

the arpent, equal to about 235 to the imperial acre: a good yield anywhere.

Mangels and carrots.—A very interesting feature is presented in a field close to the place where we are writing. The crop is composed of mangels and carrots, rows, both of which roots are close together. We do not hesitate to say that each of the contiguous rows of these plants is heavier by at least 25% than any other in the piece.

Many years ago, a very intelligent man, a Mr. Gray, from Northumberland, Eng., became land-steward to the Duke of Beaufort, in Glo'stershire. The idea struck him that as carrots and mangels do not obtain their food from the same part of the soil, the one being, comparatively, a surface-feeder and the other plunging down into the sub-soil for its nourishment; the leaves of the one being wide-spreading and lofty, while the leaves of the other are, trilling and cling closely to the ground; the idea struck him, we say, that if the seed of each were sown in alternating rows, the yield might possibly be greatly increased. The experiment was carried out, on a small scale, of course, and the upshot was that there was a greater weight of combined carrots and mangels on the experiment-plot, at the rate of several tons to the acre, than on two adjoining plots of mangels and carrots sown separately as usual, the same number of rows being taken in both cases. To the best of our recollection, the difference was 7½ tons to the acre, but as we quote from memory; a pretty accurate one by the way; we cannot bind ourselves to that. The account was printed in one of the earlier number of the Royal Agricultural Society of England's Journals, somewhere about 1848. We were very glad, indeed, to see Mr. Gray's experiment so clearly proved to be founded on correct reasoning, and of universal and not of local application.

Crops in England.—The following are abstracts of 680 reports from the different counties of England and Scotland of the crops of the year 1898. It will be seen that the wheat yield is very much over an average, 64 7-10 of the returns representing it as over an average, and only 5 7-10 as under an average. The hay-crop in the Island is, as it is here, very large indeed, and got in in almost perfect order. Turnips, including swedes, are rather below the average, but to make up for the deficit in those crops, a great many acres of quick-growing turnips and rape will

be sown on the cleared stubbles. On the whole, there will be an abundance of food for the stock during next winter.

GRAIN CROPS, 1898.

	Wheat.	Barley.	Oats.	Beans.	Peas.
Over average ..	3.3	245	226	128	68
Average ..	180	273	216	139	151
Under average..	35	53	230	74	85
Totals.....	608	575	672	341	304

PERCENTAGES, 1898.

Over average ..	64.7	42.5	33.6	37.5	22.3
Average ..	29.6	47.4	32.2	40.8	49.7
Under average..	5.7	10.1	34.2	21.7	28.0
Totals.....	100	100	100	100	100

HAY, POTATOES, AND ROOTS, 1898.

	Hay.	Potatoes.	Turnips.	Mangels.
Over average..	586	208	96	168
Average.....	74	255	299	256
Under average.	23	137	300	138
Totals.....	683	600	695	502

PERCENTAGES, 1898.

Over average..	85.8	34.7	15.1	29.9
Average	10.8	42.5	37.6	45.5
Under average.	3.4	22.8	47.3	24.6
Totals.....	100	100	100	100

In the next set of tables it will be seen that the reports go to prove that this year's wheat-crop is superior to any grown in the last decade, the only one approaching it being the crop of 1896. It appears, that the average yield this year will not be less than 33 bushels of wheat to the imperial acre—28 bushels to the arpent.

PERCENTAGES.

Years.	WHEAT.			BARLEY.		
	Over.	Average.	Under.	Over.	Average.	Under
1887	52.3	41.3	6.4	4.8	41.0	54.2
1888	7.0	21.5	71.5	34.8	44.1	21.1
1889	48.6	42.7	8.7	25.5	50.0	24.4
1890	17.3	52.6	30.1	37.4	53.4	9.5
1891	23.2	57.4	19.4	31.5	52.7	15.8
1892	10.8	38.1	51.1	50.1	42.3	7.5
1893	8.5	26.0	65.5	11.1	24.0	64.9
1894	41.2	45.5	13.3	61.5	32.3	6.2
1895	2.3	22.3	75.4	9.6	34.8	55.6
1896	61.3	33.5	5.2	23.2	29.6	47.2
1897	18.1	43.6	38.3	21.6	55.6	22.8
1898	64.7	29.6	5.7	42.5	47.4	10.1

Years.	OATS.			BEANS.		
	Over.	Average.	Under.	Over.	Average.	Under
1887	2.2	17.0	80.8	0.0	13.0	87.0
1888	30.0	40.0	30.0	25.4	31.1	43.5
1889	27.5	46.0	26.5	21.6	33.6	44.8
1890	44.0	49.0	7.0	56.3	36.1	7.6
1891	14.0	36.3	49.7	11.2	46.6	42.3
1892	15.0	33.3	51.7	5.4	36.1	58.5
1893	9.7	19.7	70.6	3.6	9.6	86.8
1894	57.2	30.6	12.2	39.4	35.7	24.9
1895	4.1	20.1	75.8	3.6	20.5	75.9
1896	11.4	15.6	73.0	11.2	33.2	54.6
1897	26.9	37.7	35.4	31.6	47.3	21.1
1898	33.6	32.2	34.2	37.5	40.8	21.7