

**Table 1. Acreage planted, acreage treated and percentage of planted acreage treated with pesticides in surveyed crops, North Dakota, 2008.**

Crop	Acres Planted <sup>1</sup>	Pesticide-treated Acres <sup>2</sup>											
		Total		On-farm		Herbicide		Insecticide		Fungicide		Desiccants	
		Treated Seed	%	Treated Seed	%	1000	%	1000	%	1000	%	1000	%
Wheat	9230	4022.3	43.6	3358.1	36.4	8828.2	95.6	682.5	7.4	3765.3	40.8	581.1	6.3
Barley	1650	812.1	49.2	710.1	43.0	1531.7	92.8	47.8	2.9	539.0	32.7	17.8	1.1
Oat	320	9.9	3.1	8.4	2.6	134.5	42.0	0.6	0.2	7.4	2.3	3.7	1.2
Corn	2550	2367	92.8	33.2	1.3	2488.5	97.6	85.7	3.4	101.9	4.0	0.1	.
Soybean	3800	2125.4	55.9	294.3	7.7	3751.2	98.7	2200.4	57.9	432.8	11.4	0.8	.
Dry bean	660	599.8	90.9	18.7	2.8	656.1	99.4	53.8	8.1	263.1	39.9	246.5	37.3
Field pea	520	101.6	19.5	82.3	15.8	484.7	93.2	31.1	6.0	77.2	14.8	152.1	29.2
Lentil	95	23.8	25.0	15.9	16.7	84.2	88.6	23.5	24.7	10.0	10.5	62.2	65.5
Sunflower	1115	1027.3	92.1	19.7	1.8	1037.7	93.1	674.2	60.5	264.5	23.7	100.5	9.0
Safflower	21.9	11.7	53.6	3.0	13.7	16.9	77.4	.	.	1.4	6.4	.	.
Flax	335	4.6	1.4	2.7	0.8	308.8	92.2	3.3	1.0	2.7	0.8	122.5	36.6
Canola	910	728.1	80.0	18.6	2.0	886.0	97.2	27.7	3.0	172.2	18.9	21.0	2.3
Crambe	0.22	.	.	.	.	.	.	.	.	.	.	.	.
Mustard	37.3	21.1	56.4	.	.	10.0	26.9	.	.	.	.	.	.
Sugarbeet	208	184.3	88.6	5.9	2.8	198.4	95.4	92.2	44.3	173.3	83.3	.	.
Potato	82	47.7	58.2	47.7	58.2	43.4	52.9	57.8	70.5	64.8	79.0	64.8	79.0
Alfalfa	1660	.	.	.	.	7.5	0.5	7.1	0.4	.	.	.	.
Other hay	1560	.	.	.	.	37.0	2.4	.	.	.	.	.	.
CRP <sup>3</sup>	3013	.	.	.	.	390.9	13.0	0.1	.	.	.	.	.
Pasture	10419	.	.	.	.	213.1	2.0	4.4	.	0.5	.	.	.
Fallow	723	.	.	.	.	258.2	35.7	.	.	.	.	.	.
Total	38909.4	12086.7	31.1	4618.5	11.9	21367.1	54.9	3992.2	10.3	5876.1	15.1	1373.0	3.5

<sup>1</sup> Preliminary estimates by the National Agricultural Statistics Service with the following exceptions: Pasture acreage was taken from the 2007 census. Acreage for mustard, safflower, crambe, summer fallow and CRP were taken from Farm Service Agency data. All other crop acreages have been published by NASS at the district level.

<sup>2</sup> Multiple applications to the same acreage were totaled as one application within a pesticide group, . = no data reported.

<sup>3</sup> CRP represents acres in the Conservation Reserve Program.

**Table 2. Acreage planted, acreage treated and percentage of planted acreage treated with pesticides in surveyed crops from reporting districts of North Dakota, 2008.**

Districts	Acres Planted <sup>1</sup>	Pesticide-treated Acres <sup>2</sup>											
		Total		On-farm		Herbicide		Insecticide		Fungicide		Desiccants	
		Treated Seed	%	Treated Seed	%	1000	%	1000	%	1000	%	1000	%
Northwest	5043.2	1145.3	22.7	834.5	16.5	3152.1	62.5	209.9	4.2	824.0	16.3	290.8	5.8
North Central	3767.0	1257.0	33.4	636.2	16.9	2259.2	60.0	322.1	8.6	539.7	14.3	116.3	3.1
Northeast	4689.2	2553.2	54.4	958.0	20.4	3829.9	81.7	857.4	18.3	1879.5	40.1	595.2	12.7
West Central	4147.0	611.8	14.8	376.2	9.1	1434.6	34.6	72.9	1.8	231.5	5.6	44.7	1.1
Central	3957.8	1309.1	33.1	322.8	8.2	2254.1	57.0	477.7	12.1	499.2	12.6	109.2	2.8
East Central	2657.7	1571.8	59.1	220.7	8.3	2142.5	80.6	915.3	34.4	318.9	12.0	46.2	1.7
Southwest	4769.5	883.1	18.5	767.2	16.1	1457.0	30.5	83.6	1.8	560.9	11.8	16.6	0.3
South Central	4573.6	445.1	9.7	86.3	1.9	1300.3	28.4	175.8	3.8	292.9	6.4	11.5	0.3
Southeast	3802.4	1562.7	41.1	53.3	1.4	2264.8	59.6	666.2	17.5	169.6	4.5	13.9	0.4
Comb. Districts <sup>3</sup>	1502.0	747.6	49.8	363.6	24.2	1272.5	84.7	211.3	14.1	559.8	37.3	128.6	8.6
Total	38909.4	12086.7	31.1	4618.5	11.9	21367.1	54.9	3992.2	10.3	5876.1	15.1	1373.0	3.5

<sup>1</sup> Preliminary estimates by the National Agricultural Statistics Service with the following exceptions: Pasture acreage was taken from the 2007 census. Acreage for mustard, safflower, crambe, summer fallow and CRP were taken from Farm Service Agency data. All other crop acreages have been published by NASS at the district level.

<sup>2</sup> Multiple applications to the same acreage were totaled as one application within a pesticide group.

<sup>3</sup> Data published in combined districts to avoid disclosure of individual operations.

**Table 3. Acreage planted, acreage treated and percentage of planted acreage treated with pesticides, by crop, from reporting districts in North Dakota, 2008.**

Crop/District	Acres Planted <sup>1</sup>	Pesticide-treated Acres <sup>2</sup>											
		Total		On-farm		Herbicide		Insecticide		Fungicide		Desiccants	
		Treated Seed	%	Treated Seed	%	1000	%	1000	%	1000	%	1000	%
<b>Wheat</b>		1000		1000		1000		1000		1000		1000	
Northwest	2025	633.6	31.3	586.7	29.0	1922.0	94.9	109.5	5.4	599.5	29.6	61.1	3.0
North Central	880	461.4	52.4	419.5	47.7	846.2	96.2	59.2	6.7	319.9	36.4	45.7	5.2
Northeast	1614	952.4	59.0	714.4	44.3	1566.9	97.1	250.3	15.5	1028.3	63.7	290.8	18.0
West Central	977	321.8	32.9	296.2	30.3	911.7	93.3	30.0	3.1	182.8	18.7	3.0	0.3
Central	701	275.8	39.3	217.2	31.0	674.5	96.2	53.2	7.6	314.2	44.8	70.6	10.1
Southwest	1230	745.9	60.6	718.0	58.4	1167.0	94.9	72.8	5.9	553.7	45.0	4.8	0.4
South Central	759	93.7	12.3	68.1	9.0	730.8	96.3	22.8	3.0	229.4	30.2	4.6	0.6
Combined East Central and Southeast Districts	1044	537.8	51.5	337.9	32.4	1009.1	96.7	84.7	8.1	537.4	51.5	100.6	9.6
<b>Total</b>	<b>9230</b>	<b>4022.3</b>	<b>43.6</b>	<b>3358.1</b>	<b>36.4</b>	<b>8828.2</b>	<b>95.6</b>	<b>682.5</b>	<b>7.4</b>	<b>3765.3</b>	<b>40.8</b>	<b>581.1</b>	<b>6.3</b>
<b>Barley</b>													
Northwest	328	176.0	53.7	175.0	53.3	305.4	93.1	11.6	3.5	157.4	48.0	.	.
North Central	393	206.6	52.6	195.8	49.8	383.6	97.6	14.0	3.6	91.2	23.2	12.6	3.2
Northeast	282	159.5	56.6	133.7	47.4	272.0	96.5	1.4	0.5	117.7	41.7	.	.
West Central	164	64.7	39.4	56.9	34.7	133.3	81.3	.	.	32.6	19.9	1.4	0.9
Central	193	91.8	47.6	71.1	36.8	185.7	96.2	12.7	6.6	64.5	33.4	3.8	1.9
East Central	55	39.6	72.0	15.1	27.4	54.4	99.0	1.8	3.3	21.7	39.4	.	.
Southwest	95	48.0	50.5	43.6	45.9	64.9	68.3	6.2	6.5	7.1	7.5	.	.
South Central	102	18.4	18.0	16.7	16.4	100.1	98.1	.	.	38.3	37.6	.	.
Southeast	38	7.6	19.9	2.2	5.8	32.3	84.9	.	.	8.5	22.2	.	.
<b>Total</b>	<b>1650</b>	<b>812.1</b>	<b>49.2</b>	<b>710.1</b>	<b>43.0</b>	<b>1531.7</b>	<b>92.8</b>	<b>47.8</b>	<b>2.9</b>	<b>539.0</b>	<b>32.7</b>	<b>17.8</b>	<b>1.1</b>
<b>Oat</b>													
Northwest	25.0	1.2	5.0	1.2	5.0	10.6	42.4	.	.	.	.	.	.
North Central	32.0	2.7	8.4	1.2	3.7	23.1	72.1	.	.	1.6	5.2	3.7	11.7
Northeast	7.0	0.5	7.6	0.5	7.6	1.7	24.4	.	.	.	.	.	.
West Central	63.0	.	.	.	.	11.9	19.0	.	.	.	.	.	.
Central	33.5	0.4	1.3	0.4	1.3	19.5	58.1	.	.	1.0	3.1	.	.
East Central	3.5	2.5	72.5	2.5	72.5	3.5	100.0	.	.	1.8	50.7	.	.
Southwest	39.0	1.0	2.6	1.0	2.6	14.2	36.5	.	.	0.2	0.4	.	.
South Central	95.0	1.5	1.5	1.5	1.5	41.2	43.4	0.6	0.6	1.9	2.0	.	.
Southeast	22.0	.	.	.	.	8.7	39.6	.	.	0.9	4.2	.	.
<b>Total</b>	<b>320.0</b>	<b>9.9</b>	<b>3.1</b>	<b>8.4</b>	<b>2.6</b>	<b>134.5</b>	<b>42.0</b>	<b>0.6</b>	<b>0.2</b>	<b>7.4</b>	<b>2.3</b>	<b>3.7</b>	<b>1.2</b>
<b>Corn</b>													
Northwest	22	21.7	98.5	.	.	21.7	98.5	.	.	.	.	.	.
North Central	114	94.3	82.7	0.2	0.1	112.7	98.6	1.7	1.5	.	.	.	.
Northeast	280	264.8	94.6	.	.	274.8	98.1	1.7	0.6	26.6	9.5	.	.
West Central	63	63.0	100.0	.	.	62.1	98.6	.	.	.	.	.	.
Central	315	298.1	94.6	.	.	309.1	98.1	.	.	12.5	4.0	0.1	0.0
East Central	680	623.5	91.7	32.3	4.8	666.0	97.9	29.4	4.3	34.8	5.1	.	.
Southwest	58	50.1	86.5	0.8	1.3	57.8	99.6	3.9	6.7	.	.	.	.
South Central	148	141.5	95.6	.	.	136.8	92.4	0.9	0.6	.	.	.	.
Southeast	870	810.0	93.1	.	.	847.8	97.5	48.1	5.5	28.0	3.2	.	.
<b>Total</b>	<b>2550</b>	<b>2367.0</b>	<b>92.8</b>	<b>33.2</b>	<b>1.3</b>	<b>2488.7</b>	<b>97.6</b>	<b>85.7</b>	<b>3.4</b>	<b>101.9</b>	<b>4.0</b>	<b>0.1</b>	<b>0.0</b>
<b>Soybean</b>													
Northwest	20.8	20.8	100.0	.	.	20.8	100.0	11.2	54.1	.	.	.	.
North Central	171.0	99.8	58.4	7.0	4.1	168.0	98.3	73.7	43.1	19.0	11.1	.	.
Northeast	560.0	246.2	44.0	48.1	8.6	556.7	99.4	368.8	65.9	114.3	20.4	.	.
Central	680.0	402.1	59.1	21.4	3.2	674.9	99.3	348.9	51.3	55.3	8.1	0.8	0.1
East Central	1230.0	732.0	59.5	166.8	13.6	1203.0	97.8	835.3	67.9	147.3	12.0	.	.
South Central	28.0	3.9	14.0	.	.	28.0	100.0	1.3	4.6	3.9	13.8	.	.
Southeast	1105.0	620.6	56.2	51.0	4.6	1094.6	99.1	561.2	50.8	93.1	8.4	.	.
Combined WC, SE Dist.	5.2	.	.	.	.	5.0	96.2	.	.	.	.	.	.
<b>Total</b>	<b>3800.0</b>	<b>2125.4</b>	<b>55.9</b>	<b>294.3</b>	<b>7.7</b>	<b>3751.2</b>	<b>98.7</b>	<b>2200.4</b>	<b>57.9</b>	<b>432.8</b>	<b>11.4</b>	<b>0.8</b>	<b>0.0</b>

**Table 3. Continued.**

Crop/District	Acres Planted <sup>1</sup>	Pesticide-treated Acres <sup>2</sup>											
		Total		On-farm		Herbicide		Insecticide		Fungicide		Desiccants	
		Treated Seed	%	Treated Seed	%	1000	%	1000	%	1000	%	1000	%
<b>Dry bean</b>													
Northwest	6.7	5.8	87.0	4.6	68.3	6.7	100.0	6.7	99.4	4.6	68.3	5.4	80.7
North Central	43.5	43.0	98.9	.	.	43.3	99.5	.	.	0.7	1.7	15.3	35.1
Northeast	391.0	346.4	88.6	7.4	1.9	387.9	99.2	17.4	4.5	184.4	47.2	185.7	47.5
Central	72.0	72.0	100.0	4.3	6.0	72.0	100.0	.	.	6.5	9.1	7.8	10.9
East Central	93.0	88.5	95.1	.	.	93.0	100.0	16.8	18.0	61.4	66.1	26.6	28.6
Southeast	30.5	23.0	75.5	.	.	30.0	98.2	12.9	42.4	5.4	17.8	5.6	18.5
Combined WC, SW and SC Districts	23.3	21.1	90.4	2.4	10.3	23.3	100.0	.	.	.	.	.	.
<b>Total</b>	<b>660.0</b>	<b>599.8</b>	<b>90.9</b>	<b>18.7</b>	<b>2.8</b>	<b>656.1</b>	<b>99.4</b>	<b>53.8</b>	<b>8.1</b>	<b>263.1</b>	<b>39.9</b>	<b>246.5</b>	<b>37.3</b>
<b>Field pea</b>													
Northwest	298.0	51.1	17.2	46.0	15.4	288.3	96.7	30.7	10.3	50.7	17.0	103.4	34.7
North Central	59.0	12.1	20.6	8.5	14.4	59.0	100.0	.	.	13.1	22.2	16.0	27.1
Northeast	15.4	3.6	23.2	0.7	4.6	15.4	100.0	.	.	4.8	31.2	2.5	16.4
West Central	84.0	25.6	30.5	20.3	24.2	76.1	90.6	.	.	4.9	5.8	12.9	15.4
Central	13.4	8.9	66.7	6.6	49.1	6.8	50.9	.	.	3.8	28.1	11.5	86.0
Southwest	28.0	.	.	.	.	22.3	79.6	.	.	.	.	5.7	20.4
South Central	16.7	.	.	.	.	13.7	82.0	0.4	2.4	.	.	.	.
Combined East Central and Southeast Districts	5.5	0.2	3.5	0.2	3.5	3.1	56.2	.	.	.	.	.	.
<b>Total</b>	<b>520.0</b>	<b>101.6</b>	<b>19.5</b>	<b>82.3</b>	<b>15.8</b>	<b>484.7</b>	<b>93.2</b>	<b>31.1</b>	<b>6.0</b>	<b>77.2</b>	<b>14.8</b>	<b>152.1</b>	<b>29.2</b>
<b>Lentil</b>													
Northwest	80.5	23.8	29.5	15.9	19.7	77.7	96.5	22.0	27.4	10.0	12.4	57.1	71.0
Southwest	6.1	.	.	.	.	.	.	.	.	.	.	.	.
Combined NC, NE, C, WC, EC, SC and SE Districts	8.4	.	.	.	.	6.5	77.4	1.4	17.2	.	.	5.1	60.2
<b>Total</b>	<b>95.0</b>	<b>23.8</b>	<b>25.0</b>	<b>15.9</b>	<b>16.7</b>	<b>84.2</b>	<b>88.6</b>	<b>23.5</b>	<b>24.7</b>	<b>10.0</b>	<b>10.5</b>	<b>62.2</b>	<b>65.5</b>
<b>Sunflower</b>													
North Central	246.0	213.1	86.6	.	.	238.5	97.0	164.5	66.9	90.5	36.8	2.7	1.1
Northeast	140.5	127.0	90.4	1.6	1.1	134.7	95.8	71.1	50.6	54.4	38.7	37.0	26.3
West Central	88.5	79.1	89.4	.	.	79.1	89.4	42.9	48.5	7.0	7.9	.	.
Central	125.5	123.7	98.6	.	.	106.6	85.0	61.7	49.2	41.5	33.0	8.2	6.6
East Central	43.0	43.0	100.0	2.2	5.1	36.7	85.5	26.1	60.8	18.5	43.0	19.6	45.6
South Central	204.0	186.2	91.3	.	.	185.5	90.9	146.4	71.7	19.4	9.5	6.9	3.4
Southeast	87.5	79.4	90.8	.	.	81.5	93.1	38.5	44.0	15.9	18.2	8.3	9.4
Combined Northwest and Southwest Districts	180.0	175.7	97.6	15.9	8.8	175.1	97.3	123.1	68.4	17.3	9.6	17.8	9.9
<b>Total</b>	<b>1115.0</b>	<b>1027.3</b>	<b>92.1</b>	<b>19.7</b>	<b>1.8</b>	<b>1037.7</b>	<b>93.1</b>	<b>674.2</b>	<b>60.5</b>	<b>264.5</b>	<b>23.7</b>	<b>100.5</b>	<b>9.0</b>
<b>Safflower</b>													
Northwest	4.7	2.0	43.2	.	.	2.0	43.2	.	.	.	.	.	.
Southwest	10.8	3.6	33.3	1.6	14.8	8.8	81.5	.	.	.	.	.	.
Combined NC, NE, C, WC, SC, EC and SE Districts	6.3	6.1	96.8	1.4	22.2	6.1	96.8	.	.	1.4	22.2	.	.
<b>Total</b>	<b>21.8</b>	<b>11.7</b>	<b>53.8</b>	<b>3.0</b>	<b>13.8</b>	<b>16.9</b>	<b>77.7</b>	<b>.</b>	<b>.</b>	<b>1.4</b>	<b>6.4</b>	<b>.</b>	<b>.</b>

**Table 3. Continued.**

Crop/District	Acres Planted <sup>1</sup>	Pesticide-treated Acres <sup>2</sup>											
		Total		On-farm		Herbicide		Insecticide		Fungicide		Desiccants	
		Treated seed	Treated seed	Treated seed	Treated seed	1000	%	1000	%	1000	%	1000	%
<b>Flax</b>		1000	%	1000	%	1000	%	1000	%	1000	%	1000	%
Northwest	126.0	.	.	.	.	124.7	99.0	.	.	0.5	0.4	63.8	50.6
North Central	44.5	0.5	1.1	.	.	42.2	94.8	2.2	5.0	.	.	14.2	32.0
Northeast	25.8	0.9	3.6	0.9	3.6	25.5	98.9	.	.	.	.	5.4	21.0
West Central	56.0	1.5	2.6	.	.	54.4	97.1	.	.	2.2	3.9	27.4	48.9
Central	48.7	1.7	3.5	1.7	3.5	37.4	76.9	1.0	2.2	.	.	6.3	12.9
Southwest	9.3	.	.	.	.	7.9	85.2	.	.	.	.	3.9	42.4
South Central	18.6	.	.	.	.	14.4	77.6	.	.	.	.	.	.
Combined East Central and Southeast Districts	6.1	.	.	.	.	2.3	37.1	.	.	.	.	1.4	23.4
<b>Total</b>	<b>335.0</b>	<b>4.6</b>	<b>1.4</b>	<b>2.7</b>	<b>0.8</b>	<b>308.8</b>	<b>92.2</b>	<b>3.3</b>	<b>1.0</b>	<b>2.7</b>	<b>0.8</b>	<b>122.5</b>	<b>36.6</b>
<b>Canola</b>													
Northwest	223.0	189.1	84.8	5.1	2.3	220.8	99.0	18.1	8.1	1.3	0.6	.	.
North Central	166.0	123.6	74.4	4.1	2.4	163.3	98.4	5.7	3.4	3.6	2.1	6.1	3.7
Northeast	352.0	287.1	81.6	4.6	1.3	341.9	97.1	3.9	1.1	165.8	47.1	12.8	3.6
West Central	78.0	56.1	72.0	2.7	3.5	78.0	100.0	.	.	1.6	2.0	.	.
Central	34.5	34.5	100.0	.	.	34.5	100.0	.	.	.	.	.	.
East Central	4.5	3.2	71.7	.	.	4.5	100.0	.	.	.	.	.	.
Southwest	43.0	34.4	80.1	2.2	5.0	43.0	100.0	.	.	.	.	2.2	5.0
Combined South Central and Southeast Districts	9.0	.	.	.	.	.	.	.	.	.	.	.	.
<b>Total</b>	<b>910.0</b>	<b>728.1</b>	<b>80.0</b>	<b>18.6</b>	<b>2.0</b>	<b>886.0</b>	<b>97.4</b>	<b>27.7</b>	<b>3.0</b>	<b>172.2</b>	<b>18.9</b>	<b>21.0</b>	<b>2.3</b>
<b>Mustard</b>													
Northwest	23.3	20.1	86.1	.	.	9.9	42.6	.	.	.	.	.	.
West Central	7.3	.	.	.	.	.	.	.	.	.	.	.	.
Southwest	3.2	.	.	.	.	.	.	.	.	.	.	.	.
Combined NC, NE, C, EC, SC and SE Districts	3.5	1.0	28.6	.	.	0.1	2.9	.	.	.	.	.	.
<b>Total</b>	<b>37.3</b>	<b>21.1</b>	<b>56.4</b>	.	.	<b>10.0</b>	<b>26.9</b>	.	.	.	.	.	.
<b>Crambe</b>													
Northwest	0.2	.	.	.	.	.	.	.	.	.	.	.	.
All other districts combined	.	.	.	.	.	.	.	.	.	.	.	.	.
<b>Total</b>	<b>0.2</b>	.	.	.	.	.	.	.	.	.	.	.	.
<b>Sugarbeet</b>													
Northeast	127.0	120.6	95.0	2.1	1.6	126.1	99.3	83.4	65.7	122.1	96.1	.	.
East Central	43.5	39.4	90.6	1.7	3.9	43.5	100.0	5.4	12.5	33.4	76.9	.	.
Southeast	29.2	22.2	75.9	.	.	26.7	91.3	1.2	4.1	17.8	60.8	.	.
Combined NW, NC, WC, C, SW and SC Districts	8.3	2.1	25.3	2.1	25.3	2.1	25.3	2.1	25.3	.	.	.	.
<b>Total</b>	<b>208.0</b>	<b>184.3</b>	<b>88.6</b>	<b>5.9</b>	<b>2.8</b>	<b>198.4</b>	<b>95.4</b>	<b>92.2</b>	<b>44.3</b>	<b>173.3</b>	<b>83.3</b>	.	.
<b>Potato</b>													
Northeast	61.1	44.0	72.1	44.0	72.1	39.7	64.9	57.8	94.6	61.1	100.0	61.1	100.0
Central	8.5	.	.	.	.	.	.	.	.	.	.	.	.
Southeast	5.2	.	.	.	.	.	.	.	.	.	.	.	.
Combined NW, NC, WC, EC, SW and SC Districts	7.2	3.7	51.4	3.7	51.4	3.7	51.4	.	.	3.7	51.4	3.7	54.4
<b>Total</b>	<b>82.0</b>	<b>47.7</b>	<b>58.2</b>	<b>47.7</b>	<b>58.2</b>	<b>43.4</b>	<b>52.9</b>	<b>57.8</b>	<b>70.5</b>	<b>64.8</b>	<b>79.0</b>	<b>64.8</b>	<b>79.0</b>

**Table 3. Continued.**

Crop/District	Acres Planted <sup>1</sup>	Pesticide-treated Acres <sup>2</sup>											
		Total		On-farm		Herbicide		Insecticide		Fungicide		Desiccants	
		Treated seed	Treated seed	Treated seed	Treated seed	Treated seed	Treated seed	Treated seed	Treated seed	Treated seed	Treated seed	Treated seed	Treated seed
	1000	%	1000	%	1000	%	1000	%	1000	%	1000	%	
<b>Alfalfa</b>													
Northwest	160	.	.	.	.	0.1	0.0	.	.	.	.	.	
North Central	129	.	.	.	.	1.5	1.2	0.5	0.4	.	.	.	
Northeast	35	.	.	.	.	.	.	1.7	4.8	.	.	.	
West Central	239	.	.	.	.	1.0	0.4	.	.	.	.	.	
Central	223	.	.	.	.	1.4	0.6	.	.	.	.	.	
East Central	46	.	.	.	.	1.0	2.2	.	.	.	.	.	
Southwest	307	.	.	.	.	0.3	0.1	0.6	0.2	.	.	.	
South Central	358	.	.	.	.	1.3	0.4	.	.	.	.	.	
Southeast	163	.	.	.	.	1.0	0.6	4.3	2.6	.	.	.	
Total	1660	.	.	.	.	7.5	0.5	7.1	0.4	.	.	.	
<b>Other hay</b>													
Northwest	146	.	.	.	.	1.1	0.8	.	.	.	.	.	
North Central	274	.	.	.	.	12.6	4.6	.	.	.	.	.	
Northeast	60	.	.	.	.	0.8	1.3	.	.	.	.	.	
West Central	234	.	.	.	.	2.3	1.0	.	.	.	.	.	
Central	193	.	.	.	.	6.5	3.4	.	.	.	.	.	
East Central	38	.	.	.	.	0.3	0.9	.	.	.	.	.	
Southwest	188	.	.	.	.	6.2	3.3	.	.	.	.	.	
South Central	264	.	.	.	.	6.3	2.4	.	.	.	.	.	
Southeast	163	.	.	.	.	0.7	0.5	.	.	.	.	.	
Total	1560	.	.	.	.	37.0	2.4	.	.	.	.	.	
<b>CRP</b>													
Northwest	302.3	.	.	.	.	18.7	6.2	.	.	.	.	.	
North Central	409.6	.	.	.	.	100.9	24.6	.	.	.	.	.	
Northeast	553.2	.	.	.	.	77.1	13.9	.	.	.	.	.	
West Central	126.2	.	.	.	.	0.5	0.4	.	.	.	.	.	
Central	422.7	.	.	.	.	68.9	16.3	0.1	0.0	.	.	.	
East Central	247.7	.	.	.	.	31.7	12.8	.	.	.	.	.	
Southwest	391.1	.	.	.	.	28.1	7.2	.	.	.	.	.	
South Central	221.0	.	.	.	.	11.5	5.2	.	.	.	.	.	
Southeast	339.2	.	.	.	.	53.5	15.8	.	.	.	.	.	
Total	3013.0	.	.	.	.	390.9	13.0	0.1	0.0	.	.	.	
<b>Pasture</b>													
Northwest	1119.8	.	.	.	.	23.3	2.1	.	.	.	.	.	
North Central	733.6	.	.	.	.	48.3	6.6	0.5	0.1	.	.	.	
Northeast	183.6	.	.	.	.	8.7	4.8	.	.	.	.	.	
West Central	1902.4	.	.	.	.	3.6	0.2	.	.	0.5	0.0	.	
Central	828.6	.	.	.	.	29.8	3.6	.	.	.	.	.	
East Central	173.5	.	.	.	.	4.7	2.7	0.5	0.3	.	.	.	
Southwest	2320.4	.	.	.	.	32.5	1.4	.	.	.	.	.	
South Central	2331.2	.	.	.	.	21.5	0.9	3.4	0.1	.	.	.	
Southeast	825.9	.	.	.	.	40.8	4.9	.	.	.	.	.	
Total	10419.0	.	.	.	.	213.1	2.0	4.4	0.0	0.5	0.0	.	
<b>Fallow</b>													
Northwest	130.7	.	.	.	.	98.4	75.3	.	.	.	.	.	
North Central	70.0	.	.	.	.	16.0	22.9	.	.	.	.	.	
West Central	64.6	.	.	.	.	20.7	32.1	.	.	.	.	.	
Central	65.2	.	.	.	.	26.4	40.5	.	.	.	.	.	
Southwest	40.6	.	.	.	.	4.0	9.7	.	.	.	.	.	
South Central	27.4	.	.	.	.	9.2	33.7	.	.	.	.	.	
Southeast	123.8	.	.	.	.	47.3	38.2	.	.	.	.	.	
Combined. NE, EC Dist.	200.7	.	.	.	.	36.2	18.0	.	.	.	.	.	
Total	723.0	.	.	.	.	258.2	35.7	.	.	.	.	.	

<sup>1</sup> Preliminary estimates by the National Agricultural Statistics Service with the following exceptions: Pasture acreage was taken from the 2007 census. Acreage for mustard, safflower, crambe, summer fallow and CRP were taken from Farm Service Agency data.

<sup>2</sup> Multiple applications to the same acreage were totaled as one application within a pesticide group, . = no data reported.

**Table 4. ON-FARM SEED TREATMENT BY CROP: Acres treated, percent of crop and method of application for North Dakota, 2008.**

Treatment	Acres Seeded <sup>1</sup> 1000	Acres Seeded %	Treatment Method		
			Drill box %	Auger %	Other %
<b>Wheat</b>					
Carboxin	135.9	1.5	2.3	97.7	.
Carboxin + Imazalil + Thiabendazole	29.9	0.3	.	100.0	.
Carboxin + Maneb + Lindane	44.2	0.5	6.4	93.6	.
Carboxin + Thiram	28.8	0.3	11.9	55.4	32.7
Chlorpyrifos	17.9	0.2	26.8	48.1	25.0
Difenoconazole	244.7	2.7	10.9	89.1	.
Imidacloprid	30.3	0.3	.	100.0	.
Maneb + Lindane	215.1	2.3	7.9	89.0	3.1
Tebuconazole + Metalaxyl	1370.1	14.8	5.8	89.4	4.8
Tebuconazole + Metalaxyl + Imazalil	594.6	6.4	4.2	94.2	1.6
Triticonazole + Thiram	108.6	1.2	.	68.0	32.0
Unknown or Other Seed Treatment	683.6	7.4	18.3	69.6	12.1
<b>Total</b>	<b>3503.8</b>	<b>38.0</b>	<b>8.2</b>	<b>85.7</b>	<b>6.1</b>
<b>Barley</b>					
Carboxin	37.4	2.3	26.3	73.7	.
Carboxin + Maneb + Lindane	13.1	0.8	.	100.0	.
Difenoconazole	9.4	0.6	79.4	20.6	.
Maneb + Lindane	59.8	3.6	2.1	86.0	12.0
Tebuconazole + Metalaxyl	303.1	18.4	2.9	92.3	4.7
Tebuconazole + Metalaxyl + Imazalil	69.7	4.2	8.9	87.5	3.6
Unknown or Other Seed Treatment	229.4	13.9	35.3	55.1	9.6
<b>Total</b>	<b>722.0</b>	<b>43.8</b>	<b>15.9</b>	<b>77.7</b>	<b>6.4</b>
<b>Oat</b>					
Tebuconazole + Metalaxyl	4.1	1.3	.	100.0	.
Unknown or Other Seed Treatment	4.4	1.4	12.9	59.7	27.4
<b>Total</b>	<b>8.4</b>	<b>2.6</b>	<b>6.7</b>	<b>79.1</b>	<b>14.2</b>
<b>Soybean</b>					
Fludioxonil + Mefenoxam	122.8	3.2	.	89.2	10.8
Thiamethoxam + Fludioxonil + Mefenoxam	3.6	0.1	.	39.8	60.2
Trifloxystrobin + Metalaxyl	38.8	1.0	.	8.4	91.6
Unknown or Other Seed Treatment	142.8	3.8	14.1	49.2	36.7
<b>Total</b>	<b>308.0</b>	<b>8.1</b>	<b>6.5</b>	<b>59.9</b>	<b>33.6</b>
<b>Field pea</b>					
Fludioxonil + Mefenoxam	23.2	4.5	3.0	88.0	8.9
Unknown or Other Seed Treatment	59.0	11.3	3.5	76.0	20.5
<b>Total</b>	<b>82.3</b>	<b>15.8</b>	<b>3.4</b>	<b>79.4</b>	<b>17.2</b>
<b>Flax</b>					
Unknown or Other Seed Treatment	2.7	0.8	35.3	.	64.7
<b>Total</b>	<b>2.7</b>	<b>0.8</b>	<b>35.3</b>	<b>.</b>	<b>64.7</b>
<b>Canola</b>					
Clothianidin	110.5	12.1	.	22.3	77.7
Imidacloprid	49.6	5.5	4.3	.	95.7
Thiamethoxam	6.5	0.7	.	.	100.0
Thiamethoxam + Fludioxonil + Mefenoxam	12.1	1.3	22.6	.	77.4
Thiamethoxam + Mefenoxam + Fludioxonil + Difenoconazole	261.1	28.7	7.6	4.3	88.1
Unknown or Other Seed Treatment	292.2	32.1	4.9	6.5	88.6
<b>Total</b>	<b>732.1</b>	<b>80.5</b>	<b>5.3</b>	<b>7.5</b>	<b>87.2</b>

**Table 4. Continued.**

Treatment	Acres	Acres	Treatment Method		
	Seeded <sup>1</sup>	Seeded	Drill box	Auger	Other
	1000	%	%	%	%
<b>Potato</b>					
Unknown or Other Seed Treatment	65.8	80.3	.	40.0	60.0
Total	65.8	80.3	.	40.0	60.0

<sup>1</sup> Acres reported seeded with treated seed include multiple applications to the same seed and seed treatment products applied as a tank-mixture were totaled separately unless as a commercial premix.

. = no data reported.

**Table 5. ON-FARM SEED TREATMENT BY ACTIVE INGREDIENT: Total acres treated, percent of surveyed crops and method of application, North Dakota, 2008.**

Treatment	Acres	Acres	Treatment Method		
	Seeded <sup>1</sup>	Seeded	Drill box	Auger	Other
	1000	%	%	%	%
Captan	8.6	0.1	2.2	97.8	.
Carboxin	176.6	1.2	7.4	92.6	.
Carboxin + Imazalil + Thiabendazole	32.3	0.3	3.8	96.2	.
Carboxin + Maneb + Lindane	57.4	0.5	4.9	95.1	.
Carboxin + Thiram	30.5	0.3	16.8	52.3	30.9
Chlorpyrifos	20.3	0.2	23.6	42.4	34.0
Clothianidin	142.7	1.2	.	34.4	65.6
Diazinon	20.5	0.2	43.0	57.0	.
Difenoconazole	257.8	2.2	13.2	85.3	1.4
Fludioxonil + Mefenoxam	146.1	3.4	0.5	89.0	10.5
Imidacloprid	95.3	0.6	2.3	38.0	59.8
Mancozeb	28.7	0.3	3.0	97.0	.
Maneb + Lindane	276.1	2.4	6.9	88.1	5.0
Metalaxyl	32.5	0.2	.	59.6	40.4
Tebuconazole + Metalaxyl	1691.0	10.6	5.2	89.3	5.5
Tebuconazole + Metalaxyl + Imazalil	666.5	5.7	4.7	93.2	2.1
Thiamethoxam	11.6	0.2	8.4	35.3	56.2
Thiamethoxam + Fludioxonil + Mefenoxam	26.3	0.2	10.4	45.8	43.8
Thiamethoxam + Mefenoxam + Fludioxonil + Difenoconazole	261.1	28.7	7.6	4.3	88.1
Thiram	14.5	0.1	.	95.0	5.0
Trifloxystrobin + Metalaxyl	38.8	1.0	.	8.4	91.6
Triticonazole + Thiram	115.8	1.1	4.0	66.0	30.0
Unknown or Other Seed Treatment	1274.3	7.6	17.6	49.6	32.8
Total	5425.1	32.2	8.6	71.9	19.5

<sup>1</sup> Acres reported seeded with treated seed include multiple applications to the same seed and seed treatment products applied as a tank-mixture were totaled separately unless as a commercial premix.

. = no data reported