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Glenn Grimes

Ron Plain

and

Steve Meyer

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The Department of Agricultural Economics is a part of the Division of Applied Social Sciences of the
College of Agriculture, Food and Natural Resources at the University of Missouri-Columbia
200 Mumford Hall, Columbia, MO 65211 USA
Phone: 573-882-3545 • Fax: 573-882-3958 • <http://www.dass.missouri.edu/agecon>

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*Glenn Grimes, Professor Emeritus, Agricultural Economics, University of Missouri-Columbia
Ron Plain, Professor, Agricultural Economics, University of Missouri-Columbia
Steve Meyer, President, Paragon Economics, Des Moines, Iowa*

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The changes in U.S. pork trade in the past 20 years are quite impressive. U.S. pork exports have grown from 86 million pounds carcass weight equivalent in 1986 to 2.66 billion pounds in 2005. Another comparison shows that the U.S. has gone from a negative 1.036 billion pounds net export in 1986 to a positive 1.636 billion pounds in 2005 (Table 1).

The value of pork and pork byproduct exports has grown from \$1.97 per hog slaughtered in 1986 to \$25.44 per head slaughtered in 2005 (Table 2).

These changes in trade have permitted the pork industry to grow at an additional rate of about 0.8% per year on average over the last 20 years. In other words, the U.S. pork industry was about 16 million head larger in 2005 than it would have been had pork imports and exports remained at 1986 levels.

Not only has the increase in the quantity of pork traded allowed the industry to grow without lowering prices, but it has also added to producers' incomes in the years when net exports grew. Our efforts to calculate the returns to producers by year from 1986 to 2005 are in Table 3. We believe these estimates are conservative because they show that producers' incomes increased only in the year when net exports grew. In other words, we assumed producers reacted to higher prices by increasing the U.S. herd enough to offset any price benefits from net export growth in the following years. Some observers do not believe producers could react this quickly or increase production enough to completely offset benefits in the following years.

Pork producers can take credit for much of this export growth. They have improved the quality of pork which has made it more competitive and funded promotion efforts. Efforts by the

U.S. government to liberalize trade, as well as improved per capita incomes in many countries were also important factors in increasing exports. Japan is the largest U.S. pork customer, purchasing nearly 40% of our exports in 2005. Mexico is second and Canada is third in tonnage purchased from the U.S. Table 4 shows our most important pork customers by their percentage share of U.S. pork exports purchased in 2005 based on carcass weight equivalent.

Three major groups in the U.S. have contributed to the promotion of pork exports. They are USDA, the U.S. meat packing industry, and hog producers. No studies have been made, that we are aware of, to determine the amount of credit each of these groups should receive for increasing the growth in pork exports. Pork producers alone have spent nearly \$55 million in the last 20 years to promote exports through Pork Checkoff funds.

We believe the total income of all U.S. pork producers has been improved by \$6.3 billion over the last 20 years by the increase in exports (Table 3). Less than 13% of this would be required to repay all of the \$775.5 million in Checkoff contributions by producers during this period.

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Table 1
U.S. Pork Imports and Exports
(million pounds)

Year	Pork Imports	Pork Exports	Net Pork Exports
1986	1122	86	- 1036
1987	1195	109	- 1086
1988	1137	195	- 942
1989	896	268	- 628
1990	898	243	- 655
1991	775	290	- 485
1992	646	420	- 226
1993	740	446	- 294
1994	744	549	- 195
1995	664	787	123
1996	619	970	351
1997	634	1044	410
1998	705	1230	525
1999	827	1277	451
2000	967	1287	320
2001	951	1559	608
2002	1071	1612	541
2003	1185	1717	532
2004	1099	2181	1082
2005	1024	2660	1636

Table 2
Value of U.S. Pork and Byproduct Exports to the Pork Industry
per Head of Total U.S. Slaughter

Year	Value of Pork	Value of Byproducts	Total
1986	\$1.05	\$0.92	\$1.97
1987	1.59	1.10	2.69
1988	2.84	1.62	4.46
1989	3.72	1.35	5.07
1990	3.84	1.51	5.35
1991	3.79	1.71	5.50
1992	4.76	1.66	6.42
1993	5.20	1.61	6.81
1994	5.73	1.80	7.53
1995	8.79	1.83	10.62
1996	11.02	1.82	12.84
1997	11.36	2.46	13.82
1998	10.17	2.13	12.30
1999	10.86	1.83	12.69
2000	12.34	2.00	14.34
2001	14.17	2.23	16.40
2002	13.42	2.02	15.44
2003	13.80	2.38	16.18
2004	18.15	3.38	21.53
2005	22.01	3.43	25.44

Table 3
Returns to Producers from Decreased Imports
and Increased Exports of Pork

Year	Checkoff funding \$	Returns in mil. ² \$	Net Import or Export ³ %	Return per cwt. \$	Return per hog \$
2005	4,755,263	1,608.7	7.91 net exp.	5.83	15.54
2004	4,365,761	1,654.2	5.27 net exp.	6.05	15.99
2003	4,675,003	- 46.3	2.67 net exp.	- 0.17	- 0.46
2002	4,842,222	- 199.9	2.75 net exp.	- 0.76	- 1.99
2001	5,159,989	810.7	3.18 net exp.	3.18	8.28
2000	5,245,321	- 377.7	1.69 net exp.	- 1.49	- 3.86
1999	4,896,000	- 129.2	2.33 net exp.	- 0.49	- 1.27
1998	5,700,000	114.7	2.76 net exp.	0.45	1.14
1997	4,800,000	136.0	2.37 net exp.	0.58	1.48
1996	2,498,000	363.4	2.05 net exp.	2.45	6.10
1995	1,754,000	597.4	0.69 net exp.	2.49	6.20
1994	1,267,800	200.3	1.11 net imp.	0.84	2.09
1993	1,150,000	- 149.9	1.73 net imp.	- 0.65	- 1.61
1992	1,079,000	545.9	1.31 net imp.	2.35	5.75
1991	996,268	419.5	3.04 net imp.	1.94	4.76
1990	651,595	- 67.9	4.28 net imp.	- 0.33	- 0.80
1989	466,024	368.1	3.98 net imp.	1.72	4.15
1988	280,577	277.5	6.03 net imp.	1.31	3.16
1987	125,834		7.59 net imp.		
Total	54,657,668	6,325.5		avg. 1.40	avg. 3.59

¹ Used -0.5 elasticity 1988-1990
Used -0.3 elasticity 1991-1999
Used -0.2 elasticity 2000-2005

² Net import or export as percent of U.S. production.

Table 4
U.S. Pork Exports by Country in 2005
Percent Share of Tonnage

Country	% of U.S. Exports
Japan	39.3
Mexico	20.2
Canada	11.3
South Korea	7.1
China (mainland)	4.6
Russia	3.5
China (Taiwan)	2.4
Caribbean	1.5
Hong Kong	0.9
Other	9.2