



WASHINGTON  
AGRICULTURAL  
STATISTICS  
SERVICE

# WASHINGTON'S WHEAT ESTIMATING PROGRAM

U.S. Department of Agriculture  
Washington Agricultural Statistics Service  
P.O. Box 609, Olympia, WA 98507

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**General:** The National Agricultural Statistics Service publishes estimates for winter and spring wheat spanning the crop year. This document shows some of the estimates for the years 1999-2003 and the dates for release of the 2004 estimates. Included are data for:

- . . . the weekly percent of spring wheat and winter wheat and winter wheat seeded, emerged, headed and harvested,
- . . . winter and spring wheat acreage, yield and production by county, and
- . . . winter and spring wheat acreage, production, price and value.

Below is a discussion of how the estimates are prepared.

**Surveys:** The survey data used to estimate wheat comes from a series of probability and nonprobability surveys conducted throughout the year. A general description of a probability survey is one for which every farming operation has a known probability of being selected and when selected, represents a known number of similar operations throughout the state. Probability surveys produce not only indications for a particular category, but an estimated sampling error associated with each of those indications. Survey information is gathered voluntarily from wheat growers across the State of Washington, except for the price data, which are collected from grain elevators. All individual data collected through any of these surveys are held in the strictest confidence and are used only in combination with other reports to generate state and county level estimates.

Acreage estimates for winter wheat start in December and are

updated in March along with the first indication of spring wheat acreage. Acreage is then reviewed using survey data collected in June, with the end-of-year estimates being published in early October.

Yield per acre estimates are based on both data reported by producers, as well as data collected from field observations. Monthly probability yield surveys, conducted from May through August, collect information from producers about their expected yields. Another monthly probability survey, Wheat Objective Yield, collects field observations for winter wheat. Small plots are laid out in about 160 randomly selected fields across the state. Counts are made and clippings are taken for analysis up until harvest. Gross yield per acre and post harvest loss are combined to determine an indication of net yield per acre.

Winter and spring wheat crop progress and conditions are collected and published on a weekly basis throughout the year along with selected weather data. Stocks on hand are estimated four times a year for all wheat. Prices received by farmers are estimated monthly and are then used to derive a market-year average price. County level estimates for acreage, yield, and production are prepared after the annual summary is released in January. Data for the county estimates come from a combination of all the above-mentioned survey data, as well as a very large end-of-the-year acreage and production survey. County Extension Agents and Farm Service Administrators also provide supplemental data.

## Percent Seeded and Emerged, Winter Wheat, Washington, 1999-2003 1/

Activity and Year	SEPTEMBER					OCTOBER				NOVEMBER		
	1	8	15	22	29	6	13	20	27	3	10	17
<b>Seeded</b>												
1999	28	45	59	67	79	84	92	93	95	98	100	-
2000	15	32	40	53	76	91	98	100	-	-	-	-
2001	18	26	54	61	68	80	91	97	99	100	100	100
2002	-	39	65	67	80	90	92	97	99	99	100	100
2003	19	36	45	55	72	76	92	98	99	100	-	-
<b>1999-2003 Average</b>	<b>20</b>	<b>36</b>	<b>53</b>	<b>61</b>	<b>75</b>	<b>84</b>	<b>93</b>	<b>97</b>	<b>98</b>	<b>99</b>	<b>100</b>	<b>100</b>
<b>Emerged</b>												
1999	-	9	25	39	58	63	81	82	87	91	92	97
2000	1	11	19	32	52	68	84	94	98	99	100	-
2001	4	18	33	37	51	64	75	85	90	94	97	99
2002	-	-	-	43	54	65	72	82	90	91	93	95
2003	-	-	-	24	36	40	69	82	85	91	96	97
<b>1999-2003 Average</b>	<b>3</b>	<b>13</b>	<b>26</b>	<b>35</b>	<b>50</b>	<b>60</b>	<b>76</b>	<b>85</b>	<b>90</b>	<b>93</b>	<b>96</b>	<b>97</b>

1/ Available at [www.usda.gov/nass](http://www.usda.gov/nass) every week between April and November, on Tuesdays at 12:00pm ET.

## Winter Wheat: Acreage, Yield, & Production, By Counties, Washington, 2003

County and District	Total Planted	Harvested for Grain								
		Acres			Yield Per Acre			Production		
		Irrigated	Non Irrigated	Total	Irrigated	Non Irrigated	Total	Irrigated	Non Irrigated	Total
<b>COUNTY</b>		Acres			Bushels			Bushels		
Adams	261,000	40,300	212,900	253,200	85.5	47.1	53.2	3,446,000	10,021,000	13,467,000
Asotin	17,800	-	17,400	17,400	-	45.1	45.1	-	785,000	785,000
Benton	99,200	34,600	61,600	96,200	82.0	15.3	39.3	2,837,000	943,000	3,780,000
Columbia	65,200	1/	1/	63,200	1/	1/	71.7	1/	1/	4,530,000
Douglas	154,000	1/	1/	147,000	1/	1/	44.7	1/	1/	6,798,000
Franklin	78,000	1/	1/	75,700	1/	1/	50.9	1/	1/	3,850,000
Garfield	55,200	1/	1/	53,500	1/	1/	56.7	1/	1/	3,032,000
Grant	144,000	44,000	97,100	141,100	116.0	65.3	81.1	5,104,000	6,344,000	11,448,000
Klickitat	29,200	1/	1/	28,400	1/	1/	41.9	1/	1/	1,190,000
Lincoln	297,000	18,700	273,300	292,000	86.1	64.1	65.5	1,610,000	17,520,000	19,130,000
Okanogan	7,500	-	1/	7,100	-	1/	54.2	-	1/	385,000
Spokane	88,900	1/	1/	87,000	1/	1/	71.4	1/	1/	6,212,000
Stevens	4,000	-	1/	3,900	-	1/	56.2	-	1/	219,000
Walla Walla	173,200	10,800	157,000	167,800	99.1	72.8	74.5	1,070,000	11,433,000	12,503,000
Whitman	350,600	1/	1/	343,100	1/	1/	81.9	1/	1/	28,085,000
Yakima	15,000	7,200	7,100	14,300	83.3	53.5	68.5	600,000	380,000	980,000
Other Counties	10,200	17,200	800,800	9,100	103.4	66.3	66.6	1,779,000	53,128,000	606,000
<b>DISTRICTS</b>										
West	8,000	-	7,000	7,000	-	71.1	71.1	-	498,000	498,000
Central	153,000	44,000	10,400	148,000	82.0	27.2	43.5	3,610,000	2,829,000	6,439,000
Northeast	93,000	1,300	89,700	91,000	106.2	70.2	70.7	138,000	6,297,000	6,435,000
East Central	934,000	116,000	793,000	909,000	99.8	54.4	60.2	11,581,000	43,112,000	54,693,000
Southeast	662,000	11,500	633,500	670,500	97.1	75.5	75.9	1,117,000	47,818,000	48,935,000
<b>STATE TOTAL</b>	<b>1,850,000</b>	<b>172,800</b>	<b>1,627,200</b>	<b>1,800,000</b>	<b>95.2</b>	<b>61.8</b>	<b>65.0</b>	<b>16,446,000</b>	<b>100,554,000</b>	<b>117,000,000</b>

- Not applicable.

1/ Included in "Other Counties" category. "Other Counties" is a combination of counties that could not be published, plus the irrigated and non-irrigated practice data that could not be published at the county level.

## Spring Wheat: Acreage, Yield, & Production, By Counties, Washington, 2003

County and District	Total Planted	Harvested for Grain								
		Acres			Yield Per Acre			Production		
		Irrigated	Non Irrigated	Total	Irrigated	Non Irrigated	Total	Irrigated	Non Irrigated	Total
<b>COUNTY</b>		Acres			Bushels			Bushels		
Adams	37,000	12,000	25,000	37,000	77.1	23.0	40.5	925,000	575,000	1,500,000
Asotin	6,000	-	5,900	5,900	-	16.9	16.9	-	100,000	100,000
Benton	28,100	2,000	25,300	27,300	55.0	18.0	20.7	110,000	455,000	565,000
Columbia	27,000	1/	26,900	26,900	1/	37.0	37.0	1/	995,000	995,000
Douglas	30,000	1/	1/	29,900	1/	1/	26.1	1/	1/	780,000
Franklin	14,000	1/	1/	13,900	1/	1/	79.5	1/	1/	1,105,000
Garfield	21,500	1/	1/	21,100	1/	1/	30.6	1/	1/	645,000
Grant	38,000	26,000	11,600	37,600	106.9	26.7	82.2	2,780,000	310,000	3,090,000
Klickitat	19,900	1/	1/	19,800	1/	1/	27.3	1/	1/	540,000
Lincoln	115,000	6,300	108,300	114,600	78.6	29.1	31.8	495,000	3,150,000	3,645,000
Okanogan	3,500	1/	1/	3,400	1/	1/	22.1	1/	1/	75,000
Spokane	39,500	1/	1/	39,300	1/	1/	37.3	1/	1/	1,465,000
Stevens	1,700	-	1,400	1,400	-	20.7	20.7	-	29,000	29,000
Walla Walla	35,500	16,600	17,500	34,100	80.7	43.1	61.4	1,340,000	755,000	2,095,000
Whitman	121,000	1/	1/	120,500	1/	1/	41.0	1/	1/	4,935,000
Yakima	9,500	5,500	4,000	9,500	92.0	24.3	63.5	506,000	97,000	603,000
Other Counties	2,800	13,600	237,100	2,800	96.6	35.5	63.6	1,314,000	8,409,000	178,000
<b>DISTRICTS</b>										
West	500	-	500	500	-	80.0	80.0	-	40,000	40,000
Central	63,000	10,000	52,000	62,000	83.0	20.8	30.8	830,000	1,080,000	1,910,000
Northeast	41,500	500	40,500	41,000	60.0	36.4	36.7	30,000	1,475,000	1,505,000
East Central	234,000	54,000	179,000	233,000	96.9	27.3	43.4	5,230,000	4,890,000	1,012,000
Southeast	211,000	17,500	191,000	208,500	78.9	38.7	42.1	1,380,000	7,390,000	8,770,000
<b>STATE TOTAL</b>	<b>550,000</b>	<b>82,000</b>	<b>463,000</b>	<b>545,000</b>	<b>91.1</b>	<b>32.1</b>	<b>41.0</b>	<b>7,470,000</b>	<b>14,875,000</b>	<b>22,345,000</b>

- Not applicable.

1/ Included in "Other Counties" category. "Other Counties" is a combination of counties that could not be published, plus the irrigated and non-irrigated practice data that could not be published at the county level.

### Percent Seeded and Emerged, Spring Wheat, Washington, 1999-2003

Activity and Year	March	APRIL				MAY			
	31	7	14	21	28	5	12	19	26
<b>Seeded</b>									
1999	21	47	62	72	87	96	98	100	-
2000	25	47	67	84	91	97	100	-	-
2001	17	36	50	64	78	89	98	100	100
2002	25	39	58	70	80	90	94	97	100
2003	27	39	57	69	88	96	98	99	100
<b>1999-2003 Average</b>	<b>23</b>	<b>42</b>	<b>59</b>	<b>72</b>	<b>85</b>	<b>94</b>	<b>98</b>	<b>99</b>	<b>100</b>
<b>Emerged</b>									
1999	4	11	29	49	61	76	87	94	-
2000	-	13	31	48	63	81	89	96	-
2001	6	13	17	29	47	65	81	91	98
2002	-	-	-	-	50	65	71	91	95
2003	3	9	15	28	57	70	84	90	97
<b>1999-2003 Average</b>	<b>4</b>	<b>12</b>	<b>23</b>	<b>39</b>	<b>56</b>	<b>71</b>	<b>82</b>	<b>92</b>	<b>97</b>

### Percent Headed, Winter and Spring Wheat, Washington, 1999-2003

Activity and Year	MAY				JUNE					JULY	
	5	12	19	26	2	9	16	23	30	7	14
<b>Headed</b>	<b>WINTER WHEAT</b>										
1999	-	1	4	13	44	73	93	99	100	-	-
2000	3	7	20	45	60	86	92	98	100	-	-
2001	3	6	14	31	41	71	90	97	100	-	-
2002	3	5	6	25	28	50	76	94	100	-	-
<b>2003</b>	<b>3</b>	<b>5</b>	<b>12</b>	<b>19</b>	<b>37</b>	<b>66</b>	<b>85</b>	<b>98</b>	<b>100</b>	-	-
<b>1999-2003 Average</b>	<b>3</b>	<b>5</b>	<b>11</b>	<b>27</b>	<b>42</b>	<b>69</b>	<b>87</b>	<b>97</b>	<b>100</b>	-	-
<b>Headed</b>	<b>SPRING WHEAT</b>										
1999	-	-	-	-	2	29	52	69	82	95	99
2000	-	-	-	2	15	40	69	72	82	92	100
2001	-	-	-	2	12	29	52	72	80	92	99
2002	-	-	-	-	-	-	43	55	82	98	100
2003	-	-	-	2	12	14	33	60	89	99	100
<b>1999-2003 Average</b>	-	-	-	<b>2</b>	<b>10</b>	<b>28</b>	<b>50</b>	<b>66</b>	<b>83</b>	<b>95</b>	<b>100</b>

### Percent Harvested, Winter and Spring Wheat, Washington, 1999-2003

Activity and Year	JULY			AUGUST				SEPTEMBER			
	14	21	28	4	11	18	25	1	8	15	22
<b>Harvested</b>	<b>WINTER WHEAT</b>										
1999	2	8	18	34	45	66	84	95	100	-	-
2000	7	16	35	56	79	92	98	100	-	-	-
2001	4	6	17	41	55	79	96	98	99	100	-
2002	2	8	16	39	60	70	93	98	99	100	-
2003	3	10	19	45	68	84	94	99	100	-	-
<b>1999-2003 Average</b>	<b>4</b>	<b>10</b>	<b>21</b>	<b>43</b>	<b>61</b>	<b>78</b>	<b>93</b>	<b>98</b>	<b>100</b>	<b>100</b>	<b>-</b>
<b>Harvested</b>	<b>SPRING WHEAT</b>										
1999	-	1	4	7	18	35	54	83	95	98	100
2000	-	3	12	29	52	75	91	95	99	100	-
2001	1	4	13	20	29	55	68	90	96	100	-
2002	-	-	-	15	30	55	75	94	99	100	-
2003	-	3	7	21	44	73	90	99	99	100	-
<b>1999-2003 Average</b>	<b>-</b>	<b>3</b>	<b>9</b>	<b>18</b>	<b>35</b>	<b>59</b>	<b>76</b>	<b>92</b>	<b>98</b>	<b>100</b>	<b>100</b>

### Wheat: Acreage, Production, Price, and Value, Washington, 1999-2003

Crop And Year	Acreage		Yield Per Acre	Production	Avg. Price Per Unit	Value of Production	Value Per Harv. Acre
	Planted	Harvested					
	1,000 Acres	Bushels	1,000 Bushels	\$ Per Bushel	\$1,000	\$ Per Acre	
<b>Wheat, Winter</b>							
1999	1,900	1,670	58	96,860	2.72	263,459	158
2000	1,850	1,800	73	131,400	2.62	344,268	191
2001	1,850	1,750	61	106,750	3.19	340,533	195
2002	1,850	1,800	58	104,400	4.10	428,040 1/	238
<b>2003</b>	<b>1,850</b>	<b>1,800</b>	<b>65</b>	<b>117,000</b>	<b>3.75</b>	<b>438,750</b>	<b>244</b>
<b>Wheat, Spring</b>							
1999	625	620	44	27,280	3.00	81,840	132
2000	625	620	54	33,480	2.96	99,101	160
2001	610	600	41	24,600	3.38	83,148 1/	139
2002	600	590	43	25,370	4.30	109,091 1/	185
<b>2003</b>	<b>550</b>	<b>545</b>	<b>41</b>	<b>22,345</b>	<b>4.00</b>	<b>89,380</b>	<b>164</b>
<b>Wheat, All</b>							
1999	2,525	2,290	54.2	124,140	2.77	345,299	151
2000	2,475	2,420	68.1	164,880	2.70	443,369	183
2001	2,460	2,350	55.9	131,350	3.23	424,261 1/	181
2002	2,450	2,390	54.3	129,770	4.10	532,057 1/	223
<b>2003</b>	<b>2,400</b>	<b>2,345</b>	<b>59.4</b>	<b>139,345</b>	<b>3.80</b>	<b>528,130</b>	<b>225</b>

1/ Preliminary. Final data to be published October 15, 2004.

## Wheat Estimating Program for Washington, 2004 Crop

DATE	REPORT	WINTER WHEAT			SPRING WHEAT		
		Planted Acreage	Harvested Acreage	Yield/ Production	Planted Acreage	Harvested Acreage	Yield/ Production
1/12/04	Winter Wheat Seedings	X					
3/31/04	Prospective Plantings	X			X		
5/12/04	Crop Production	X	X	X			
6/11/04	Crop Production	X	X	X			
6/30/04	Acreage Report	X	X		X		
7/11/04	Wheat Variety Report	1/			1/		
7/12/04	Crop Production	X	X	X	X	X	X
8/12/04	Crop Production	X	X	X	X	X	X
9/30/04	Small Grains Annual Report	X	X	X	X	X	X
1/05	Annual Summary	X	X	X	X	X	X
3/04	County Estimates	2/	2/	2/	2/	2/	2/

Estimate not made for shaded areas. Unless noted, all estimates are at the state level.

1/ Estimates made for Agricultural Statistics Districts, by variety, preliminary planted acreage by county.

2/ Estimates made for Counties.

<u>ALL WHEAT</u>	<u>REFERENCE DATE</u>	<u>DATE RELEASED</u>	<u>REPORT</u>	<u>LEVEL</u>
Stocks	December 1	January 12, 2004	Grain Stocks	State
	March 1	March 31, 2004	Grain Stocks	State
	June 1	June 30, 2004	Grain Stocks	State
	September 1	September 30, 2004	Grain Stocks	State

Production by Class - U.S. level only corresponding to Crop Production: State Data in Annual Summary

Prices	Mid-month*	Last Work Day of Month	Agricultural Prices	State/National
	Full-month**			
	Marketing Year Average	July 30, 2004	Agricultural Prices	State/National

\* Mid-month prices should reflect the average price received by farmers during the 14th-17th of the current month.

\*\* Full month prices should reflect the average price received by farmers for the entire previous month for all methods of sales.