October Journal, 1906, page 99, 1st column, 18th line, instead of "Sadie Spares, 554 X," read "Gladys Una Smith, 554 X."

October Journal, 1906, page 103, 1st column, line 41, instead of "Moise Victor auCoin, 436 IX," read "Effic Ann LeBlanc, 436 IX."

October Journal, 1906, page, 106, 2nd column, under "XII., 'partial',

Pictou," add "Barry F. Burgess, 928."

October JOURNAL, 1906, page 111, 2nd column, under "XII., 'partial', Truro," add "Margaret Electa Maclellan, 706."

SPECIAL STATISTICS FOR 1907.

The three questions for columns 118, 149 and 150 in the Register and Annual Return are to be filled in this year as below. It is desired to know how many pupils attending school have had during school year any illness believed to be Measles, Scarlet Fever or Diphtheria. The blanks are to filled, therefore, as follows :-

148-No. who had Measles during the School Year.

Scarlet Fever during the School Year. 149---"

150-" Diphtheria

NEW LEGISLATION, 1907.

The attention of teachers and trustees is directed to the preceding pages 102-109 containing the Amendment of the Education Act and the new Regulations of the C. P. I.

SANITATION IN THE SCHOOLS.

These instructions on pages 96-101, as well as all the other articles published, are important not only for teachers and trustees, but for candidates for the teaching profession. Public grants are not legally payable on account of schools where good sanitation is not maintained.

EMPIRE DAY.

The October Journal, 1906, beginning at page 183, gives ample references to literature for the occasion. The Witness, Montreal, supplies flags on good terms for schools. Teachers should not forget to report briefly the character of the exercises to the Inspector. We need not forget also that our province was the first portion of the Empire to make Empire Day a fixed institution of the School system.

LEAGUE OF THE EMPIRE AND LORD MEATH PRIZES.

Those have been fully described on pages 184 and 185 of the last October Journal, and need not be repeated here.

PUPILS' SCHOOL CORRESPONDENCE.

Teachers who wish to have their pupils linked in correspondence with pupils in other parts of the Empire, can be put in the way of doing so by communicating with

Mrs. E. M. Ord Marshall, Hon. Secretary "League of the Empire," Caxton Hall, Victoria St., Westminster, S. W., London, England.

The League of the Empire is the most convenient institution through which to get into touch with other schools for general school correspondence, nature

study correspondence, etc., as intimated in previous Journals.

The Federal Magazine is published monthly by the League, and makes a specialty of communication with the schools of all parts of the Empire. It contains regular accounts of the progress of the preparation for the Federal Conference on Education in London from the 24th May to the 1st June, where the Education Departments of all parts of the Empire will be represented. Annual subscription three shillings.

PROVINCIAL EXHIBITION, 1907.

Those interested in Natural History and Art are reminded that the Provincial Exhibition, Halifax, opens on the 25th September. As Halifax does not compete this year in the Education Department it is expected that other school sections throughout the Province may send as many school exhibits as possible. For information apply to

A. McKAY,

Supt. Educ. Dept. of Provincial Exhibition, Halifax.

DELAY IN ISSUING THIS "APRIL" JOURNAL.

The Provincial Legislature was not prorogued until the 25th of April, and the Advisory Board of Education, which was engaged on the revision of the "Course of Study" for grades IX, X and XI did not complete its work until the 27th April. It is not only important but necessary that the changes made should be promptly brought to the attention of all concerned. Hence the delay, which will be more than compensated for by the immediate publication of the new legislation.

THE ADVISORY BOARD OF EDUCATION.

Wm. Cameron, Esq., B. A., Pictou, Chairman.
B. McKittrick, Esq., B. A., Lunenburg, Secretary.
Hiram Donkin, Esq., C. E., Glace Bay.
A. G. Macdonald, Esq., M. A., Antigonish.
Prof. Howard Murray, B. A., Halifax.
Prin. E. J. Lay, Esq., Amherst.
Prin. W. F. Kempton, Esq., Yarmouth.

PROVISIONAL REVISION OF THE HIGH SCHOOL PROGRAM.

On the 27th of April the Advisory Board of Education presented to the Superintendent of Education recommendations for a revision of the "Provincial High School Course of Study" to the end of grade XI, requesting that the syllabus of grade XII be not published until October, after a further recommendation of the Board

The Superintendent immediately presented the recommendations to the Council, which ordered the recommendations to be put in form for publication in the forthcoming Journal of Education. Should any lack of articulation between the new regulations and the old ones be discovered in the meantime, it can be remedied in the October Journal. In the meantime the Provincial Educational Association's committee of sixteen are elaborating what may, with the future aid of the Advisory Board, become a stable course for a period of years—from the lowest to the highest grade. Suggestions made in writing will gladly be presented to the Advisory Board.

PROVISIONAL HIGH SCHOOL PROGRAM FOR 1907-8.

1. The maximum value of each examination paper shall be 100, and the passes shall be determined not by the aggregate mark, but by the average on the prescribed group.

The general pass shall be an average of 50% with no mark below 30%.

The Teachers' Pass shall be an average of 60% with no mark below 40% Two hours shall be given at examination for each paper; but while the time for each paper is doubled, there shall not be a proportionate increase in the number or length of questions usually given.

There shall be no optional questions; and all questions shall be from

within the limits of the work prescribed.

There shall be no "supplementary" papers for those desiring to raise a "general pass" to a "Teachers' pass." The candidate must take the supplementary examination on the regular examination papers on which a mark of 40% was not made.

7. The different grades must be passed in regular order. A "Teachers' Pass" of any grade implies 40% on each of the imperative number of subjects in

the grades below.

The "general pass" admits to the corresponding class in the Provincial Normal School, whose faculty can raise the general to the teachers' pass on evidence of improved scholarship, without which the Normal School diploma cannot be awarded.

9. From one to three points may be added by the examiner for specially good writing. Bad writers have no right to be admitted except on certificate of physical or unavoidable causes, and if examined, the papers are subject to

deduction of marks.

GRADE IX.

(English and any other five subjects imperative).

1. ENGLISH:

> (a) LITERATURE—Lamb's Tales from Shakespeare and Longfellow's Evangeline, with critical study, word analysis, prosody and recitations; English Composition as in Sykes, or an equivalent in the hands of the teacher, with essays, abstracts and general correspondence, so as to develop the power of fluent and correct expression in writing

(b) As in Grammar (except notes and appendix) with easy exercises in parsing and analysis.

LATIN: As in Collar and Daniell's First Latin Book, to end of Chapter L., or any equivalent grammar, with easy translation and composition exercises. [The Roman (Phonetic) pronunciation of Latin to be used in all grades].

GEOGRAPHY: Physical and Astronomical, General Geography of

Continents and British Empire in detail as in Calkin. ARITHMETIC: As in the Academic to page 63.

ALGEBRA: As in Hall and Knight's Elementary to end of chapter XVI.

DRAWING:

(a) As in Morton's Mechanical Drawing.

- (b) High school Drawing Course, No. 1, with model and object drawing and Manual Training No. 3.
- Science: Botany=60%. Spotton (except chap XIX) and the Genera: Stellaria, Acer, Potentilla, Senecio (or Aster), Veronica, Polygonum, Habenaria, Aspedium, Osmunda, Lycopodium.

Physics=40%. As in Primer or equivalent (winter months). Text to be used only as aids to the study of the objects.

(English and any other five subjects imperative.)

- ENGLISH:
 - (a) Same subjects as in previous grade but more advanced scholarship required. Composition as in Sykes, or an equivalent in the hands of the teacher, with special attention to the development of readiness and accuracy in written narrative, description, exposition and general correspondence.

(b) As in GRAMMAR: text book complete.

LATIN: As in Collar and Daniell's First Latin Book complete, and Casar's Invasion of Britain," by Welch and Duffield.

GREEK: As in White's First Greek Book, lessons I to end of L.

FRENCH: Bertenshaw's Grammar, Part I., and First Reader to page 56. GERMAN: As in Joynes-Meissner's Grammar, first 25 exercises, with Buchheim's Modern German Reader, Part I, first division only.

HISTORY: Review of British History as in "Outlines."

CHEMISTRY: Inorganic, as in Williams except Chapter XIII; or the cerresponding matter in Waddell.

ARITHMETIC: Text book completed.

ALGEBRA: As in Hall & Knight's Elementary to end of Chapter XXVII. GEOMETRY: Hall and Stevens' Euclid. Books I and II, with exercises

to end of page 85.

GRADE XI.

(English and any other five subjects imperative.)

1. English: Literature-Milton's L'Allegro, Il Penseroso, Comus and Lycidas; Macaulay's Essay on Milton. History of English literature as in Meiklejohn.

LATIN: Grammar and easy composition partly based on prose author 2.

read.

(a) Casar's De Bell. Gall. Book I (for 1909, Books II and III,) and (b) Vergil's Eneid, Book III (also for 1909), with grammatical and critical questions.

GREEK: Grammar and easy composition based partly on author read and White's First Greek Book completed. Xenophon's Anabasis, Book II (for

1909, Book III), with grammatical and critical questions. FRENCH: Bertenshaw's Grammar, Part II, and Souvestre's "Le Chev-

rier de Lorraine."

GERMAN: As in Joynes-Meissner, to lesson 44, with Buchheim's Modern German Reader, Part I, complete. Review of Grade X German.

4. HISTORY: General History as in Swinton.

Physics: As in Gage's Introduction to Physical Science, except chapters

V and VI for the year 1907-8. 6. PRACTICAL MATHEMATICS: As in Murray's Practical Mathematics, except chapter XI. Mensuration of surfaces and solids to be studied also as in Eaton or an equivalent.

ALGEBRA: As in Hall and Knight's Elementary Algebra, to end of

chapter XL, except chapter XXIX to end of XXIXd. 8. GEOMETRY: Hall and Stevens' Euclid, Books III and IV, with the typical and the easier exercises of Books I-IV.

SIR JOHN GORST ON TECHNICAL EDUCATION.

In the course of his address at Melbourne, in December last, Sir John Gorst, late Vice-President of the Board of Education, England, is reported as follows:

Technical Education:

This leads me to this, that in every country in the world, there is now a great rage for technical instruction. I believe that that rage prevails even in the State of Victoria. Everybody wants to be technically instructed. People are quite right in this desire, for we live in an age when the nation which will be at the head of the economic position will be the nation which produces the most intelligent, industrious and high-charactered set of work-people. The peoples of countries which lag behind will become the hewers of wood and the drawers of water for the more intelligent nations. But remember this. You cannot say, "We will have technical instruction in Victoria"—and begin your instruction to-morrow. There is a great deal of uphill work to be done before men and women are fit to receive technical instruction. Let me compare two places—Charlottenburg in Prussia and Manchester in England. Charlottenburg has the finest technical school in the world—excellent laboratories and lecture rooms, and the first men in Europe as teachers. To this school come every year 5000 young Germans who have been through primary and secondary schools; who come with a knowledge of chemistry and engineering and other things which fit them to receive higher instruction. Now look at Manchester, one of the most intelligent and go-ahead cities of the Empire. They have an institution in no way inferior—in equipment or in teaching—to Charlottenburg. But you can't get to Manchester 5000 students a year! You may open your doors and advertise your lectures, but where are the young men and women prepared for the instruction you have provided for them?

Improving Secondary Schools:

You must improve your secondary schools. Your young men and women must be prepared—by knowledge of literature, of languages of science—before they can become real good technical scholars. It is the duty of every State to guarantes the quality of the education given to its children. In a well-ordered State, no person should be permitted to dabble in the instruction of youth, any more than to dabble in medicine or in law. Though I have always protested against too much State interference this is one of the duties which the State has to perform.

SUMMER SCHOOL OF SCIENCE.

We have received from the Secretary of the Summer School of Science, Mr. J. D. Seaman, Charlottetown, P. E. I., a copy of the annual announcement of the School, which will be in session from the 2nd to the 19th of July.

The course of study of the School, which includes Botany, Chemistry, Geology, Drawing, Manual Training, English Literature, Physiology, Physics, Zoology and kindred subjects, is clearly outlined.

The advantages of Riverside, with its Consolidated School, in Albert Co., N.

B., where the session is to be held, are fully detailed.

Teachers, and others interested in education, will find in this announcement information of interest to them. A copy will be sent to any who apply to the Secretary for it.

Journal of Education.

Published at HALIFAX, NOVA SCOTIA, on the 10th day of May, 1907.

CONTENTS,

I	PAGE.
Council of Public Instruction, Inspectors, etc	. 3
Provincial Aid naid to Teachers in February	. 4
Regulations. — Provincial Examinations and Stations	. 23
" Licensing of Teachers	. 91
4 Arbor and Empire Days	. 30
9 Public School Course of Study	. აგ
" (Common School Grades	. 00
Condensed Contract	. 41
	. 40
The second of th	. 49
	. 92
at 1 Table 1 Table of School Children	,
The same of the Complete Company of the Company of	
The state of Taxialation from 1901 to 1907	. 102
Regulations, C. P. I., 1901 to 1907	. 110
Rural Science and School Gardens	. 111
Calendar, 1907	. 113
Ualendar, 1907 District School Commissioners	. 114
The state of the s	, 110
Second Schedule	. 115
March Annual Meetings	115
Special Statistics for 1907	. 116
Summer School of Science at Riverside	. 140