

*Miscellaneous Series #241*

Miscellaneous Series Paper 241  
Colorado Agricultural Experiment Station  
Ft. Collins, Colorado  
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Cull and Split Pinto Beans for Fattening Pigs  
Fed 79 days - Feb. 23, 1944 to May 12, 1944

Lot Number	1	2	3	4
Feeds Fed:	Gr. Corn	Gr. Corn	Gr. Corn	
Alfalfa meal	Soybean	Pinto Bean	Cooked Pinto	Cooked Pinto
and mineral mix	Meal	Meal	Beans	Beans
self-fed in all lots				
Number of Pigs Fed	10	10	10	10
Initial Weight Per Pig	107.7	107.3	107.1	107.1
Number of Pigs Marketed				
at 56 days (over 200 lbs.)	3	1	3	2
Avg. Wt. Per Pig-56 days	178.8	144.8	173.5	161.6
Number of Pigs Marketed				
at 79 days (over 200 lbs.)	3	1	4	3
Total No. of Pigs Marketed	6	2	7	5
Number Pig Days on Feed	721	767	721	744
Total Gain of All Pigs	882.0	483.5	879.5	817.5
Avg. Daily Gain Per Pig	1.22	.63	1.22	1.10
Avg. Daily Ration				
Ground Corn	6.39	5.69	6.38	
Cooked Pinto Beans			2.01	19.29
Pinto Bean Meal		.64		
Soybean Meal	.68			
Alfalfa Meal	.022	.014	.022	.025
Mineral Mix	.008	.005	.008	.008
Feed Required Per Cwt. Gain				
Ground Corn	522.7	902.5	523.3	
Cooked Pinto Beans			165.1	1755.5
Pinto Bean Meal		102.0		
Soybean Meal	55.6			
Alfalfa Meal	1.8	2.3	1.8	2.2
Mineral Mix	.6	.8	.6	.7
Feed Cost Per Cwt. Gain	14.75	23.61	13.67	8.58
Feed Costs Used:				
Ground Corn	\$49.00 per ton	Soybean Meal	\$ 68.00 per ton	
Cooked Pinto Beans	9.70 " "	Alfalfa Meal	41.00 " "	
Ground Pinto Beans	28.00 " "	Mineral Mix	45.00 " "	

Note: Ground corn self-fed. Cooked Pinto Beans in Lot 3 fed in amount equal in dry weight to Bean Meal in Lot 2, and in Lot 4 fed according to appetite. The mineral mix used was 40% calcium carbonate, 40% steamed bone meal and 20% salt.

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Observations

1. Cull and split pinto beans are graded out when the bean crop is marketed, and are available for livestock feeding.
2. In this experiment raw pinto bean meal was not palatable to the pigs. This conforms to results and observations made in other experiments. The amount fed as a protein supplement in this test (Lot 2) was forced upon the pigs by feeding with the ground corn. These pigs made the poorest gains at the greatest cost in the experiment.
3. The cooked beans fed in this experiment were palatable to the pigs. The beans, 35 pounds at a time, were soaked over-night and cooked for three hours or until they could be crushed readily between the fingers. This amount made about 100 lbs. of cooked beans.
4. When the same amount of raw beans was cooked and fed as a protein supplement (Lot 3), results were obtained comparable to those found in Lot 1 fed soybean meal as a protein supplement.
5. Pigs fed cooked beans alone (Lot 4), compared to ground corn and soybean meal (Lot 1), made slightly lower gains, but the gains cost \$6.17 less per hundred pounds.
6. During the 79-day feeding period, only 2 pigs fed raw pinto bean meal were fat enough to market, while from 5 to 7 pigs were marketed from the other three lots.
7. There was no significant difference in the carcasses produced by the pigs sold from the different lots. The packer reported that the pigs from Lot 4 fed cooked beans produced carcasses just as firm after 30 hours chilling as did those from Lot 1 fed ground corn and soybean meal.