

Its protein compounds are thus nearly equal to peas and beans—though the opinion formerly was that it was chiefly valuable in laying on fat. The proportion of oil is greater than in any of the grains.

Oil Cake leaves 6 per cent of Ash—the composition as follows :

	<i>Eng. linseed cake.</i>	<i>American linseed cake.</i>
Alkaline salts .....	31.55	38.20
Phosphate of lime and magnesia...	47.67	56.26
Lime .....	4.88	1.24
Magnesia .....	1.57	trace.
Silica .....	10.81	4.04
Sand .....	3.86	
	<hr/> 100.34	<hr/> 99.74

The American cake appears thus of pure quality,—the phosphate larger in quantity, and twice as valuable for making bone as oats or barley. The manure derived from its feeding is richer than from any kind of grain—containing a larger proportion of surplus phosphate, beyond that supply required by the animal, and of oil likewise. Johnston has prepared a mixture which could be manufactured to contain all the valuable ingredients of oil cake. It is as follows :

	<i>lbs.</i>	The constituents of which are in every 100 lbs.	<i>lbs.</i>
Bruised Linseed .....	40	Starch .....	40
Bean Meal .....	60	Protein Compounds .....	27
Bean meal .....	4	Fat .....	11
Ground Bones .....		Saline matter .....	7
	<hr/> 104	Water and Husk .....	15
			<hr/> 100

When our climate and soil are so well adapted to the growth of the plant, surely it cannot be too extensively cultivated.

*Distillery Dreg.*—Draff is the exhausted husks of the barley—dreg the refuse of the still—a thick or thin liquid. Three gallons of thin, and two gallons of thick dreg yield 3 lbs. of dry food.

One gallon thin dreg gives 4.235 grains, solid matter containing

	<i>grains.</i>
Organic matter .....	3.871
Inorganic matter .....	364
	<hr/> 4.235

One gallon thick gives—

	<i>grains.</i>
Organic matter .....	10.290
Inorganic matter .....	594
	<hr/> 10.884