Miscellaneons Series #201-A

SWINE FEEDING EXPERIMENT

Colorado Agricultural Experiment Station, Fort Collins, Colorado Fed 100 days - Jan. 24 to May 3, 1943

Table I.

Comparison of Grains

Grain	No.	No.	Ave.Daily	Ave.Daily	Total Feed Per	Feed Cost Per
	Hogs	Lots	Gain	Feed	100 lbs. Gain	100 lbs. Gain
Wheat Sample Corn No. 1 Corn No. 3 Corn Milo	11 11 12 12 10	2 2 2 2 2	1.14 lbs. 1.06 1.06 1.07	5.38 lbs. 5.15 4.82 5.04 5.00	474 lbs. 489 467 484 550	\$7.58 7.71 8.36 8.66 9.64

Table II Comparison of Recommended and Low Levels of Feeding Soybean Oil Meal

	No. Hogs	No. Lots	Ave.Daily Gain	Ave.Daily Feed	Total Feed Per 100 lbs. Gain	Feed Cost Per 100 lbs. Gain
.67 lbs.SOM per pig daily	28	5	1.30 lbs.	5.77 lbs.	445 lbs.	\$7.75
.20 lbs.SOM per pig daily	28	5	•82	4.38	541	9,03

Conclusions:

- 1. Wheat and sample grade (frosted) corn were found to be the most economical grains to feed. However, this experiment was not extensive enough to determine whether these differences are highly reliable or likely to reoccur in another similarly conducted experiment.
- 2. It does not pay from the standpoint of gains, efficiency of feed utilization, and feed costs to cut the soybean oil meal to one-third of the recommended amount.
- 3. Through the cooperation of Armour and Company at Denver, eleven backfats from these hogs were observed. Six were hard and slightly soft, five were soft, and none were oily. These proportions do not differ greatly from other experiments in which tankage was used as the protein supplement.

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(Table	based	on	one	average	pig.)

Table III						1 0,				·
Lot No.	1	2	3	4	5	6	7	8	9	10
			No. 1 Corn	Milo	Sample corn	Wheat	Milo	No. 1 Corn		Sample Corn
Rations*	.671b.SOM	.201b.SOM	.201b.SOM	.671b.SOM	.671b.SOM	.201b.SOM	.201b.SOM	.671b.SOM	.671b.SOM	.201b. SOM
			,			•				
No.Hogs	6	6	6	5	6	6	5	6	5	5
Av.Initial Wt.	77.0	79.1	72.4	78.9	79.8	79. 8	83.3	83.1	82.9	82.4
Av. Final Wt.	205.3	163,9	147.2	205.3	202.8	175.3	147.2	221.1	216.4	172.4
Av. Daily Gain	1.28	. 8	5 .7 5	1.26	1.23	•96	.64	1.38	1.34	•90
Av. Daily Ration										
No. 1 Corn			3.50					5.10		
No. 3 Corn	4.71	4.2	5							
Sample Corn					4.80					4.39
Wheat						4.47			5.24	
Milo				5.27			3.6 8			
S.O.Meal	.67	•20	20	•67	. 67	•20	.20	.64	•66	.20
Gr.Alf.	•08	.10	0 .10	•05	•07	•09	•08	· •06	.05	. 10
Mineral	•04	•0		•02	•03	•03	•03	• 03	•03	•04
Total	5.50	4.5	8 3.83	6.01	5.57	4.79	3.99	5.83	5.98	4.73
Feed Per Cwt.							1			
Gain:										
No.1 Corn			467.6					369.6		
No.3 Corn	367.3	501.1								405.0
Sample Corn					390.5				700 A	487.9
Wheat						468.3	550 3		392.4	
Milo				416.9			576.1		40.3	00.0
S.O.Meal	51.9	23.6		52.2	54.2	20.9	31.4	46.4	49.1	22.2
Gr.Alf.	6.0	12.3		3.8	5.4	9.1	12.8	4.6	3.8	11.5
Mineral	2.8	3.6		1.7	2.5	3.0	4.4	2.1	2.0 447.3	3.9 525.5
Total	428.0	540.6	511.9	474.6	452.6	501.3	624.7	422.7	447.3	323.0
Feed Cost Per						5 00	30.70	7.71	7.35	8.05
Cwt. Gain	7.83	9.4	9 9.01	8.51	7.36	7.82	10.78	1.11	7.00	0.00
Est.Market Value					7.4.00	77.05	3.7.00	3.4 OF	14.15	13.65
Per Cwt.	14.00	13.9	-	14.10	14.20	13.85		14.05		
Feed Costs Used	: Wheat		1.53 per 100	lbs. Mil	o @l.•7	70 per 100	lbs.			-fed other
•	No. 1 C	orn	L.74 " "	tt SOM	2. ⊕ (,	u	feeds self	fed.	o mont 2 monto
	No. 3 C Sample	orn Corn	L.74 " " " " " " " " " " " " " " " " " " "	W WITH	alfa eral** 1.8		. tt	**(2 parts s	teamed bor	ne meal, 2 parts art salt)
	combra.	- OIII		11111	~~~			Rr • Trmes	and a position	