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k, or ed as baid of beardness, with light brown, smooth chaff, and velvet chaff. Another, although less prevalent, type is the deep brown chaff wheat which is also beardless. Not infrequently does one find the bearded types so much in disfavor, but in surprising boldness they obtain on both white chaff and brown chaff. These bearded forms have become the subject of much controversy among farmers owing to the uncertainty of their origin. Club wheats are also numerous. It is a curious thing that this short, blocky type, so far re-moved in general outward characteristics should be found in such variety among our common wheats. But one occasion-ally sees bearded and bald, long head and short head, brown chaff and white chaff types. Surely such a mixture is not desirable from the point of view of the grain grower, although a paradise for the

T IS not uncommon in one's travels to see fields of wheat in Saskatchewan

types. The most common type is describ-

ed as bald or beardless, with light brown,

which reveal a great multiplicity of

December 25, 1915

plant breeder. In order, however, that we may the better understand this polyglot con-dition so often seen in Saskatchewan wheats it is necessary to turn back the pages of wheat history in Canada. For indeed wheat, like the many people who inhabit this land, has a story of its coming, its beginnings and its settlement. And it, like them, is today still endeavoring to adapt itself to these still new and foreign conditions.

History tells us that among the first wheat settlers to take up their abode in Canada was one which originated in Canada was one which originated in Russia along the southern shore of the Baltic Sea. While spending the winter of 1840 in Glasgow its bright appearance and plump form attracted the attention of Mr. Struthers, a clerk in a grain store in that city. Being on the look-out for wheat immigrants for Canada, Mr. Struthers immediately took occasion to Struthers immediately took occasion to recommend this hardy looking wheat to go to Canada. At this time Mr. Struthers was in touch with Mr. David recommend this hardy looking wheat to go to Canada. At this time Mr. Struthers was in touch with Mr. David Fife, a farmer in Eastern Ontario, who was especially desirous of encouraging a large immigration of new and heads was especially destrous of encouraging a large immigration of new and hardy wheats. During the following summer this wheat took passage for Canada and reached Mr. Fife early in the fall. These were never heard of again, others gave an excellent account of themselves. Thence forward it took the name of Fife and later because of its color it was christened Red Fife to distinguish it from With Provide Red Fife to distinguish it from White Fife, a wheat similar in qualities. For many years Red Fife battled against odds in this new land and finally succeeded in adapting itself to a wide scope of country, extending from Western Ontario through Quebec Province, even down to the sea. And yet despite this wide settlement in Eastern Canada, Red Fife found that the humid climate did not favor its highest development. Thus willingly did he accept the suggestion of Dr. William Saunders, then Director of ment was a heavy immigration of Ameri-Experimental Farms, to migrate to Western Canada. Settling first in Mani- wheats were able to withstand this northtoba and later in Saskatchewan, Fife found that while the climate seemed more to his liking because of its dryness, it nevertheless was too severe. In these days, even during the midsummer, frosts frequently occurred to interfere with the only one to locate permanently. Soon to his liking because of its dryness, it to come across the border the Blue Stem requently occurred to interfere with the only one to locate permanently. Soon proper development and maturity of this all traces of the others had disappeared. days, Fife stood firmly by his resolution and more grain growers migrated to the ment, kept in close touch with them and tilled and through the instrumentality foresight and kind guidance was largely thick settlement was hampered owing to won the admiration and affection of the heavier soils in the open plain country, and west as old homes became overtaxed; Red Fife was brought to a definite realiz- newer generation which in surprising benefits of this wonderful settler. Ir was duting these stirring days for



By Professor G. H. Cutler, Assistant Professor of Field Husbandry, University of Saskatchewan

Sask. Wheat and Its Improvement

THE SATURDAY PRESS AND PRAIRIE FARM

Fife (the early and middle eighties and early nineties) that a great influx of wheat settlers took place. Russia continued to contribute of her best, and although contrary to Canadian immigration laws,

to survive and carry on the traditions of the older families the names of Preston, Stanley, Alpha, Huron, Percy, Captor, Admiral, Beauty, Progress, Dawn, Crown, Advance, Vernon, Blenheim, Dufferin, Advance, Vernon, Blenheim, Dufferin, Angus, Dawson, Fraser, Crawford, Jordan, Laurel, Plumper, Blair, Mason, Cartier, Bishop, Ebert, Harold, Essex, Countess, Rideau, Campbell, Weldon, Clyde, Byron, Benton, Cassel, Early Riga, Nowal, Hastings, Chester later renamed Chelsea, Allan Marcuis Prelude and many others Allan, Marquis, Prelude and many others. Surely nature blesses with a bountiful hand. And yet while there were many descendants left, very few of them seemed to possess the love of adventure or the qualities of adaptation to enable them Consequently little was heard of the great majority of these wheats. Of those which were possessed of the spirit of their grand sires the names of Preston, Stanley, Percy, Chelsea, Laurel, Alpha, Bishop Marquis and others will live long in the memories of those who read this article. Such wheats have meant the very existence of Western Canada. Different from Red Fife they could fit into a wider range of conditions and during their early settlement it seemed almost as though the northern boundary of wheat production in Western Canada would be extended far north into colder regions even beyond the Peace River country, where but a

contrary to Canadian immigration laws, India poured forth from her very strongest and noblest blood. The majority of these new settlers heard first of Canada acme of perfection. Born of Indian and Russian parentage, viz., Hard Red Cal-cutta and Red Fife respectively, he seemed capable of lifting the horizon wherever he chose to settle. He inherited in no small degree the hardiness and strong

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Concluded on Page Eighteen

Indian Red Calcutta, Indian Club Calcutta and Gehun. Although the growing season was cut short by late spring, and early fall, frosts, it suited their normal development infinitely better than it did many of the older settlers, which by this time had considerably multiplied. Ladoga too, found that even where Red Fife could not survive comfortably her health was little interfered with.

can wheats." Unfortunately few of these ern climate since they were accustomed to a much longer season. Of the many

This era, outstanding for its remarkable to make good, and the thought of better immigration was followed by one just as remarkable for its material development. Dr. Saunders, fully realizing his respondecision. For just at this period more sibility to these wheats for their settle-West and North; new lands became broken throughout all their struggles. His keen of the Experimental Farms Red Fife exten- responsible for the springing up of many ded his domains far beyond his most sanguine expectations. It seemed for a time that soon the whole of Western Canada would enjoy his benefits. These hopes however were not to be realised dian princesses became the brides of hopes, however, were not to be realised, dian princesses became the brides of for while wide settlement was possible, Russian princes, and Russian princesses climatic barriers. In certain parts, more Indian and American suitors. Wide especially the scrubby areas, and as well settlement continued apace, to the north climatic changes some seasons spoke the early inhabitants in the meantime, one in language so plain but emphatic that by one dropped out, giving place to a ation of his serious limitations. Nature numbers seemed fitter to serve a wider however, was not to be denied the fullest field of usefulness than the majority of the older settlers.

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