

Technical Bulletin #11

— FEEDING TRIAL PERFORMANCE REPORT —

SUMMARY: In an eight week feeding trial conducted in October, 1996, by Dr. Dean Zimmerman (Experiment No. 9612) at Iowa State University, Ames, Iowa, baby pigs fed starter diets with **Nutra-Flo DPS 30** gained more weight than those on a control diet with dried whey.

MATERIALS & METHODS: Young pigs (18 to 24 days of age) were used. Three dietary treatments were tested:

- 1) Weeks 1 & 2 - 25% whey 2) Weeks 1 & 2 - 10% whey, 10% lactose, 6% DPS 30 3) Weeks 1 & 2 - 10% whey, 10% lactose, 6% DPS 30
 Weeks 3 & 4 - 15% whey Weeks 3 & 4 - 15% whey Weeks 3 & 4 - 10% lactose, 6% DPS 30

All diets were equal in lysine and lactose levels. Each treatment was fed for 4 weeks. All pigs were then fed a common diet for an additional 4 weeks. Pigs and feeders were weighed initially and weekly for 8 weeks for calculation of feed and growth performance data.

RESULTS & DISCUSSION: In weeks 3, 4, 5 and 6 pigs on **DPS 30** diets consumed more feed and gained weight more rapidly than pigs on the control diet (dried whey). Pigs fed **DPS** gained on average 4.4 more pounds over the eight week trial.

AVERAGE DAILY GAIN: Pounds per Day

WEEK	DRIED WHEY (1)	6% DPS 30 WEEKS 1 & 2 (2)	6% DPS 30 WEEKS 1-4 (3)	PROBABILITY 1 vs 2 & 3
1	0.20	0.24	0.15	0.90
2	0.69	0.69	0.70	0.92
3	1.09	1.29	1.28	0.05
4	1.33	1.41	1.52	0.07
5 & 6	1.17	1.31	1.32	0.09
1 to 4	0.83	0.91	0.91	0.01
1 to 6	0.94	1.05	1.05	0.02
1 to 8	1.16	1.23	1.24	0.05

AVERAGE DAILY FEED INTAKE: Pounds per Day

WEEK	DRIED WHEY (1)	6% DPS 30 WEEKS 1 & 2 (2)	6% DPS 30 WEEKS 1-4 (3)	PROBABILITY 1 vs 2 & 3
1	0.45	0.41	0.34	0.08
2	0.94	1.01	0.95	0.57
3	1.64	1.93	1.76	0.01
4	2.17	2.38	2.44	0.02
5 & 6	2.38	2.66	2.69	0.06
1 to 4	1.30	1.43	1.37	0.008
1 to 6	1.66	1.84	1.81	0.01
1 to 8	2.15	2.32	2.35	0.01

FEED EFFICIENCY: Pounds Gained per Pound of Feed

WEEK	DRIED WHEY (1)	6% DPS 30 WEEKS 1 & 2 (2)	6% DPS 30 WEEKS 1-4 (3)	PROBABILITY 1 vs 2 & 3
1	0.43	0.57	0.45	0.16
2	0.73	0.68	0.73	0.82
3	0.67	0.67	0.73	0.35
4	0.62	0.59	0.62	0.62
5 & 6	0.49	0.50	0.49	0.69
1 to 4	0.64	0.64	0.66	0.26
1 to 6	0.57	0.57	0.58	0.44
1 to 8	0.54	0.53	0.53	0.26

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