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CROP PRODUCTION

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Minnesota

Minnesota **corn** production is forecast at 1.41 billion bushels, down 5 percent from last year. Based on conditions as of August 1, yields are expected to average 191 bushels per acre, a decrease of 3 bushels per acre from last year. Corn planted acreage is estimated at 7.80 million acres. An estimated 7.40 million of the acres planted will be harvested for grain.

Soybean production is forecast at 379 million bushels, down fractionally from last year. The yield is forecast at 49.0 bushels per acre, 2 bushels above 2017. Soybean planted acreage is estimated at 7.80 million acres with 7.74 million acres to be harvested.

Spring wheat production is estimated at 98.3 million bushels, an increase of 30 percent from 2017. Yield is forecast at 63.0 bushels per acre, down 4 bushels from both the July forecast and the 2017 yield.

Oat production for grain is forecast at 8.28 million bushels, up 16 percent from last year. The yield is forecast at 69.0 bushels per acre, unchanged from July but down 6.0 bushels from 2017.

Barley production is forecast at 5.36 million bushels, up 4 percent from 2017. Yield is forecast at 80.0 bushels an acre, 4.0 bushels above that of 2017.

Sugarbeet production is estimated at 11.4 million tons, down 9 percent from last year. Yield is forecast at 29.3 tons per acre, down 1.3 tons from last year.

Minnesota hay yield for **alfalfa and alfalfa mixtures** is forecast at 3.20 tons per acre, with a total production of 2.85 million tons, a 2 percent decrease in production from 2017. The forecast yield for **other hay** is 2.20 tons per acre, with a production of 1.12 million tons.

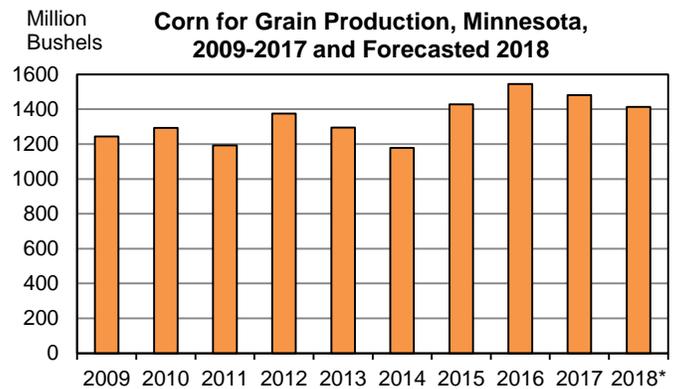
United States

Corn production is forecast at 14.6 billion bushels, down less than 1 percent from last year. Based on conditions as of August 1, yields are expected to average 178.4 bushels per acre, up 1.8 bushels from 2017. If realized, this will be the highest yield on record for the United States. Area harvested for grain is forecast at 81.8 million acres, unchanged from the June forecast, but down 1 percent from 2017.

Soybean production is forecast at 4.59 billion bushels, up 4 percent from last year. Based on conditions as of August 1, yields are expected to average 51.6 bushels per acre, up 2.5 bushels from last year. Area for harvest in the United States is forecast at 88.9 million acres, unchanged from the June forecast, but down 1 percent from 2017.

Other spring wheat production is forecast at 614 million bushels, up slightly from the July forecast and up 48 percent from last year. If realized, this represents the third highest production on record. Area harvested for grain or seed is expected to total 12.9 million acres, unchanged from last month, but 27 percent above 2017. The United States yield is forecast at a record high 47.6 bushels per acre, unchanged from the July forecast, but up 6.6 bushels from last year. Of the total production, 583 million bushels are Hard Red Spring wheat, up 51 percent from last year.

The forecasts in this report are based on August 1 conditions and do not reflect weather effects since that time. The next crop production forecasts, based on conditions as of September 1, will be released on September 12.



*Forecasted August 1, 2018

**Area Harvested, Yield, and Production Summary – Minnesota and United States:
2017 and Forecasted August 1, 2018**

Crop	Area Harvested		Yield per acre		Production	
	2017	2018	2017	2018	2017	2018
	(1,000 acres)	(1,000 acres)			(1,000)	(1,000)
MINNESOTA						
Barley..... bushels	68	67	76.0	80.0	5,168	5,360
Corn..... bushels	7,630	7,400	194.0	191.0	1,480,220	1,413,400
Dry beans ¹ bushels	163.0	167.0	2,190	2,270	3,567	3,791
Hay, alfalfa..... tons	870	890	3.35	3.20	2,915	2,848
Hay, other..... tons	510	510	1.90	2.20	969	1,122
Oats..... bushels	95	120	75.0	69.0	7,125	8,280
Soybeans..... bushels	8,090	7,740	47.0	49.0	380,230	379,260
Sugarbeets..... tons	409.0	390.5	30.6	29.3	12,515	11,442
Wheat, spring..... bushels	1,130	1,560	67.0	63.0	75,710	98,280
UNITED STATES						
Barley..... bushels	1,954	2,046	72.6	76.3	141,923	156,176
Corn..... bushels	82,703	81,770	176.6	178.4	14,604,067	14,586,485
Dry beans ¹ bushels	2,012.7	1,987.0	1,781	1,809	35,845	35,938
Hay, alfalfa..... tons	16,563	17,351	3.32	3.33	55,068	57,778
Hay, other..... tons	37,221	37,717	2.05	1.88	76,387	70,726
Oats..... bushels	801	1,009	61.7	65.1	49,391	65,668
Soybeans..... bushels	89,522	88,862	49.1	51.6	4,391,553	4,585,916
Sugarbeets..... tons	1,114.1	1,083.3	31.7	32.5	35,325	35,250
Wheat, spring..... bushels	10,159	12,899	41.0	47.6	416,236	614,154

1. Yield in lbs, production in cwt.

Dry Edible Beans, Area Planted by Commercial Class – Minnesota: 2017 and Forecasted August 1, 2018

Commercial Class	Planted	
	2017	2018
	(1,000 acres)	(1,000 acres)
Navy	41.4	38.0
Pinto	15.9	8.8
Light red kidney	15.8	14.3
Dark red kidney	44.2	53.6
Black	40.5	40.0

U.S. Wheat Supply and Use¹

WHEAT	2016-2017	2017-2018 (Est.)	2018-2019 ² Projections August
	<i>(million bushels)</i>		
Beginning stocks	976	1,181	1,100
Production	2,309	1,741	1,877
Imports	118	157	135
Supply, total	3,402	3,079	3,112
Food	949	964	970
Seed	61	64	62
Feed & residual	161	48	120
Domestic, total	1,171	1,077	1,152
Exports	1,051	901	1,025
Use, total	2,222	1,978	2,177
Ending stocks	1,181	1,100	935
Avg. Farm price (\$/bu)	3.89	4.73	4.60 - 5.60

1. Source: USDA OCE World Agricultural Supply and Demand Estimates Report <http://www.usda.gov/oce/commodity/wasde/index.htm>

2. Preliminary

U.S. Corn Supply and Use¹

CORN	2016-2017	2017-2018 (Est.)	2018-2019 ² Projections August
	<i>(million bushels)</i>		
Beginning stocks	1,737	2,293	2,027
Production	15,148	14,604	14,586
Imports	57	40	50
Supply, total	16,942	16,937	16,664
Feed & residual	5,470	5,450	5,525
Food, seed & industrial	6,885	7,060	7,105
Domestic, total	12,355	12,510	12,630
Exports	2,294	2,400	2,350
Use, total	14,649	14,910	14,980
Ending stocks	2,293	2,027	1,684
Avg. Farm price (\$/bu)	3.36	3.35 - 3.45	3.10 - 4.10

1. Source: USDA OCE World Agricultural Supply and Demand Estimates Report <http://www.usda.gov/oce/commodity/wasde/index.htm>

2. Preliminary

U.S. Soybean Supply and Use¹

SOYBEANS	2016-2017	2017-2018 (Est.)	2018-2019 ² Projections August
	<i>(million bushels)</i>		
Beginning stocks	197	302	430
Production	4,296	4,392	4,586
Imports	22	22	25
Supply, total	4,515	4,715	5,040
Crushings	1,901	2,040	2,060
Exports	2,166	2,110	2,060
Seed	105	104	103
Residual	41	32	33
Use, total	4,214	4,286	4,256
Ending stocks	302	430	785
Avg. Farm price (\$/bu)	9.47	9.35	7.65 - 10.15

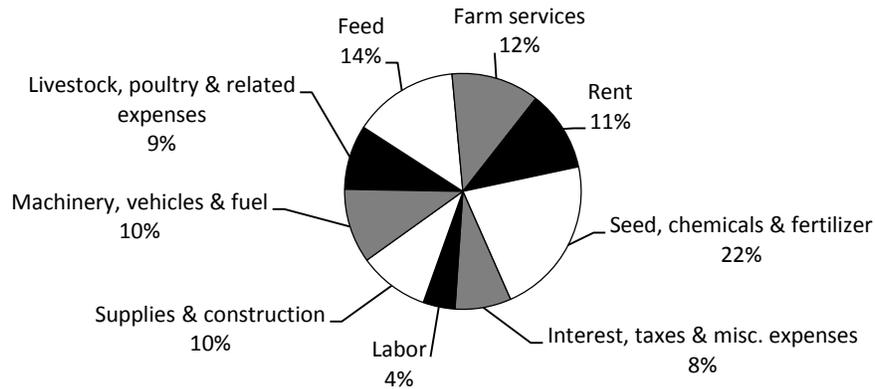
1. Source: USDA OCE World Agricultural Supply and Demand Estimates Report <http://www.usda.gov/oce/commodity/wasde/index.htm>

2. Preliminary

FARM PRODUCTION EXPENDITURES

Minnesota farm production expenditures totaled \$16.7 billion in 2017. This was down 3 percent from the 2016 total expenditures. Feed expense, which decreased 11 percent to \$2.40 billion, represented the largest single production expense in Minnesota in 2017, accounting for 14 percent of the total. Farm Services were the second largest expense, totaling \$2.01 billion and 12 percent of the total. The largest percentage decreases were Miscellaneous Capital Expenses (down 20 percent), Rent expenses (down 13 percent), and Feed expenses (down 11 percent).

FARM PRODUCTION EXPENDITURES, Minnesota, 2017



Farm Production Expenditures – Minnesota: 2016-2017

Expenditure - Farm Share	Farms Reporting ¹		Average per Farm ²		Total Expenditures	
	2016	2017	2016	2017	2016	2017
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Total Farm Production Expenditures ³	100.0	100.0	234,720	228,005	17,205	16,690
Livestock, Poultry and Related Expenses ⁴	24.5	23.0	20,737	20,219	1,520	1,480
Feed	43.3	39.8	36,835	32,787	2,700	2,400
Farm Services ⁵	94.9	95.9	26,194	27,459	1,920	2,010
Rent ⁶	41.6	42.9	28,922	25,273	2,120	1,850
Agricultural Chemicals ⁷	55.4	55.0	9,686	10,792	710	790
Fertilizer, Lime and Soil Conditioners ⁷	54.3	54.0	19,645	18,306	1,440	1,340
Interest	47.8	49.3	7,913	8,470	580	620
Taxes (Real Estate and Property)	100.0	100.0	9,141	8,743	670	640
Labor	28.3	23.4	10,232	9,973	750	730
Fuel	80.3	85.8	7,231	8,470	530	620
Farm Supplies and Repairs ⁸	78.8	81.1	12,551	12,432	920	910
Farm Improvements and Construction ⁹	55.2	53.4	10,095	9,563	740	700
Tractors and Self-Propelled Farm Machinery	14.3	14.0	6,958	7,514	510	550
Other Farm Machinery	21.1	22.3	4,229	5,191	310	380
Seeds and Plants ¹⁰	55.1	56.3	21,828	20,492	1,600	1,500
Trucks and Autos	13.5	14.4	2,183	2,049	160	150
Miscellaneous Capital Expenses	4.2	4.9	341	273	25	20

¹ Number of farms reporting item divided by total number of farms.

² The average per farm is computed by dividing the line-item total expense by the total number of farms at that level. Totals may not add due to rounding.

³ Includes the operator, landlord, and contractor shares of farm production expenses. Totals may not add due to rounding.

⁴ Includes purchases and leasing of livestock and poultry. Intra-state and inter-state transfers of livestock are captured.

⁵ Includes all crop custom work, veterinary custom services, transportation costs, marketing charges, insurance, leasing of machinery and equipment, utilities, general expenses, and miscellaneous business expenses.

⁶ Includes cash rent paid, share rent, plus public and private grazing fees.

⁷ Includes material and application costs.

⁸ Includes bedding and litter, marketing containers, power farm-shop equipment, oils and lubricants, temporary fencing, miscellaneous non-capital equipment and supplies, repairs and maintenance of equipment not depreciated, and other small, non-capital equipment.

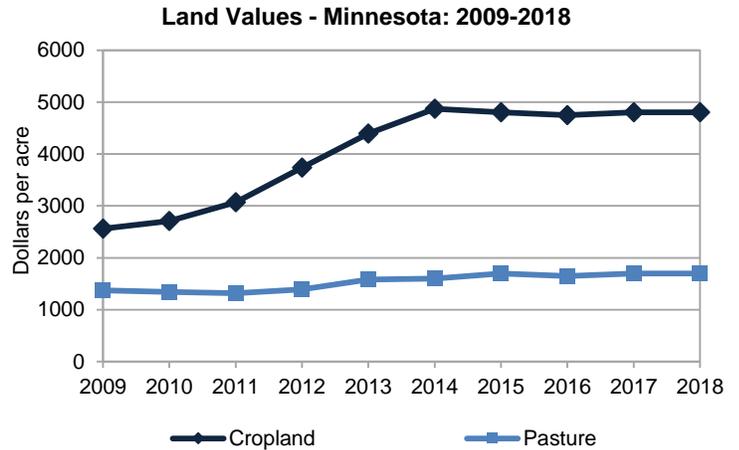
⁹ Includes all expenditures related to new construction or repairs of buildings, fences, operator dwelling (if dwelling is owned by operation), and any improvements to physical structures of land.

¹⁰ All purchases of seed, plants, or seed treatments for nursery and farming operation are included. Bedding plants, nursery stock, and seed purchased for resale are excluded.

LAND VALUES

Minnesota's farm real estate value, a measurement of the value of all land and buildings on farms, averaged \$4,700 per acre. This was down \$50 per acre or 1 percent from last year's level.

Cropland value, at \$4,800 per acre, was unchanged from last year. Pasture value remained unchanged from 2017 at \$1,700 per acre.



Land Values – Minnesota: 2014-2018

Item	2014	2015	2016	2017	2018
Cropland, Average Value (dollars per acre)	4,870	4,800	4,750	4,800	4,800
Pasture, Average Value (dollars per acre).....	1,600	1,700	1,650	1,700	1,700
Farm Real Estate, Average Value (dollars per acre)	4,750	4,700	4,700	4,750	4,700
Value of Farmland and Buildings ¹ (million dollars)	123,025	121,730	121,730	123,025	(NA)

(NA) Not available. 2018 Land in Farms acres used in this calculation will be released in February 2019.

¹ Total value of land and buildings is derived by multiplying average value per acre of farm real estate by the land in farms.

CASH RENTS

Cropland cash rent paid to Minnesota landlords in 2018 averaged \$167.00 per acre. Non-irrigated cropland rent averaged \$166.00 per acre, unchanged from last year. Irrigated cropland rent averaged \$192.00 per acre, up \$7.00 from 2017. Pasture rented for cash averaged \$31.00 per acre, up \$1.00 from the previous year.

Cash Rent – Minnesota: 2013-2017

Item	2014	2015	2016	2017	2018
Cropland, cash rent expense (dollars per acre)	186.00	181.00	170.00	166.00	167.00
Irrigated, cash rent expense (dollars per acre)	210.00	210.00	185.00	185.00	192.00
Non-irrigated, cash rent expense (dollars per acre)	185.00	180.00	170.00	166.00	166.00
Pasture, cash rent expense (dollars per acre)	26.00	28.00	30.00	30.00	31.00

