

manures. In 1887 we had a mean temperature for June, July, and August under 57 deg., and a rainfall of 3½ inches. In 1889 the mean heat was some 4 deg. higher, and the rainfall about 10½ inches, or just three times that of 1887.

The Dyson's Wood experiment for 1888 are very instructive, as showing the effect of the manures in a wet season on grass land. The most striking points may be briefly referred to. To make the distinction clearer, we will take the most soluble manures first, and compare them with the rest. The increase or decrease refers to the gain or loss per acre over the unmanured plots.

SOLUBLE MANURES, 1888 (WET SUMMER).

	Grass. cwt.	Hay. cwt.	Cost. s. d.
1½ nitrate soda, decrease.....	16	equal	16 3
3 cwt. super, &c., "	—	decrease	15 9
3 cwt. dissolved bones, increase.....	4½	increase	8¼

LESS SOLUBLE MANURES.

1 cwt. sulphate ammonia, increase.....	26½	9	14 0
3 cwt. Peru guano "	28½	5½	21 9
4 cwt. slag, &c. "	50	8	15 6
10 cwt. gypsum "	25	4¼	15 0
10 tons farm dung "	81	21½	60 0

SEASON 1887 (DRY.)

The results here are widely different, but are given in hay only. As the salient points of the experiment are confirmed by others, viz., Woburn, Norfolk, Essex, and other districts, it will not be necessary to do more than quote roughly the result of the Dyson's Wood trials once more.

INCREASE, &c., OVER MANURE AND PLOTS

	Increase cwt. qr.	Profit. per acre.
1. Season 1887.		
{ 1. Nitrate soda, &c.	18 2	2 16 6
{ 1. Dissolved bones	18 2	2 16 6
3. Decorticated cotton-cake.....	13 0	0 17 0
4. Raw bone meal.....	12 3	1 13 9
5. Farm dung.....	11 1	—
6. Peru, guano.....	10 2	1 0 3
7. Boiled bones.....	9 0	0 18 0
8. Slag and kainit.....	7 3	1 0 6
9. Gypsum.....	2 1	—

The results of sulphate of ammonia and superphosphate are not given here, but there is a little doubt that the 1888 results would have been reversed in a dry season. These trials are very useful to farmers in general, and help to prove also that the best manures for the crop are not always the cheapest. Farm dung is a most costly article for instance, and yet its effect varies enormously with the season, and no doubt vast sums are lost by its application during dry seasons, especially when applied late. The same remark cannot hold good with regard to any artificial manures, the cost being so much less, and the celerity of application being a great feature of success. Yet we must have farm manure as long as we keep live stock and grow bulky crops for their maintenance, though some may not agree with this, and vote it a nuisance. So much dead weight with a nucleus of fertilising matter. It has made a brave stand against scientific farming and artificials.

A. F. P., in *Eng. Ag. Gazette.*

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