

Canadian Farm Affairs.

PROFITABLE WAYS OF FEEDING

High class stock keeping is as necessary to high-class farming as the latter is to the former, and either is as dependent upon the other as two distinct branches of one business can possibly be. In every case they must go hand in hand in order to bring either to the highest point of successful management.

No line of stock can be economically fed under perfect conditions except through the products of the farm upon which they are kept, while stock must be the medium through which the crops grown on the farm find the most satisfactory market. The practice of feeding stock through commercial channels, such as purchased corn and mill feed, may be made to pay where steers are being finished for the block, and the product in beef selling at good prices. The same claim can be made where cows are kept to supply milk or cream for large cities. But in either of the foregoing it is necessary that the farm should supply the bulky feed required and the manure produced returned to the land to make it as highly productive as possible.

What is considered stock keeping in the truest sense of the word is where the stock on the farm is bred on the farm and finished there or sold to be finished elsewhere, according to the surroundings or the capacity of the farm. In either of the foregoing the work must be laid out with a view of economically and expeditiously feeding as many animals as is possible to a given acreage. On too many farms stock is kept merely as a by-product, either to consume what would otherwise be wasted or more easily work down straw into a slightly better article than that rotted alone. On such farms the stock is not likely to be of a very high class, nor are such bulky foods as straw and corn fodder likely to bring much profit.

Finishing a bunch of steers for the block is usually the work of a few months, depending upon their condition during the time kept at high pressure or on full feed, hence they can stand more highly concentrated food and food that will heat the blood will not necessarily injure them to any extent. With the young animal the case is entirely different. Care must be exercised to build up the health during this stage, and more skill is required if the best results are to be the aim. The ration will have to be more bulky and at the same time highly nutritious, easy of assimilation and at the same time sufficiently varied to supply growth of bone, blood, flesh, etc. A steady daily growth must be attained. For this there is no food that equals roots. They are at once the safest and surest, and by no other means can as quick a growth be attained, nor will other food bring young animals into as good condition for feeding, neither will any ration without them keep the young animals advancing in growth and flesh, without the drawbacks that will occasionally

follow the feeding of other foods, such as grain, etc.—[Frank R. Shore, Middlesex Co., Ont.]

ONTARIO DAIRY PRODUCTS.

The recent marvelous growth of the dairy industry in Ontario is apparent from a glance at the statistics compiled by the provincial bureau of industries. The value of the cheese product has increased steadily each year from \$7,700,000 in '91 to \$9,500,000 in '94, 11,700,000 in '97 and 10,300,000 in '98. The number of patrons supplying cheese factories likewise increased from 45,000 in '91 to 65,100 in '98. This marvelous growth has been made in the face of a steady decline in the value of cheese to the amount of 1 1/2c p lb since '92. Of the \$10,250,000, the value of the cheese output, patrons received \$4,417,000 for milk or an average of 61 1/2c p 100 lbs milk.

Equally as surprising is the growth of the creamery or butter industry. The value of creamery made butter in '93 was \$574,000, '95 \$683,000, '96 \$1,101,000, '97 \$1,404,000, '98 \$1,632,000. The popularity of the creamery movement is shown by the yearly increase in the number of patrons as follows: '93 7900, '94 \$300, '95 9700, '96 12,200, '97 18,900, '98 22,700. As with cheese, butter shows a steady decrease in value per lb, from 21 1/2c in '93 to 18 1/2c in '98. While the value of the butter product was \$1,632,000 in '98, patrons were paid 1,234,000 for milk for making it. Details as to the growth of the dairy industry of the province are shown herewith:

Year	Milk cows	Factories	Cheese Milk used (Millions pounds)	Butter made (Millions pounds)	Creameries
1898	965,000	1187	1374	128	262
1897	940,200	1161	1456	137	214
1896	920,300	1147	1108	104	170
1895	888,200	1164	1174	109	135
1894	834,200	1011	1023	97	115
1893	803,600	897	912	86	74
1892	787,500	856	864	81	
1891	773,200	838	865	82	

Growing Extra Large Tomatoes—If plants are wanted larger and more forward than ordinary boxed plants, order from a potter pans 3 in deep and 3 in wide at the top and 6 in wide at the bottom, inside measurement. Lift the plants with a larger amount of soil than when boxing them, and set one plant in each pan, fill with very rich soil to within 1/2 in of being full when firmly pressed down. Plants so treated can be grown to any size desired. I have often grown them 15 in high and branched out 18 in wide, and loaded with 8 or 10 fair-sized tomatoes. By carefully turning them out of the pans and planting them in the open ground they will grow right along and ripen their fruit very early. As soon as the large plants show signs of falling for want of food, water them with liquid manure.—[S. H. Mitchell, Ont.]

Pigs with Rheumatism should be purged with 2 to 3 oz epsom salts, according to size of the animal. Give also 10 to 20 grs nux vomica three times daily to overcome paralysis of the muscular coats of the stomach and intestines. Give in the food.—[Dr J. H. Reed, Ont.]

French-Canadian Cattle have been described and illustrated interestingly by Dr J. A. Couture of Quebec. These are a very popular breed of cattle and are generally kept on the farms of the Province of Quebec.

Grange Installation—One of the thoroughly live granges of the 1000 that have been organized in the Dominion is Apple Grove of Southold township, now nearly 25 yrs old. Last month the Dominion master, Jabel Robinson of Middlemarch, installed the officers as follows: Master, Frank Hunt of St Thomas; lecturer, W. Webb; secretary, James Fletcher of Middlemarch. The newly installed master gave an address on the work of the grange, and pointed out the remarkable advance it had made in the United States the past year. A number of farmers' organizations had sprung up in that country, professing to do great things for farmers, but they had all disappeared, and the old grange had arisen from its ashes and had the promise of a great future. The farmers of Canada would again gather to its fold because there

must be some organization in which the farmers could take united action to protect their interests. The farmers had deserted the grange at the instigation of men who boomed other orders to boost themselves into position and power. The only hope of the farmers was to reopen the grange halls and improve the grange as the lessons of the past had taught.

The Wolf River Apple resembles the Emperor Alexander somewhat and is said to be a seedling of that variety. The fruit is hardly as large as the Alexander, but is of little better quality. The color is also somewhat darker. The fruit is large, rather roundish oblate, rather whitish yellow skin shaded with light and lark red and crimson where fully exposed to the sun. The quality is fairly good. The season from Oct to Jan and even later in northern sections. The tree is vigorous and hardy, does not bear as early as the Alexander, and gives good crops on alternate years.—[W. S. Blair, N S School of Horticulture.]

Fertilizing Mangels—The past 3 yrs 27 tests have been made of fertilizers for mangels, at the Ont agricultural college, Guelph. Unfertilized land averaged 19 1/2 tons p a and that treated with nitrate of soda 24 1/2 tons. The extra mangels cost, in money spent for fertilizers, a little over 73c p ton, pretty good returns for the money.

Hardy Apples Along the S Lawrence—For summer, Yellow Trans parent, Duchess, Red Astrachan; early winter, Fameuse, Scarlet Pippin, McIntosh and Wealthy; late winter Scott's Winter, Salome, Seek, Golden Russet, Yellow Belleville, Ontario, Tal man Sweet and Canada Red.—[W. A. Whitney, Ont.]

The San Jose Scale is with us to stay. The kerosene-water emulsion, one part oil to five of water in summer and 1 to 4 in winter, is a specific for its destruction, says Prof Bailey.

The Cow's Tail doesn't bother a certain Holstein dairyman, while milking, that I recently visited. Stepping in his stables I noticed that just out of reach of my hat, about 7 ft from the floor, above the cow's hips, a No 3 wire, drawn tight, ran the whole length of the stable. On this, in the rear of each stall, was a small ring or a harness clasp, from which hung a stout cord attached at its lower end to the cow's tail at about the point where the brush or long hair begins. This cord was long enough to allow the animal to scratch with comfort. The device answers the purpose, but the sight of a stable full of cows with pompadour tails is sure to provoke a smile.—[M. G. Kains.]

The first thing in the way of attention a young lamb wants is to see that the ewe's teats are free from all obstruction. Clip the wool from the udder and start the milk flow with the fingers. If a young ewe refuses the lamb to suck, put her in a narrow lath stanchion and hold the lamb; a few trials will be enough and the ewe will take her lamb.

A large majority of feeders make a mistake in holding fat cattle that are ready for market. A man is feeding 100 to 150 head of steers and there are

1/2 or 2-3 of them fat that could be shipped at any time. Very few will ship them out as they are not all ready, and they hold on to the good ones until the entire bunch is ready. Fat cattle should be shipped as fast as ready. By doing so the risk is divided. The cattle unsold have a better chance to improve, and there is more profit to be made in this way on account of the small margin there is in keeping matured steers, as this class of cattle make little gain compared with half fat steers.

The south-central part of Manitoba, including 12 counties, had 3148 a in potatoes last year and produced an average yield of 194 bu p a, or 610,700 bu. We doubt if any other section, except around Greeley, Col., can show such a record.

While the increase in the number of hogs more than 1 yr old kept in Ontario the past 6 yrs is only about 34,000, statistics as to the number under one year show an enormous increase, from 765,659 in 1892 to 1,376,000 in '99, or almost twice as many. Somebody must be eating pig!

Remember We P-y agents for Farm and Home a liberal cash commission instead of a premium if preferred. If you have a little spare time and would employ it profitably, write us to-day for our special cash terms.

A WONDERFUL INCUBATOR business has been done by the Petaluma Incubator Co of Petaluma, Cal, in their export as well as domestic trade. One Australian firm has bought 700 incubators. While this company has made the largest foreign shipment of any company in the U S, its home trade continues to increase rapidly. Jobbing houses in every leading commercial center handle Petaluma incubators. Write for catalog and name of nearest dealer; also please mention F & H.

DIVINE HEALING
CURES ANY DISEASE

Francis Truth, Divine Healer

THE ONLY
CURE FOR
DISEASE!The Divine
Healer Free."A Work Done and
Wonderful""Wherever he has
been, the Divine
Healer has
done his work."

The whole world is astounded and bewildered at the miraculous cures of disease daily made by Francis Truth, the Great Divine Healer of Boston. He is the most wonderful and successful Divine Healer of modern times. Any and all diseases cured without drugs, medicine or the surgeon's knife, at any distance, by Divine Power. He will cure you absolutely free a book fully explaining his Divine Power. The Divine Healer is also sent free to all who are sick and will write a letter telling about their disease. Divine Power cures when everything else fails. "The hand of God is upon all them that seek His face." It is permanently curing by Divine Power Diseases which no medicine, attack and suffering could cure. Mr. Truth's free book is sent free to you on request. The Divine Healer is a liberal and kind-hearted man, he has his great Power, and all sufferers should write him for free advice. He will gladly write you special instructions free and send his wonderful book free. Address, FRANCIS TRUTH, DIVINE HEALER, 52 Bedford Square, Boston, Mass.

M. M. S. POULTRY FENCING
Strongest and Best.
Half cost of setting, freight paid. Write to-day.
JAMES S. CASE, Box 21, Colchester, Conn.

.... OUR NEW

Premium List.

Our Complete Premium List for 1900-'00 is now ready and will be sent free to any address in the United States or Canada, on application.

It is handsomely illustrated and contains upwards of 300 useful and valuable premiums, and some of the greatest and most astonishing offers ever made by responsible publishers.

Now is the time to get up clubs, and by doing a little work for Farm and Home you may secure one or more of the many good things offered, free of cost.

Sample copies and everything necessary to a successful canvass, sent free on request.

Address
FARM AND HOME,
Springfield, Mass., or Chicago, Ill.

\$1000 IN GOLD FREE

FOR
BRAINY
PEOPLEFOR
BRAINY
PEOPLE

Each one of the names listed below is the name of a great city in the United States. Then is a brand new puzzle and can be solved with a little study, as follows: There are twenty-six letters in the alphabet, and we have used squares in spelling the cities listed below. You are to number 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.