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AAEA SURVEY OF ANNUAL OUTLOOK INFORMATION

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Summary of 1981 Survey

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Background

The 1981 Survey of Annual Outlook Information was the fourth such survey conducted by the AAEA, upon the recommendation of the AAEA Agricultural Statistics Committee. The first survey was held in 1978 and the results were presented in an outlook symposium at the 1978 summer meetings. Subsequent surveys have followed the same general procedures and format as the initial survey.

The purpose of this year's survey was to continue to recognize agricultural and economic outlook as areas of interest at the annual meeting and to provide a focal point for a symposia discussion of the agricultural situation and outlook and related subject matter.

Survey forms were mailed in mid-June to a mailing list consisting of respondents to previous outlook surveys, known AAEA members with forecasting responsibilities, and Heads and Chairmen of Agricultural Economics Departments for distribution to faculty members with outlook interests or responsibilities. Some AAEA members who would have participated in the survey were no doubt missed. Additional ways to identify other AAEA members who would be interested in participating in the outlook survey should be considered. Since there was no attempt to obtain information from a statistically representative sample of the AAEA membership, the survey results should not be considered as representative of the AAEA membership in general, nor even of AAEA members with outlook responsibilities.

The deadline for return of questionnaires was July 13 and nearly all responses were received during the the first two weeks of July. As a result, the information should reflect the current views of the participants.

Presented at AAEA meetings, Clemson University, July 26-29, 1981

1981  
Agriculture - Economic aspects

All values reported on questionnaires were included in the survey summary. Because of the short time between the survey deadline and the symposium, the analysis of the data was both limited and hurried. These limitations should be recognized as the survey results are used and evaluated.

#### Summary of Survey Results

The results of the 1981 survey are summarized in the following tables. And a copy of the survey form is included for reference.

Forty-four questionnaires were returned in time to be included in the survey summary. The affiliation of the respondents, the extent formal models are used in forecasting, and degree of forecasting responsibility are summarized in table 1. University economists were the largest participating group and most respondents reported either moderate or major forecasting responsibilities. Only three respondents made major use of formal forecasting models in developing their forecasts.

Table 2 through 4 summarize the survey results from all respondents on all data forecasts. The tables show the number of respondents (N), the mean value of the responses (Mean), the standard deviation of responses (S.D.), the smallest value (Min), the largest value (Max) and the coefficient of variation for each value (C.V.).

In the livestock/poultry sectors, mean forecasts indicated small increases in beef production this year and in 1982, moderate reductions in pork production both years, moderate increases in broiler output in both 1981 and 1982, and little change in egg production. Higher prices are forecast in 1981 for all livestock and poultry products included in the survey, except feeder cattle. Mean price forecasts for 1982 are above 1981 on cattle, hogs and broilers, with no change on eggs.

Forecasts of 1981 crop production averaged above 1980 on wheat, corn, soybeans

and cotton. Mean price forecasts for 1980-81 were above the previous year on all grain and oilseed crops and products included in the survey, except soybean oil. Price forecasts for 1981-82 averaged below the current year on wheat, cotton and soybean meal and were nearly unchanged on other products.

Mean forecast values of general agricultural and economic data included moderate increases in cash receipts from farm marketings in both 1981 and 1982. Little change in net farm income was forecast for 1981, with a moderate rise in 1982. Further increases in land values were forecast for both 1981 and 1982. Moderate growth in real GNP was forecast for both years and the rise in the CPI was forecast to be more moderate in 1981 and 1982 than the 13.5% rise in 1980.

Table 5 summarizes the 1982 mean forecast values by affiliation of respondents and table 6 represents mean forecasts grouped by the degree of outlook responsibility of the respondents. Table 7 compares the mean forecasts of those specializing in outlook and those of other respondents. No consistent pattern with respect to forecast level is apparent for any of these respondent groupings.

TABLE 1. CHARACTERISTICS OF RESPONDENTS

Affiliation:

	<u>University</u>	<u>Industry/Business</u>	<u>Government</u>
Number:	29	10	5

Use of Formal Models:

	<u>Major</u>	<u>Moderate</u>	<u>Minor</u>	<u>None</u>
Number:	3	12	17	12

Forecasting Responsibilities:

	<u>Major</u>	<u>Moderate</u>	<u>Minor</u>
Number:	17	15	12

TABLE 2. LIVESTOCK PRODUCTION AND PRICES

	<u>N</u>	<u>Mean</u>	<u>S.D.</u>	<u>Min</u>	<u>Max</u>	<u>C.V.</u>
Beef Production						
1981 as pct. 1980	32	102.2	2.13	98.0	108.0	2.1
1982 as pct. 1981	32	102.3	2.16	97.0	106.0	2.1
Fed Cattle Prices (\$/cwt.)						
1981 (Ch. Str. Omaha)	33	67.66	2.31	62.00	75.00	3.4
1982 (Ch. Str. Omaha)	33	70.93	3.09	65.00	78.00	4.4
Feeder Cattle Prices (\$/cwt.)						
1981 (Ch. Str. K.C.)	26	69.57	4.71	63.00	82.00	6.8
1982 (Ch. Str. K.C.)	25	73.89	6.43	63.00	90.00	8.7
Pork Production						
1981 as pct. 1980	32	94.2	3.14	91.0	105.0	3.3
1982 as pct. 1981	32	96.8	3.66	90.0	106.0	3.8
Hog Prices (\$/cwt.)						
1981 (7 mkt. avg.)	33	47.33	1.92	43.00	53.00	4.1
1982 (7 mkt. avg.)	33	52.21	3.39	44.00	59.00	6.5
Broiler Production						
1981 as pct. 1980	21	104.2	2.00	100.0	108.0	1.9
1982 as pct. 1981	22	103.1	1.95	100.0	108.0	1.9
Broiler Prices (¢/lb.)						
1981 (9 city avg.)	21	49.69	1.66	47.0	54.0	3.3
1982 (9 city avg.)	21	52.36	3.47	47.0	64.3	6.6
Egg Production						
1981 as pct. 1980	12	99.8	0.84	98.0	101.0	0.8
1982 as pct. 1981	13	100.1	1.32	98.0	102.0	1.3
Egg Prices (¢/doz.)						
1981 (N.Y. A Lg.)	12	73.23	1.96	70.0	76.0	2.7
1982 (N.Y. A Lg.)	13	73.18	3.11	68.0	78.5	4.3

TABLE 3.

CROP PRODUCTION AND PRICES

	<u>N</u>	<u>Mean</u>	<u>S.D.</u>	<u>Min</u>	<u>Max</u>	<u>C.V.</u>
Wheat Production and Use						
Production 81-82	15	2671	123.90	2400	2860	4.6
Exports 81-82	15	1545	173.86	975	1700	11.3
Carryout 81-82	15	1180	119.45	1000	1500	10.1
Wheat Prices (\$/bu.)						
1980-81 (#1 HRW, K.C.)	15	4.36	0.15	4.00	4.50	3.4
1981-82 (#1 HRW, K.C.)	16	4.19	0.30	3.50	4.75	7.2
Corn Production and Use						
Exports 80-81	16	2513	55.65	2450	2700	2.2
Carryout 80-81	18	873	85.16	720	1010	9.8
Production 81-82	19	7368	231.28	6800	7800	3.1
Exports 81-82	19	2411	367.48	1000	2900	15.2
Carryout 81-82	19	901	179.07	550	1200	19.9
Corn Prices (\$/bu.)						
1980-81 (#2 Yel. Chicago)	20	3.39	0.11	3.15	3.55	3.2
1981-82 (#2 Yel. Chicago)	21	3.41	0.27	2.90	3.90	7.9
Cotton Production and Use						
Exports 80-81	10	6.07	0.10	6.00	6.30	1.7
Carryout 80-81	10	2.42	0.12	2.20	2.60	5.0
Production 81-82	10	13.83	0.19	13.50	14.20	1.4
Exports 81-82	10	6.96	0.35	6.30	7.40	5.0
Carryout 81-82	10	3.26	0.26	2.90	3.80	8.0
Cotton Prices (¢/lb)						
1980-81 (U.S. SLM, 1-1/16)	11	80.17	3.80	72.00	85.00	4.7
1981-82 (U.S. SLM, 1-1/16)	11	76.34	3.45	72.50	85.00	4.5

TABLE 3. (cont.)

CROP PRODUCTION AND PRICES

	<u>N</u>	<u>Mean</u>	<u>S.D.</u>	<u>Min</u>	<u>Max</u>	<u>C.V.</u>
Soybean Production and Use						
Exports 80-81	14	745	17.65	720	775	2.4
Carryout 80-81	15	302	26.07	260	358	8.6
Production 81-82	15	2020	78.16	1870	2100	3.9
Exports 81-82	14	821	31.59	750	875	3.9
Carryout 81-82	15	306	67.48	180	400	22.1
Soybean Prices (\$/bu)						
1980-81 (#1 Yel. Chicago)	15	7.54	0.16	7.10	7.75	2.1
1981-82 (#1 Yel. Chicago)	16	7.53	0.58	6.50	8.97	7.7
Soybean Oil Prices (¢/lb)						
1980-81 (Decatur)	13	24.23	2.12	22.90	30.00	8.8
1981-82 (Decatur)	13	24.49	1.78	22.00	28.00	7.3
Soybean Meal Prices (\$/ton)						
1980-81 (Decatur)	16	220.13	6.02	210.00	235.00	2.7
1981-82 (Decatur)	17	218.58	21.08	175.00	257.00	9.6



TABLE 4. AGRICULTURAL COSTS AND RETURNS

	<u>N</u>	<u>Mean</u>	<u>S.D.</u>	<u>Min</u>	<u>Max</u>	<u>C.V.</u>
Cash Receipts from Marketing						
All Crops & Products						
1981 (\$ Bil.)	11	76.27	2.72	72.0	82.0	3.6
1982 (\$ Bil.)	10	81.01	4.70	74.0	87.0	5.8
All Livestock & Products						
1981 (\$ Bil.)	11	74.33	2.87	69.0	78.0	3.9
1982 (\$ Bil.)	10	80.50	5.27	69.5	87.0	6.6
Realized Net Farm Income						
1981 (\$ Bil.)	14	24.14	1.72	21.0	27.0	7.1
1982 (\$ Bil.)	13	27.41	2.30	22.0	30.0	8.4
Land Values						
1981 (% change from 1980)	16	6.90	2.31	3.0	10.0	33.5
1982 (% change from 1981)	15	8.12	3.30	1.0	14.5	40.6
Real GNP						
% change 80 to 81	21	2.28	1.11	0.0	5.0	48.7
% change 81 to 82	20	3.39	1.11	1.0	6.0	32.7
CPI All Items						
% change 80 to 81	22	9.82	0.82	8.5	11.5	8.4
% change 81 to 82	21	8.73	1.35	7.0	12.0	15.5
Food Prices (all at home and away)						
% change 80 to 81	20	8.20	1.44	5.0	11.0	17.6
% change 81 to 82	18	9.04	1.80	5.0	12.5	19.9

TABLE 5. 1982 MEAN VALUE PROJECTIONS BY  
RESPONDENT AFFILIATION

	<u>Univ.</u>	<u>Ind./Bus.</u>	<u>Gov't.</u>
Slaughter Steer Price	71.78	69.03	70.60
Feeder Steer Price	75.10	68.65	75.50
Hog Price	52.23	52.72	51.34
Broiler Price	52.03	52.46	53.33
Egg Price	72.43	74.43	73.67
Corn Price	3.35	3.44	3.53
Wheat Price	4.21	4.18	4.19
Cotton Price	78.0	75.3	74.3
Soybean Price	7.59	7.46	7.48
Soybean Oil Price	24.97	23.96	24.35
Soybean Meal Price	223.22	204.97	238.50
Cash Receipts, Crops (\$ Bil.)	79.4	80.0	86.5
Cash Receipts, Livestock (\$ Bil.)	78.1	82.8	83.0
Net Farm Income (\$ Bil.)	28.3	27.2	26.5
Land Value	+6.43	+7.33	+11.88
Real GNP	+3.39	+2.97	+4.13
CPI	+8.4	+8.6	+9.9
Food Prices	+8.6	+8.9	+10.9

TABLE 6. 1982 MEAN VALUE PROJECTIONS BY  
OUTLOOK RESPONSIBILITY

	<u>Maj</u>	<u>Mod</u>	<u>Min</u>
Slaughter Steer Price	70.41	71.94	70.60
Feeder Steer Price	71.70	73.97	76.56
Hog Price	52.97	52.07	51.37
Broiler Price	52.6	53.7	51.0
Egg Price	71.6	76.2	73.0
Corn Price	3.44	3.28	3.46
Wheat Price	4.25	3.93	4.19
Cotton Price	75.3	75.0	78.4
Soybean Price	7.40	7.82	7.49
Soybean Oil Price	23.95	26.00	25.18
Soybean Meal Price	212.88	225.00	228.00
Cash Receipts, Crops (\$ Bil.)	81.7	80.8	80.7
Cash Receipts, Livestock (\$ Bil.)	82.8	82.3	75.8
Net Farm Income (\$ Bil.)	27.8	28.3	25.9
Land Value	+7.56	+8.30	+8.50
Real GNP	+2.94	+3.47	+3.92
CPI	+8.1	+9.5	+8.6
Food Prices	+9.0	+9.5	+8.6

TABLE 7. 1982 PROJECTIONS BY OUTLOOK SPECIALISTS  
VS OTHERS RESPONDING

	<u>Specialists</u>	<u>Others</u>
Slaughter Cattle Prices	70.43	75.86
Feeder Cattle Prices	71.69	82.24
Hog Prices	53.38	51.24
Broiler Prices	52.16	52.39
Egg Prices	71.50	73.48
Wheat Prices	4.19	4.20
Corn Prices	3.34	3.45
Cotton Prices	76.2	77.5
Soybean Prices	7.72	7.34
Soybean Oil Prices	24.36	24.56
Soybean Meal Prices	218.17	218.8
Cash Receipts, Crops (\$ Bil.)	79.25	82.18
Cash Receipts, Livestock (\$ Bil.)	80.75	80.33
Net Farm Income (\$ Bil.)	27.5	27.4
Land Values (81-82)	+6.75	+8.33
Real GNP (81 to 82)	+3.38	+3.39
CPI (81 to 82)	+8.03	+8.84
Food Prices (81 to 82)	+9.35	+8.88

AAEA ANNUAL OUTLOOK SURVEY

AAEA Members involved in Market Analysis, Outlook or Forecasting

I. Personal Information

- A. Name \_\_\_\_\_ \*
- B. Affiliation:  
 University \_\_\_\_\_ Government \_\_\_\_\_  
 Industry/Business \_\_\_\_\_ Other \_\_\_\_\_
- C. How much use do you make of formal econometric models in developing your forecast? (Major ) (Moderate ) (Minor ) (None )
- D. Forecasting is a (Major ) (Moderate ) (Minor ) responsibility in my position.

Please make estimates where you feel you have professional competence.

You need not respond in all areas. Please check (✓) commodities and/or economic areas for which you have major forecasting responsibility.

II. Commodity Outlook

Check (✓) your major commodity responsibility, if any.

A. Livestock and Poultry

<u>Production</u>	<u>1980</u>	<u>1980 as pct. 1979</u>	<u>1981 as pct. 1980</u>	<u>1982 as pct. 1981</u>
( ) Beef (comm. prod.)	<u>21.5 bil. lbs.</u>	<u>101</u>	_____	_____
( ) Pork (comm. prod.)	<u>16.4 bil. lbs.</u>	<u>108</u>	_____	_____
( ) Broilers (FI slaughter)	<u>11.1 bil. lbs.</u>	<u>102</u>	_____	_____
( ) Eggs (farm prod.)	<u>5.8 bil. doz.</u>	<u>100</u>	_____	_____
<u>Prices</u>		<u>1980</u>	<u>1981</u>	<u>1982</u>
Choice slaughter steers Omaha (\$/cwt.)		<u>66.96</u>	_____	_____
Choice feeder steers 600-700 lb. Kansas City (\$/cwt.)		<u>75.23</u>	_____	_____
Barrows & gilts, 7 markets (\$/cwt.)		<u>40.04</u>	_____	_____
Broilers, 9 city area (¢/lb.)		<u>46.8</u>	_____	_____
Eggs, NY, gd. A lg. (¢/doz.)		<u>66.9</u>	_____	_____

Mail responses to Gene Futrell, Dept. of Econ., 468 East Hall, Iowa State University, Ames, Iowa 50011

Must be received by: July 13, 1981

\* Names necessary to insure credibility of the survey but will not be recorded with data nor used in analysis of survey results.

B. Crops

Check (✓) your major commodity responsibility, if any.

Supply and Utilization\*

	1980-81 Crop Year		1981-82 Crop Year		
	<u>Exports</u>	<u>Carry out</u>	<u>Production</u>	<u>Exports</u>	<u>Carry out</u>
( ) Wheat (mil. bu.)	<u>XXX</u>	<u>XXXX</u>	<u>          </u>	<u>          </u>	<u>          </u>
( ) Corn (mil. bu.)	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
( ) Cotton, upland & ELS (mil. bales)	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
( ) Soybeans (mil. bu.)	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>

\*See World Agricultural Supply & Demand Estimates, USDA for base data.

Prices

	<u>1979-80</u>	<u>1980-81</u>	<u>1981-82</u>
Corn (\$/bu.) (No. 2 Yellow, Chicago)	<u>2.81</u>	<u>          </u>	<u>          </u>
Wheat (\$/bu.) (No. 1 HRW, Kansas City)	<u>4.25</u>	<u>          </u>	<u>          </u>
Cotton (¢/lb.) (U.S., SLM, 1-1/16, in.)	<u>71.5</u>	<u>          </u>	<u>          </u>
Soybeans (\$/bu.) )No. 1 Yellow, Chicago)	<u>6.25</u>	<u>          </u>	<u>          </u>
Soybean oil (¢/lb.) (Decatur, IL)	<u>24.3</u>	<u>          </u>	<u>          </u>
Soybean meal (\$/ton) (Decatur, IL)	<u>181.90</u>	<u>          </u>	<u>          </u>

III. Agricultural and General Economic Outlook.

Check (✓) your major areas of responsibility, if any

	<u>1980</u>	<u>1981</u>	<u>1982</u>
( ) Cash Receipts from Marketings			
All crops and products (\$ Bil.)	<u>71.0</u>	<u>          </u>	<u>          </u>
All livestock and products (\$ Bil.)	<u>69.0</u>	<u>          </u>	<u>          </u>
( ) Realized Net Farm Income (\$ Bil.) (exc. inv. change)	<u>24.0 (prel. est.)</u>	<u>          </u>	<u>          </u>
	<u>1980/79</u>	<u>1981/80</u>	<u>1982/81</u>
( ) Land values (Pct. Change)	<u>+ 9.3</u>	<u>          </u>	<u>          </u>
( ) Real GNP (1972 \$) (Pct. Change)	<u>- 0.2</u>	<u>          </u>	<u>          </u>
( ) CPI all items (1967 = 100) (Pct. Change)	<u>+13.5</u>	<u>          </u>	<u>          </u>
( ) Food Prices (all at home and away) (Pct. Change)	<u>+ 8.6</u>	<u>          </u>	<u>          </u>