BIRMINGHAM

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## The Farm.

JANUARY, 1890

## A Straw Binder.

In response to a prize of \$10,000 offered by the Illinois State Grange for a practical machine or attachment to bind grain with straw, about forty inventors, from nearly every state in the Union, from Canada and Scotland, sent applications. Only one working model of full size was sent, to which the Committee tendered the prize. The Committee have seen this machine bind grain, and it does its work much tighter and better than binding by hand. It has an attachment for short straw or grain, which can be set in motion by the foot of the driver. The machine seemed perfectly easy to operate, and quite as simple as the twine binder, the knotter being stronger in construction, and yet is less cumbersome. The patentee purposes having his machine ready for operation in February, 1890, and will start it down in the south, working up to the north, as the grain is ready for cutting.

## Farming Affairs in Great Britain. (From our English Agricultural Correspondent.) London, Dec. 4, 1889. BARLY WINTER.

Winter has set in with unusual severity, and very early, as we have already had a week of sharp frost, and snow has fallen heavily in some parts of the country. The visitation has come too soon for many farmers, who had not sown all the land intended for wheat. We have had 10 degrees of frost on the ground, even as far south as London; and, of course, all ploughing, as well as sowing, is stopped for a time. Probably most of the land not sown will be planted with barley and oats in the spring, the price of wheat not being at all tempting; whereas, good samples of barley make high prices this season—as much as 5s. to even 6s. 3d. a bushel; and oats sell better than they did last year. The first three weeks of November were fine, almost without interruption, and farmers in most districts got in all the wheat not put in before, except here and there a field intended for wheat, after the turnips upon it had been fed off; but there are always "afternoon farmers" to be found, and such men had been dilatory, and are caught by the early winter. But this is not the worst of it, for there is grave reason to fear that severe frost occurring just after a great deal of wheat has been sown, will do it harm. When wheat has once got above ground, no frost that we get in this country hurts it much, except in certain light soils where the plant is liable to be upheaved, so that the roots are exposed; but when the grain is swollen with moisture, and not sprouted, severe frost will burst it and spoil it. Again, when the grain is kept below the surface long, its young sprouts are eaten off into their very hearts by grubs, and then a thin and gappy plant is the result. I fear we shall have a bad plant, as a rule, as even some of the early-sown fields do not show regular rows.

show regular rows.

FAT STOCK SHOWS.

Quality, rather than quantity, seems to be the rule at the fat stock shows of the season. It was so at the first, held at Norwich the other day; it is so at the Birmingham show, now open; and it will be so, as far as cattle are concerned, at the Smithfield show, to be opened in London next Monday. I give the entries for the two principal shows, as compared with those of previous years:—

I DA	Philippi	25.00.9			
1889.	18	88.	1887.	1886.	
Cattle 199	2	51	234	182	
Sheep 71		69	101	71	
Pigs 88		78	99	81	
	1	10	90	01	
Roots, corn and	-	7	240	00**	
potatoes 268	1	65	248	237	
Poultry and pi-					
geons 3,795	3.4	192	3,529	3,772	
goods third offer			Zione		
4,421	4,	055	4,289	4,336	
	ITHFIE	T D			
1889.	1888.	1887.	1886.	1885.	
Cattle 265	318	300	229	293	
0000000				190	
Sheep 205	201	183	173		
Pigs 74	85	83	85	66	
544	604	566	487	543	
The fact is, that too	many	cattle	were fat	tened	
for the Christmas m	BIREL	tast ye	ar, and	спете	
	mont o	+ the	nrices res	lized	
was great disappointment at the prices realized.					
Therefore, feeders have not got so many ready					
on the present occ	casion ;	and	what wi	ll be	

The fact is, that too many cattle were fattened for the Christmas market last year, and there was great disappointment at the prices realized. Therefore, feeders have not got so many ready on the present occasion; and what will be missed at the show this year will be a number of beasts sent last year and on three previous occasions, not with the remotest chance of getting a prize, but in order to be obtained in the ord

There is much disappointment here at the continued bad trade for wheat, which, if the statistical position counted for anything now adays, ought to be 10s. a quarter (half a crown a bushel) higher than it is. The average last week was only 30s. 1d. a quarter, or 4d. more than that of barley; while the top price of English wheat is only 37s. 1d., and that of barley is 50s. New Zealand long berry wheat is quoted up to 39s. 1d., and a rare sample of English may possibly be worth as much, though no such price is quoted. In spite of the recent rise in price, more weeks of firmness, and the present cold weather, the average is only 1s. Ed. a quarter above the lowest weekly average of the year. Yet the Russian ports are now closed, and the estimate of the American crop is 30,000,000 bushels less than was at one time confidently predicted. People talked about 500,000,000 bushels; and the Statistician of the Department of Agriculture now tells the public that 470,000,-000 bushels of 60 lbs. may be expected. It is true that the Australians furnish us a surplus, but that cannot be enough to make up for the diminished expectations of receipts from America. The live stock and meat trades are in a very satisfactory condition, and the prices of butter and cheese are moving upward. Cheshire cheese sells at 34s. to 82s. per so-called cwt. of 120 lbs.; Cheddar at 66s. to 74s., and Canadian at 56s. to 58s. Trade is good in the country, generally, and the prices of meat and dairy produce seem likely to keep up well.

AGRICULTURAL POLITICS.

Mr. Gladstone, speaking at Manchester on Monday, declared himself in favor of parochial, as well as district councils, in addition to the county councils recently created. He also proposed that parish authorities should be empowered to take land compulsorily, compensating the owners, in order to let it in allotments to laborers. The tithe question, however, is the chief agricultural one, as far as politicians are concerned. A tithe bill is expected to be one of the first measures to be introduced by the government next session; and there is no doubt that it will compel landlords to pay the impost, which they never ought to have shifted on to the backs of their tenants.

THE	AGRICULTURAL	RETURNS.	

The complete agricultural returns for the United Kingdom have now been issued by the Board of Agriculture, and I have compiled from them the following tables:—

	UNITED	KINGDOM.		
	1888.	1889.	In- crease.	De- crease.
	Acres.	Acres.	Acres.	Acres.
Grain crops				148,343
Green crops		4,541,766		187,431
Clover and grass-		4,021,100		101110-
es under Rota-				
	5,979,351	6,188,502	209,151	
tion		116,192	397	
Flax	115,795			TAK
Hops	58,494	57,749	F FOR	120
Small fruit	36,941	42,506	5,565	***
Bare fallow	473,116	531,010	57,894	
Total arable	21,178.585	21,115,073		63,512
Permanent pas- ture	26,698,229	26,816,092	117,863	•••••
Total cultivated				
area	47,876,814	47,931,065	54,351	
		IN DETA	IL.	
Wheat				123,677
Barley			51,596	
Oats	4 177 191	4,140,563		36,558
Rye	80 176	85,291		3,895
		325,191		19 121
Beans		225,726		16,668
Peas	WENTER	- AND FORM		
Total	9.795 697	9,637,354		148,343
2	12 -4 42 -	1		
It will be seen	tnat the	decrease	III THE	area or

It will be seen that the decrease in the area of arable land, together with the increase in the total cultivated area, due to reclamation, has been absorbed in permanent pasture, while grain and green crops (potatoes, roots, cabbages, vetches, &c.,) have given up ground also to clover and grasses under rotation. There is no doubt that the system of laying down land in temporary pasture is gaining ground, and an excellent system it is.

e e	1888.	1889.	Increase.
Horses Cattle Sheep Pigs	1,936,702	1.945.883	8,684
Cattle	10,268,600	10,272,765	4,105
Sheep	28,988,716	29,484,774	546,006
Pigs	8,810,048	9,809,009	- Ognan
Here, then, is a	increase	all round	, but not
sufficient to be s	atisfactory	Ten ye	ars ago we
had 2,753,184 mg	ore sheep th	an we have	e now, and
10,008 more agri	cultural ho	rses, while	the cattle
were fewer by	311,209, ar	d the pig	s by 721,-
579. Thus in th	e ten years	we have lo	st more in
sheep than the	small incre	ase in cat	tle makes
good. The sma	ll decrease	in horses	(and only
agricultural hors	es are enu	merated) i	s natural,
as there are fewer	acres unde	er tillage.	As to the
pigs, they consu	me grain	rather th	an grass,
Therefore, we d	evote more	land to	live stock
now than we de	voted ten	vears ago.	and feed
fower animals no	non it. T	here were	this year,
9 157 784 acres	of perman	ent and	temporary
grappes and clov	er in the l	Inited Ki	ngdom in
excess of the acr	eage of 187	9. In Gre	eat Britain
alone the permi	ment pasti	ire has inc	creased by
1 600 130 acres	in the dec	ade, the a	rable land
having decreased	hy 941.566	while 757	7.573 acres
have been added	to the tota	l cultivate	d area, and
absorbed also in	permanent	pasture.	
		•	

SALES OF PURE-BRED STOCK IN SCOTLAND.

The annual return of Scotch sales published by the Aberdeen Free Press, shows the course of prices during the past season as compared with

values in previous years :--

	PO	LL	D.				
No. Sold.		Average.		Total.			
	£	g.	d.	£	s.	ď	
1884 773	86	12	11	26,327	8	0	
1885 885	25	14	1	22,748	3	6	
1886 740	25	17	6	19,147	10	0 "	
1887 831	17	4	6	14,315	11	6	
1868 939	21	4	5	19.927	14	8	
1889 1,114	21	18	0	24,400	8	6	
	ORTHO	RN	3.			9	
1884 762	27	17	9	21,249	17	6	
1885 720	24	10	8	17,664	9	0	
1886 776	23	19	9	17,838	14	0	
1887 743	18	14	9	13,924	11	6	
1888 619	22	ĨĨ.	6	13,975	9	0	
1889 569	22	15	Ŏ	12,970	13	0	
100 CC 100 CC 10 CC			_	2			

It will be noticed that there has been a rise since 1886, but that the high values of earlier years have not been recovered. The explanation is, that there are more pure-bred animals in the world than there were, and that fancy prices are not often given now. But ordinary market cattle sell remarkably well.