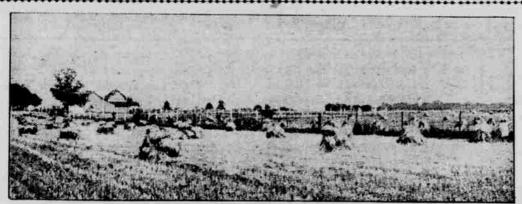
Economy in Using European Type of Grain Drill



BY WILLIAM PRITCHETT.

HE manner of seeding in Europe should be a very profitable subject for the American farmer to consider at this time; very little has been said in the agricultural papers been said in the agricultural papers about seeding wheat, rye and other perfectly straight that not an inch to tan and takes just as much grains in the fields of Europe, where of land is allowed to be wasted and no knows that it takes just as much strains in the fields of Europe, where of land is allowed to be wasted and no knows that it takes just as much strains in the fields of Europe, where of land is allowed to be wasted and no knows that it takes just as much strength out of the ground to protect the mean operate the man duce weeds as it does to produce the mean operate the man simply looks grain.

continually guide the machine by the fore-carriage in front (called vordl-down baking a surface crust and to karre) and this fore-carriage has a rapidly take up the surface moisture, long lever that extends clear behind especially in a hot and dry year; the seed hopper and by using this these wide spaces between the seed long lever the machine is guided so rows allow much room for weed seed

rows which allow the sun to come to fall and every practical farmer knows that it takes just as much strength out of the ground to pro-

bushels of wheat per acre and sometimes as many as 80 bushels per acre have been claimed.

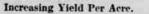
Land, of course, is very valuable in the farming sections and the price of labor is much cheaper than we can realize or understand here in America, so that labor perhaps might be wasted in Europe but the greatest possible care is to avoid the waste of the land.

The European land owner or renter uses a grain drill putting in the second man simply looks grain.

Where three men operate the maduce weeds as it does to produce to hope and simply looks grain.

Another feature of importance to hopper and then it is the exclusive consider in seeding grain is the duty of the third man to simply width of the seed furrow made by guide the machine and instead of the the furrow openers because if the long lever extending behind the hopsed furrow is very narrow it simply with of the seed furrow is very narrow it simply turned to allow the third man to of another, killing both stalks as possible care is to avoid the waste of the land.

The European land owner or renter are uses a grain drill putting in the fore carriage to see that the machine that "not more than 50 per cent to 75 per cent of the seed plants that sprout in the narrow seed rows of a sprout in the narrow seed rows of a grain drill ever mature."



Besides the importance of producing much more grain per acre with the seed rows closer together there is also the very great advantage that in a dry year when clover is sown with the wheat or the oats the closer seed rows very favorably protect the clover and it has been proven repeatedly that a good stand of clover is obtained under drouth conditions with the narrow seed rows when otherwise with the seed rows six inches or seven inches apart, the clover has been entirely killed out by

I succeeded in buying a three-inch American grain drill in January, 1912, and have now used this machine for three years, putting the grain drill rows only three inches apart and I have never failed to produce at least 10 bushels of wheat per acre more than any of my neighbors seeding with the rows made six inches or seven inches apart, and my

American apples sold in Sweden are known as California, oregon and HOW TO GET 320 American apples.

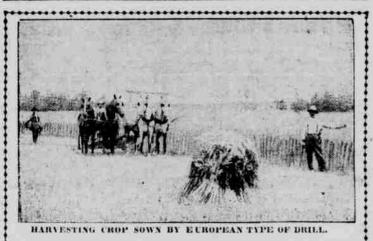
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you simply could not give a European farmer a grain drill making the rows more than 3 ½ inches apart.

European Grain Drills.

Again, if you would investigate the type of grain drill used in Europe it will be seen that they use two men a European grain drill; one man do-ing the driving of the oxen, camels ican manner of drilling the grain is or horses and then if two men are op-found to be really better than broad-erating the machine the second man casting, but it permits a wonderful sees to it that the hopper is kept waste of land; the seed is not prop-properly filled with seed and that erly distributed; it allows a very the seed is kept flowing steadily and great waste of moisture because of accurately. Besides it is his duty to the bare spaces between the seed

rows often as close as 2 ½ inches is driven absolutely straight so that apart, never more than 3 inches and not an inch of the land is wasted.

Wasteful American Method.

Let us make comparison of this oats likewise correspondingly European system with our manner of creased over the wider seed rows. seeding in America; the American farmer uses a grain drill with the rows never closer together than six inches and more generally in the corn and very often three men to operate belt states it is seven inches or some-a European grain drill; one man do-times eight inches apart. This Amer-

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R. C. FISKE

CROP REPORT OF OREGON AND UNITED STATES.

 $F^{\rm INAL}$ estimate of acreage production and price December 1, in the state, and production and price in the United States (acreage and production in thousands, i. c., 000 omitted.)

	1000	-Oregon-		United States.	
	Acre-	Produc-	Price	Produc-	Price
Crops-	age.	tion.	Dec. 1.	tion.	
Corn. 1914		660	82	2,672,804	63.7
Corn. 1913		598	70	2.446.988	00.1
		16.604	7.60		69.1
Wheat, 1914			102	891,017	98.6
Wheat, 1913		15.717	75	763,380	79.9
Oats, 1914		12,740	40	1,141,060	43.8
Oats, 1913	360	15,228	38	1,121,763	39.3
Barley, 1914	122	3,660	61	194.953	54.3
Barley, 1913	120	4,200	55	178.189	53.7
Rye, 1914		336	100	42 779	86.5
Rye. 1913		350	75	41 291	63.4
Buckwheat, 1914				16 291	74.4
Buckwheat, 1913			100	13.823	75.5
				15.559	10.0
Flaxseed, 1914		******	23 K		1,26
Flaxseed, 1913		*****	990	17,853	1.20
Rice, 1914		(9.814)6.99	***	23,649	92.4
Rice, 1913		* * * * * * *	* * *	25,744	85.8
Potatoes, 1914		4.753	60	495,921	48.9
Potatoes, 1913	50	6,750	58	331,525	68.7
Sweet Potatoes, 1914				56,574	73.0
Sweet Potatoes, 1913		44444		59.057	72.6
Hay, 1914		1,716	9,20	70.071	11.12
Hay, 1913		1.732	9.09	64,116	19.43
Tobacco, 1914			100	1.034.679	9.8
Tobacco, 1913				938,734	10.8
			500	15,965	6.8
Cotton, 1914		10.5.0.0.0.0.0		14,156	14.0
Cotton, 1913		*****	50.0	14,130	12.3
Sugar Beets, 1914		******	400	5,147	5.43
Sugar Beets, 1913	KINNESSES.	5.5.5.5.5.5	418141	5,659	5.69

Quantitles of hay and sugar beets in tons; tobacco in pounds; cotton in bales; other products in bushels. Prices for hay and beets in dollars per ton; cotton and tobacco, cents per pound; flaxseed, dollars per bushel, other products, cents per bushel.)

wheat sown this Fall in the state 686,000 acres, compared with 635,000 acres last year; condition 93 per cent normal, compared with ten-year average of 96. Similarly, in the United States, 41,200,000 acres, compared with 27,100,000 acres sown last year; condition, 88.2 per cent, compared with 90.3, the ten-year

Double the Wheat and Oat Crops

Money must be made by better farming; it is common sense to see grain drilled only 3 inches apart, not 6 inches or 7 inches between rowsmeans much better seed distribution, better surface covering with crop, less wasted land, better saving of moisture, crowding out the weeds and many other advantages; one maker of 3-inch drills guarantees 25% or better increase or no pay for the machines. Fetzer & Co., of Springfield, Ill., claim in a dry year the yield has been increased four times more per acre, besides making a good stand of clover where the clover with wheat was dried out with 7-inch rows. Write today for the proof and guarantee and free printed matter.