

**Table 1. The Effects of Ractopamine Hydrochloride (RAC) and Lysine on Final Body Weight, Growth Rate, Average Daily Feed Intake and Feed Efficiency (Feed:Gain) in Finishing Barrows**

Item	Body Weight, lb.		Avg. Daily Gain lb./day <sup>1</sup>	Avg. Daily Feed Intake lb./day <sup>1</sup>	Feed:Gain
	Initial	Final			
<b>RAC (g./ton)</b>					
0	206.4	242.4	2.4	7.0	2.91
4.5	206.4	248.4	2.9	7.0	2.41
9.0	207.0	247.9	2.9	6.6	2.43
<b>Lysine (g./Mcal)</b>					
1.75	205.7	244.0	2.4	7.3	2.86
2.25	207.2	248.4	1.9	6.8	2.50
2.75	206.8	246.4	2.6	6.6	2.50

<sup>1</sup> Calculated based on 15-day experimental period.

**Table 2. The Effect of Ractopamine Hydrochloride (RAC) and Lysine on Feed and Water Intake, Fecal and Urine Output, Water Excretion and Retention in Finishing Barrows**

Item	ADFI (dry basis), lb./day	Water Intake, gal./day <sup>1</sup>	Fecal Output (dry basis), lb./day	Urine Output, gal./day	Water Excretion, gal./day <sup>2</sup>	Apparent Water Retention, gal./day <sup>3</sup>
<b>RAC (ppm)</b>						
0	6.2	2.2	0.9	0.9	1.0	1.2
4.5	6.4	2.1	1.1	0.8	1.0	1.2
9.0	5.9	1.9	0.9	0.8	0.8	1.2
<b>Lysine (g./Mcal)</b>						
1.75	6.4	2.1	1.1	0.8	1.0	1.2
2.25	6.2	2.0	1.1	0.8	0.9	1.1
2.75	5.9	2.1	0.9	0.9	1.0	1.2
<b>Sample Period (days)</b>						
Day 6-8	5.9	2.0	0.9	0.8	0.9	1.1
Day 13-15	6.4	2.1	1.1	0.9	1.0	1.1

<sup>1</sup> Includes water consumption and diet moisture  
<sup>2</sup> Sum of fecal water output and urine output  
<sup>3</sup> Calculated as the difference between water intake and urine and fecal excretion. Other moisture losses (i.e. respiration) were not accounted for.  
ADFI = average daily feed intake; ppm = parts per million

**Table 3 The Effect of Ractopamine Hydrochloride (RAC) and Lysine Concentration on Nitrogen (N) Balance in Finishing Barrows**

Item	N Intake, lb./day	N Digestibility, %	Urinary N Excretion, lb./day	Fecal N Excretion, lb./day	Total N Excretion, lb./day	N Retention, lb./day
<b>RAC (ppm)</b>						
0	0.18	84.4	0.06	0.03	0.09	0.09
4.5	0.19	83.2	0.06	0.03	0.09	0.10
9.0	0.17	83.8	0.05	0.03	0.08	0.09
<b>Lysine (g./Mcal)</b>						
1.75	0.17	83.0	0.05	0.03	0.08	0.08
2.25	0.18	83.7	0.05	0.03	0.08	0.10
2.75	0.19	84.8	0.06	0.03	0.09	0.10
<b>Sample Period (days)</b>						
Day 6-8	0.17	83.7	0.05	0.03	0.08	0.09
Day 13-15	0.20	83.9	0.06	0.03	0.09	0.10

ppm = parts per million

**Table 4. Calculated Water and Nutrient Balance for the Finishing Period (210-260 lb., body weight) <sup>1</sup>**

Item	Ractopamine Hydrochloride (g./ton)		
	0 <sup>2</sup>	4.5 <sup>2</sup>	9 <sup>2</sup>
Feed intake (as-fed), lb.	133.8	119.7	112.2
Nitrogen intake, lb.	3.3	3.1	2.9
Water intake, gal.	41.6	35.6	32.8
Water excretion, gal. <sup>3</sup>	19.3	15.9	14.4
Urine output, gal.	17.7	14.3	12.9
Fecal output (dry basis), lb.	18.5	18.3	16.5
Nitrogen excreted, lb.	1.8	1.5	1.3
Nitrogen retained, lb.	1.8	1.8	1.5

<sup>1</sup> Except days to market, which were obtained from the growth experiment, calculations were based on results obtained in the metabolism experiment.

<sup>2</sup> Pigs fed ractopamine were considered to reach market weight (260 lb., in 17 days from 210 lb. and pigs fed no ractopamine were considered to reach market weight in 19 days from 210 lb.

<sup>3</sup> Water excretion is the sum of urine output and fecal moisture.