

YIELD IN GRAMS PER ROW OF 16 FT

	Wov No	Morden	Winnipeg	Brandon	Saskatoon	Rosthern	Indian Head	Average
Marquis, M. A. 13239.....	1	239.8	312.3	125.0	549.4	276.5	190.4	282.23
Marquis x Kanred, 11-18-8.....	2	291.0	240.2	139.0	798.3	518.8	191.0	363.05
Marquis x Kanred, 11-18-10.....	3	260.2	195.3	198.2	651.3	391.8	273.4	328.36
Marquis x Kanred, 11-19-7.....	4	316.4	214.0	153.7	598.2	396.8	202.2	313.55
Marquis x Kanred, 11-15-57.....	5	302.3	141.5	178.2	601.0	313.8	174.7	285.25
Marquis x Kanred, 11-15-58.....	6	213.9	101.8	228.5	612.2	348.8	281.7	297.81
Marquis x Kanred, B2-5.....	7	280.5	175.0	184.0	665.8	435.8	145.5	314.43
Marquis x Kanred, B8-11.....	8	279.0	179.3	142.0	678.7	453.6	450.8	363.90
Kota Natural Cross, 11-19-4.....	9	278.2	153.3	221.3	465.2	359.8	238.3	286.01
Kota, 255-M.....	10	345.2	207.0	233.2	694.2	308.8	197.5	330.98
Kota, 30f.....	11	332.0	216.8	265.5	717.3	353.3	190.9	345.96
Marquis x Iumillo, 11-15-43.....	12	350.7	242.0	203.5	711.2	339.3	165.5	335.36
Matquis x Iumillo, 11-15-44.....	13	324.0	225.5	207.0	740.2	370.8	375.9	373.90
Marquis x Iumillo, 11-15-51.....	14	299.7	262.0	266.7	729.2	439.8	203.2	366.77
Marquis x Iumillo, 11-15-55.....	15	298.3	232.0	294.0	636.2	414.2	264.5	339.86
Marquis x Iumillo, 11-15-59.....	16	284.7	207.0	266.0	625.2	370.5	192.9	324.38
Marquis, Ottawa 15.....	17	198.0	88.5	617.0	360.5	301.8	311.57

The yields there represent, as far as single rows are significant, the yields under dry soil conditions and very severe rust prevalence.

It will be seen from the tables that practically all the rows out-yielded our ordinary Marquis, and though yields from single rows are not of much value, there are at least indications that the varieties tested are satisfactory from the standpoint of yield. Should the Marquis x Iumillo hybrids prove to have the bread-making qualities of Marquis, they should be very valuable wheats in districts where rust is prevalent. It seems very desirable that further tests be made with these varieties.

The average yield of the Marquis samples was 296 grams, about 30 grams to the ounce. The crosses, Marquis and Iumillo, gave an average of 348 grams. The highest average yield was obtained by these crosses, and not in a single case has there been obtained a lower yield than from the ordinary Marquis wheat. As far as yield is concerned we have a decided promise, in addition to remarkable resistance to rust.

By Mr. Gould:

Q. That causes me to wonder how you arrive at your computation of the loss that has been sustained in Canada, of \$94,000,000 annually. Is this the method of your computation, a comparison between Marquis wheat and Marquis and Iumillo?—A. The computation of losses is generally given by the returns of the yield per acre in districts affected by rust, as compared with the yield per acre in districts where rust is absent. At first we found it difficult to get reliable figures, but in the Red River Valley almost every year we are able to make most reliable determinations of losses due to rust. The same applies to smut. In this case it is far more simple to actually determine the loss.