

Table 1. Number and type of crop sites surveyed in each county, spring 2000.

COUNTY	HRS Wheat	Soy- bean	Sun- flower	Barley	Corn	Can- ola	Durum wheat	Tame oat	Dry bean	Flax	Sugar- beet	Tame mustard	Field pea	Lentil	Buck- wheat	Saf- flower	TOTAL
Adams	11	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	13
Barnes	18	20	20	5	1	-	-	1	1	-	-	-	-	-	-	-	66
Benson	17	-	8	8	-	1	-	1	1	-	-	-	-	-	-	-	36
Billings	5	-	-	1	-	-	-	3	-	-	-	-	1	-	-	-	10
Bottineau	17	-	5	10	1	5	-	2	-	2	-	-	1	-	-	-	43
Bowman	4	-	3	2	1	-	-	-	-	-	-	-	-	-	1	-	11
Burke	1	-	-	-	-	5	17	-	-	-	-	-	-	1	-	-	24
Burliegh	8	-	2	-	2	-	-	1	1	1	-	-	-	-	-	-	15
Cass	61	13	1	6	-	-	-	-	1	1	1	-	-	-	-	-	84
Cavalier	25	-	11	4	-	8	2	-	2	-	-	-	-	-	-	-	52
Dickey	6	1	-	1	16	-	-	3	-	-	-	-	-	-	-	-	27
Divide	22	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	23
Dunn	3	-	-	1	1	-	-	3	-	-	-	3	-	-	-	-	11
Eddy	4	1	3	-	1	2	-	1	-	-	-	-	-	-	-	-	12
Emmons	21	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	24
Foster	11	-	7	-	-	3	-	-	-	-	-	-	-	-	-	-	21
Golden Valley	7	-	1	1	-	-	-	1	-	-	-	-	-	-	-	-	10
Grand Forks	25	-	1	-	5	-	-	-	1	-	6	-	-	-	-	-	38
Grant	7	-	4	1	3	-	-	1	-	-	-	-	-	-	-	-	16
Griggs	10	3	1	3	-	-	-	-	2	-	-	-	-	-	-	-	19
Hettinger	18	-	3	1	2	4	-	1	-	3	-	-	-	-	-	-	32
Kidder	2	-	-	1	2	-	-	2	-	2	-	-	-	1	-	-	10
LaMoure	13	12	2	2	8	-	-	1	-	-	-	-	-	-	-	-	38
Logan	4	-	2	2	3	-	-	-	-	-	-	-	-	-	-	-	11
McHenry	7	-	8	2	2	-	2	2	-	-	-	2	-	-	-	-	25
McIntosh	11	-	-	1	-	-	-	4	-	-	-	-	-	-	-	-	16
McKenzie	9	-	-	5	-	2	-	11	-	-	-	-	-	-	-	1	28
McLean	25	-	2	-	1	10	-	-	4	-	-	-	2	-	-	-	44
Mercer	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11
Morton	19	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
Mountrail	13	-	-	2	-	1	11	2	-	2	-	-	2	-	-	-	33
Nelson	13	2	3	2	2	5	1	-	-	2	-	-	-	-	-	-	30
Oliver	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10
Pierce	6	-	1	7	-	2	2	1	-	2	-	-	-	-	-	-	21
Pembina	12	8	8	8	-	13	5	-	-	-	-	-	-	-	-	-	54
Ramsey	16	4	-	4	1	3	2	1	-	-	-	-	-	-	-	-	31
Ransom	5	5	-	-	5	-	-	-	-	-	-	-	-	-	-	-	15
Renville	18	-	6	4	-	-	3	-	-	3	-	-	-	-	-	-	34
Richland	20	26	1	-	14	-	-	-	-	-	-	-	-	-	-	-	61
Rolette	5	-	-	3	-	2	3	-	-	1	-	-	-	-	-	-	14
Sargent	11	13	2	-	3	-	-	-	-	-	-	-	-	-	-	-	29
Sheridan	8	-	1	6	-	1	-	1	-	-	-	-	-	-	-	-	17
Sioux	4	-	2	-	2	-	-	2	-	-	-	-	-	-	-	-	10
Slope	5	-	2	1	-	-	2	1	-	-	-	-	-	-	-	-	11
Stark	7	-	3	1	1	1	-	1	-	-	-	-	-	-	-	-	14
Steele	16	2	1	-	-	-	-	-	6	-	-	-	-	-	-	-	25
Stutsman	18	10	7	5	1	1	1	3	-	3	-	-	-	-	1	-	50
Towner	6	1	8	4	-	4	6	-	-	-	-	-	-	-	-	-	29
Traill	20	17	2	2	7	-	-	-	4	-	1	-	-	-	-	-	53
Walsh	36	24	10	3	1	2	-	-	-	1	-	-	-	-	-	-	77
Ward	28	-	7	4	1	3	14	1	-	1	-	3	-	-	-	-	62
Wells	17	-	7	11	3	-	2	-	2	-	-	-	-	-	-	-	42
Williams	23	-	-	12	-	-	2	2	-	-	-	-	-	-	-	-	39
TOTAL	719	163	156	136	91	78	75	56	25	24	8	8	5	4	2	1	1551

Table 2. North Dakota weed infestations in current crop of HRS wheat, durum wheat, barley, and tame oat based on 986 surveyed fields, spring 2000.

Weed species	Weed Frequency	Field Uniformity		Weed Density		Weed Density Range		Weed Index
		All	Infested	All	Infested	Low	High	
Green foxtail	69.9	25.2	36.0	28.1	40.2	2.3	28.2	114.0
Wild buckwheat	52.5	18.7	35.6	7.7	14.7	0.1	5.6	54.2
Wild mustard	47.3	16.7	35.4	7.0	14.8	0.1	6.4	48.8
Wild oat	32.5	11.0	33.9	6.2	19.2	0.1	8.1	36.4
Kochia	34.5	11.3	32.7	5.6	16.2	0.2	11.6	35.8
Pigweed species	28.4	9.6	33.9	4.6	16.1	<0.1	7.9	29.8
Canada thistle	36.5	9.5	25.9	2.8	7.6	<0.1	3.6	26.3
Yellow foxtail	16.1	5.7	35.6	5.1	32.1	0.3	16.4	23.1
Common lambsquarters	26.1	7.4	28.3	2.9	11.1	<0.1	5.7	22.8
Sunflower	14.2	5.6	39.2	3.2	22.7	0.1	8.3	17.9
Russian thistle	17.3	5.1	29.6	2.6	14.9	<0.1	6.8	16.9
Field bindweed	15.4	3.8	24.8	1.3	8.3	<0.1	3.8	11.9
Field pennycress	12.6	3.8	30.2	1.5	11.6	<0.1	7.2	11.4
Quackgrass	12.6	2.7	21.1	1.5	12.1	<0.1	6.3	10.4
Common ragweed	11.0	2.8	25.2	1.0	9.5	<0.1	5.8	8.9
Canola	6.3	2.3	36.9	1.8	28.5	0.1	16.5	8.5
Soybean	7.9	2.5	31.2	0.4	5.5	<0.1	2.2	6.1
Eastern black nightshade	7.1	1.7	23.3	0.6	8.2	<0.1	3.9	5.4
Perennial sowthistle	7.3	1.5	20.7	0.5	7.2	<0.1	3.6	5.2
Volunteer cereal	4.5	1.4	31.4	0.5	11.6	<0.1	5.5	4.2
Common mallow	4.6	1.2	25.3	0.4	8.5	<0.1	4.7	3.6
Flixweed/Tansy mustard	5.4	1.3	23.6	0.2	3.7	<0.1	1.8	3.5
Prickly lettuce	5.0	1.1	21.5	0.2	4.8	<0.1	2.5	3.3
Common cocklebur	4.3	1.1	25.0	0.3	5.8	<0.1	3.3	3.1
Annual smartweed	3.8	0.7	19.1	0.4	11.7	0.1	10.3	3.0
Dandelion	4.3	1.0	24.3	0.2	4.0	<0.1	1.9	2.9
Common milkweed	3.8	0.5	13.7	0.1	3.1	<0.1	2.3	2.1
Shepherd's-purse	2.0	0.5	24.7	0.3	13.2	<0.1	7.2	1.8
Barnyardgrass	1.6	0.5	33.3	0.2	11.9	<0.1	4.1	1.5
Fairy candelabra	2.0	0.5	23.7	0.1	6.7	<0.1	3.3	1.5
Flax	1.0	0.5	53.3	0.3	27.4	<0.1	16.6	1.5
Prairie wild rose	1.9	0.4	18.9	0.1	3.9	<0.1	2.5	1.2
Sweetclover	1.5	0.4	25.0	0.1	8.0	<0.1	3.9	1.2
Downy brome	1.2	0.3	23.6	0.1	10.0	<0.1	5.5	1.0
Common purslane	1.2	0.2	20.9	0.1	5.7	<0.1	2.5	0.8
Curly dock	1.4	0.2	15.4	<0.1	3.6	<0.1	2.7	0.8
Hedge bindweed	1.1	0.3	28.0	0.1	5.0	<0.1	1.8	0.8
Wild-proso millet	0.9	0.2	26.3	0.1	13.1	<0.1	6.0	0.8
Prostrate pigweed	1.0	0.3	27.8	0.1	6.7	<0.1	3.2	0.7
Horseweed	1.2	0.2	20.0	<0.1	3.0	<0.1	1.5	0.7
Yellow woodsorrel	0.5	0.2	32.0	0.1	16.1	<0.1	6.6	0.6
Nightflowering catchfly	0.5	0.2	38.0	0.1	13.3	<0.1	3.8	0.6
Greenflower pepperweed	1.1	0.1	12.0	<0.1	1.6	<0.1	1.2	0.5
Giant ragweed	0.6	0.2	28.3	<0.1	7.4	<0.1	3.2	0.5
Biennial wormwood	0.6	0.2	33.3	<0.1	4.7	<0.1	2.0	0.5
Lanceleaf sage	0.4	0.2	37.5	0.1	11.8	<0.1	4.0	0.4

Table 2. (continued).

Whitlowwart species	0.6	0.1	21.7	<0.1	3.4	<0.1	1.8	0.4
Marshelder	0.8	0.1	14.3	<0.1	2.0	<0.1	1.4	0.4
Common chickweed	0.6	0.1	15.0	<0.1	4.7	<0.1	6.8	0.4
Alfalfa	0.5	0.1	24.0	<0.1	4.5	<0.1	2.2	0.4
Dry bean	0.6	0.1	16.7	<0.1	2.7	<0.1	1.7	0.4
Field sandbur	0.2	<0.1	10.0	0.1	48.4	<0.1	27.0	0.3
Cutleaf nightshade	0.5	0.1	18.0	<0.1	4.5	<0.1	3.4	0.3
Foxtail barley	0.6	0.1	10.0	<0.1	2.3	<0.1	2.2	0.3
Purslane speedwell	0.5	0.1	16.0	<0.1	3.7	<0.1	2.6	0.3
Venice mallow	0.5	0.1	10.0	<0.1	2.8	<0.1	4.8	0.3
Safflower	0.2	0.1	55.0	<0.1	14.0	<0.1	3.0	0.3
Hairy nightshade	0.3	<0.1	6.7	0.1	15.8	<0.1	7.7	0.2
False chamomile	0.4	0.1	15.0	<0.1	1.6	<0.1	1.0	0.2
Field pea	0.2	0.1	45.0	<0.1	9.7	<0.1	2.0	0.2
Leafy spurge	0.2	<0.1	15.0	<0.1	4.3	<0.1	2.5	0.1
Lentil	0.2	<0.1	5.0	<0.1	7.0	<0.1	24.0	0.1
Wild vetch	0.2	<0.1	15.0	<0.1	1.6	<0.1	1.0	0.1
Erect knotweed	0.2	<0.1	10.0	<0.1	1.6	<0.1	1.5	0.1
Tall waterhemp	0.1	<0.1	20.0	<0.1	2.2	<0.1	1.0	0.1
Corn	0.1	<0.1	20.0	<0.1	2.2	<0.1	1.0	0.1
Horsetail	0.1	<0.1	10.0	<0.1	1.1	<0.1	1.0	<0.1
Smallseed falseflax	0.1	<0.1	10.0	<0.1	1.1	<0.1	1.0	<0.1
Weed free	32.9	10.7	32.7	-	-	-	-	-

Table 3. North Dakota weed infestations in current crop of canola, tame mustard, and buckwheat based on 88 surveyed fields, spring 2000.

Weed species	Weed Frequency	Field Uniformity		Weed Density		Weed Density Range		Weed Index
		All	Infested	All	Infested	Low	High	
	(%)	(%)	(%)	-- Plants/m ² --	-- Plants/m ² --	-- Plants/m ² --	-- Plants/m ² --	
Green foxtail	63.8	23.8	37.3	23.6	37.0	2.1	33.8	100.1
Wild oat	44.9	16.7	37.1	10.9	24.3	0.2	11.2	57.1
Volunteer cereal	40.6	16.5	40.7	8.6	21.1	0.1	8.1	50.1
Canada thistle	52.2	17.0	32.5	5.6	10.7	<0.1	4.3	47.4
Wild buckwheat	36.2	13.0	36.0	4.9	13.4	<0.1	5.7	36.5
Wild mustard	39.1	13.2	33.7	3.9	10.0	<0.1	3.7	35.4
Quackgrass	31.9	8.6	26.8	6.0	18.7	0.3	11.5	33.1
Kochia	24.6	8.1	32.9	3.8	15.3	<0.1	7.6	25.1
Yellow foxtail	13.0	5.2	40.0	3.9	29.8	0.3	15.8	18.6
Pigweed species	15.9	6.7	41.8	2.5	16.0	<0.1	4.5	17.9
Russian thistle	17.4	5.4	30.8	1.4	8.2	<0.1	5.5	14.5
Field pennycress	18.8	3.5	18.5	1.4	7.4	<0.1	3.5	13.0
Common lambsquarters	13.0	2.6	20.0	0.8	5.9	<0.1	8.9	8.7
Flax	4.3	0.7	16.7	1.5	35.5	<0.1	6.7	5.8
Annual smartweed	7.2	1.7	24.0	0.6	8.2	<0.1	8.6	5.5
Common ragweed	7.2	1.9	26.0	0.4	5.4	<0.1	2.8	5.2
Prickly lettuce	2.9	1.4	50.0	0.5	17.2	<0.1	5.5	3.6
Field bindweed	5.8	1.0	17.5	0.2	3.5	<0.1	2.0	3.4
Common purslane	5.8	1.0	17.5	0.1	1.9	<0.1	1.0	3.2
Sunflower	4.3	0.9	20.0	0.1	2.5	<0.1	1.3	2.6
Perennial sowthistle	4.3	0.7	16.7	0.1	3.2	<0.1	2.3	2.5
Common mallow	2.9	1.0	35.0	0.2	6.5	<0.1	3.0	2.4
Flixweed/Tansy mustard	4.3	0.7	16.7	0.1	1.8	<0.1	1.0	2.4
Whitlowwart species	4.3	0.6	13.3	0.1	2.2	<0.1	1.7	2.2
Prairie wild rose	4.3	0.6	13.3	0.1	1.4	<0.1	1.0	2.2
Common cocklebur	2.9	0.9	30.0	0.1	4.8	<0.1	2.0	2.2
Dandelion	2.9	0.4	15.0	0.1	2.2	<0.1	1.5	1.5
Lanceleaf sage	2.9	0.3	10.0	0.1	2.2	<0.1	2.0	1.4
Foxtail barley	2.9	0.3	10.0	<0.1	1.6	<0.1	1.5	1.4
Barnyardgrass	1.4	0.3	20.0	0.1	5.4	<0.1	3.0	1.0
Cutleaf nightshade	1.4	0.3	20.0	0.1	4.3	<0.1	2.0	0.9
Horsetail	1.4	0.1	10.0	0.1	7.5	<0.1	7.0	0.9
Tall waterhemp	1.4	0.3	20.0	<0.1	3.2	<0.1	2.0	0.9
Greenflower pepperweed	1.4	0.3	20.0	<0.1	3.2	<0.1	2.0	0.9
Common chickweed	1.4	0.3	20.0	<0.1	2.2	<0.1	1.0	0.8
Horseweed	1.4	0.1	10.0	<0.1	3.2	<0.1	3.0	0.7
Swamp smartweed	1.4	0.1	10.0	<0.1	1.1	<0.1	1.0	0.7
Wild vetch	1.4	0.1	10.0	<0.1	1.1	<0.1	1.0	0.7
Nightflowering catchfly	1.4	0.1	10.0	<0.1	1.1	<0.1	1.0	0.7
Fairy candelabra	1.4	0.1	10.0	<0.1	1.1	<0.1	1.0	0.7
Shepherd's-purse	1.4	0.1	10.0	<0.1	1.1	<0.1	1.0	0.7
Weed free	36.2	10.7	29.6	-	-	-	-	-

Table 4. North Dakota weed infestations in current crop of soybean, dry bean, lentil, and field pea based on 197 surveyed fields, spring 2000.

Weed species	Weed							Weed Index
	Weed Frequency	Field Uniformity		Weed Density		Density Range		
	(%)	All (%)	Infested (%)	All	Infested	Low	High	
				-- Plants/m ² --		-- Plants/m ² --		
Green foxtail	46.0	17.6	38.4	11.9	25.9	0.9	21.9	60.8
Wild mustard	56.1	19.4	34.5	7.0	12.5	<0.1	4.2	54.5
Yellow foxtail	31.6	12.4	39.2	7.7	24.5	0.6	12.8	40.9
Canada thistle	41.7	9.7	23.3	3.3	7.9	<0.1	3.6	31.3
Volunteer cereal	31.6	11.6	36.8	3.4	10.6	<0.1	3.5	30.0
Common lambsquarters	26.7	6.3	23.6	4.4	16.4	0.1	6.3	25.5
Wild oat	23.0	7.0	30.2	2.8	12.4	<0.1	5.4	21.3
Pigweed species	20.9	6.5	31.3	2.3	10.9	<0.1	4.3	18.8
Wild buckwheat	23.5	7.0	29.8	1.6	6.8	<0.1	3.0	18.6
Quackgrass	20.3	5.0	24.5	1.6	7.7	<0.1	4.0	15.4
Common ragweed	18.7	5.3	28.6	1.3	7.2	<0.1	3.4	14.7
Common cocklebur	14.4	4.6	31.9	1.7	11.5	<0.1	3.8	13.3
Eastern black nightshade	15.5	4.7	30.0	1.3	8.4	<0.1	4.0	12.8
Common milkweed	16.0	2.8	17.3	0.8	4.8	<0.1	2.7	9.9
Kochia	12.3	2.7	22.2	1.1	9.0	<0.1	6.9	9.4
Wild-proso millet	6.4	2.0	31.7	1.1	16.4	<0.1	7.5	6.6
Field pennycress	5.3	1.6	30.0	0.3	6.4	<0.1	2.3	4.2
Field bindweed	3.7	0.9	22.9	0.1	3.7	<0.1	2.1	2.4
Sunflower	2.7	0.9	32.0	0.3	9.5	<0.1	5.4	2.3
Common purslane	3.2	0.7	21.7	0.2	6.6	<0.1	2.0	2.3
Perennial sowthistle	3.7	0.6	15.7	0.1	3.4	<0.1	2.4	2.1
Dandelion	3.2	0.7	23.3	0.1	2.9	<0.1	1.3	2.0
Russian thistle	3.7	0.5	12.9	0.1	2.3	<0.1	1.7	1.9
Flixweed/Tansy mustard	2.1	0.6	27.5	0.2	11.6	<0.1	6.8	1.9
Annual smartweed	2.1	0.6	27.5	0.1	6.2	<0.1	2.8	1.6
Biennial wormwood	2.7	0.5	20.0	0.1	2.2	<0.1	1.0	1.6
Common mallow	2.1	0.5	25.0	0.1	5.7	<0.1	2.0	1.5
Giant ragweed	1.6	0.5	33.3	0.1	9.3	<0.1	3.7	1.4
Barnyardgrass	1.6	0.5	33.3	0.1	8.3	<0.1	3.0	1.4
Prickly lettuce	2.1	0.3	12.5	0.1	2.7	<0.1	2.3	1.1
Corn	1.6	0.4	23.3	0.1	4.7	<0.1	2.7	1.1
Shepherd's-purse	1.1	0.4	40.0	0.1	8.6	<0.1	3.0	1.0
Fairy candelabra	0.5	0.4	70.0	0.2	34.4	<0.1	7.0	1.0
Nightflowering catchfly	1.6	0.3	20.0	<0.1	2.9	<0.1	1.7	1.0
Lanceleaf sage	1.1	0.3	25.0	0.1	7.0	<0.1	3.0	0.8
Canola	0.5	0.3	50.0	0.1	28.0	<0.1	20.0	0.8
Venice mallow	0.5	0.3	50.0	0.1	25.8	<0.1	12.0	0.8
Yellow woodsorrel	1.1	0.2	20.0	0.1	4.8	<0.1	2.5	0.7
Tall waterhemp	1.1	0.2	20.0	<0.1	4.3	<0.1	2.0	0.7
Yellow nutsedge	1.1	0.1	10.0	<0.1	3.8	<0.1	3.5	0.6
Prairie wild rose	1.1	0.1	10.0	<0.1	1.1	<0.1	1.0	0.5
Swamp smartweed	1.1	0.1	10.0	<0.1	1.1	<0.1	1.0	0.5
Whitlowwart species	0.5	0.2	40.0	<0.1	4.3	<0.1	1.0	0.4
Horseweed	0.5	0.2	30.0	<0.1	3.2	<0.1	1.0	0.4
Prostrate pigweed	0.5	0.1	10.0	<0.1	1.1	<0.1	1.0	0.2
Buffalobur	0.5	0.1	10.0	<0.1	1.1	<0.1	1.0	0.2
Marshelder	0.5	0.1	10.0	<0.1	1.1	<0.1	1.0	0.2
Hairy nightshade	0.5	0.1	10.0	<0.1	1.1	<0.1	1.0	0.2
Field sandbur	0.5	<0.1	<0.1	0.5	2.3	<0.1	14.0	<0.1
Weed free	47.6	13.4	28.2	-	-	-	-	-

Table 5. North Dakota weed infestations in current crop of corn based on 91 surveyed fields, spring 2000.

Weed species	Weed							
	Weed Frequency	Field Uniformity		Weed Density		Density Range		Weed Index
	(%)	All (%)	Infested (%)	All -- Plants/m ² --	Infested -- Plants/m ² --	Low	High	
Green foxtail	59.3	22.7	38.3	17.2	29.0	0.7	19.5	82.7
Common lambsquarters	42.9	17.8	41.5	12.4	28.9	0.1	13.3	61.0
Yellow foxtail	36.3	11.8	32.4	12.3	33.8	0.6	18.3	52.4
Wild buckwheat	45.1	16.8	37.3	5.7	12.6	0.1	5.7	45.1
Wild mustard	36.3	12.7	35.2	4.6	12.6	<0.1	4.7	35.5
Wild oat	26.4	10.3	39.2	6.7	25.5	0.1	14.7	34.8
Kochia	27.5	7.7	28.0	4.3	15.6	<0.1	13.8	26.8
Sunflower	23.1	8.7	37.6	4.3	18.6	0.1	6.7	26.4
Pigweed species	25.3	7.0	27.8	3.3	13.0	0.1	9.9	23.1
Canada thistle	31.9	6.0	19.0	2.1	6.5	<0.1	3.2	21.5
Common cocklebur	24.2	7.3	30.0	2.4	9.8	0.1	4.2	20.9
Soybean	19.8	7.3	36.7	1.3	6.6	<0.1	2.7	16.9
Volunteer cereal	13.2	5.7	43.3	2.0	15.0	<0.1	6.0	14.7
Field bindweed	17.6	4.5	25.6	0.8	4.4	<0.1	2.3	12.2
Wild-proso millet	8.8	3.8	43.8	2.3	25.7	<0.1	12.0	12.0
Quackgrass	16.5	2.5	15.3	1.1	6.7	<0.1	4.9	10.6
Eastern black nightshade	11.0	3.0	27.0	1.7	15.1	<0.1	5.2	10.5
Russian thistle	12.1	3.4	28.2	0.9	7.2	<0.1	3.0	9.5
Common milkweed	13.2	2.6	20.0	0.5	4.1	<0.1	2.3	8.3
Barnyardgrass	6.6	2.3	35.0	1.6	24.6	<0.1	19.0	8.3
Perennial sowthistle	9.9	1.6	16.7	0.4	3.9	<0.1	2.9	5.9
Prickly lettuce	9.9	1.8	17.8	0.2	2.3	<0.1	1.3	5.6
Common ragweed	6.6	1.5	23.3	0.2	3.6	<0.1	1.7	4.3
Leafy spurge	2.2	1.3	60.0	0.6	29.1	<0.1	8.0	3.5
Foxtail barley	4.4	0.8	17.5	0.4	8.3	<0.1	3.8	3.1
Common mallow	3.3	1.2	36.7	0.3	8.3	<0.1	3.3	2.9
Horseweed	3.3	0.8	23.3	0.1	3.2	<0.1	1.7	2.1
Greenflower pepperweed	2.2	0.5	25.0	0.1	3.2	<0.1	1.5	1.4
Field pennycress	2.2	0.3	15.0	0.1	2.7	<0.1	1.5	1.2
Common purslane	2.2	0.3	15.0	<0.1	1.6	<0.1	1.0	1.1
Erect knotweed	1.1	0.3	30.0	0.2	14.0	<0.1	5.0	1.1
Swamp smartweed	1.1	0.5	50.0	0.1	5.4	<0.1	1.0	1.1
Dandelion	2.2	0.2	10.0	<0.1	1.1	<0.1	1.0	1.0
Canola	1.1	0.3	30.0	<0.1	3.2	<0.1	1.0	0.8
Hedge bindweed	1.1	0.2	20.0	<0.1	4.3	<0.1	3.0	0.7
Shepherd's-purse	1.1	0.1	10.0	<0.1	3.2	<0.1	3.0	0.6
Annual smartweed	1.1	0.1	10.0	<0.1	2.2	<0.1	2.0	0.5
Flax	1.1	0.1	10.0	<0.1	2.2	<0.1	2.0	0.5
Alfalfa	1.1	0.1	10.0	<0.1	1.1	<0.1	1.0	0.5
Sweetclover	1.1	0.1	10.0	<0.1	1.1	<0.1	1.0	0.5
Prairie wild rose	1.1	0.1	10.0	<0.1	1.1	<0.1	1.0	0.5
Prostrate spurge	1.1	0.1	10.0	<0.1	1.1	<0.1	1.0	0.5
Hairy nightshade	1.1	0.1	10.0	<0.1	1.1	<0.1	1.0	0.5
Yellow woodsorrel	1.1	0.1	10.0	<0.1	1.1	<0.1	1.0	0.5
Tall waterhemp	1.1	0.1	10.0	<0.1	1.1	<0.1	1.0	0.5
Biennial wormwood	1.1	0.1	10.0	<0.1	1.1	<0.1	1.0	0.5
Weed free	35.2	12.5	35.6	-	-	-	-	-

Table 6. North Dakota weed infestations in current crop of flax based 24 surveyed fields, spring 2000.

Weed species	Weed							
	Weed Frequency	Field Uniformity		Weed Density		Density Range		Weed Index
	(%)	All (%)	Infested (%)	All	Infested	Low	High	
				-- Plants/m ² --		-- Plants/m ² --		
Green foxtail	83.3	26.7	32.0	32.1	38.5	4.5	38.8	129.4
Wild mustard	66.7	23.8	35.6	10.1	15.2	<0.1	5.5	69.6
Wild buckwheat	62.5	22.9	36.7	10.5	16.7	<0.1	4.8	68.1
Volunteer cereal	50.0	22.5	45.0	5.8	11.6	<0.1	4.4	52.7
Wild oat	45.8	15.8	34.5	9.0	19.7	0.1	5.6	52.1
Kochia	45.8	13.3	29.1	4.8	10.4	<0.1	4.0	39.7
Yellow foxtail	20.8	4.2	20.0	10.3	49.5	0.3	22.6	35.2
Field pennycress	37.5	7.1	18.9	3.4	9.0	0.1	8.8	27.4
Canada thistle	37.5	8.8	23.3	2.2	5.7	<0.1	2.6	26.3
Quackgrass	25.0	5.8	23.3	3.1	12.4	<0.1	7.0	21.4
Pigweed species	25.0	6.3	25.0	2.5	10.0	<0.1	4.3	20.4
Common lambsquarters	20.8	6.7	32.0	1.7	8.4	<0.1	4.0	17.7
Field bindweed	25.0	5.4	21.7	1.6	6.3	<0.1	2.7	17.4
Canola	12.5	5.4	43.3	1.2	9.3	<0.1	3.3	12.3
Russian thistle	12.5	4.2	33.3	1.3	10.8	<0.1	3.7	11.5
Shepherd's-purse	8.3	2.5	30.0	2.0	23.7	<0.1	8.5	9.9
Flixweed/Tansy mustard	16.7	2.5	15.0	0.3	1.9	<0.1	1.3	8.8
Downy brome	8.3	2.5	30.0	1.1	13.5	<0.1	4.5	7.9
Sunflower	12.5	1.7	13.3	0.2	1.4	<0.1	1.0	6.3
Perennial sowthistle	12.5	1.3	10.0	0.1	1.1	<0.1	1.0	5.7
Prickly lettuce	8.3	1.3	15.0	0.4	5.4	<0.1	4.5	5.1
Common ragweed	8.3	0.8	10.0	0.1	1.6	<0.1	1.5	3.9
Common cocklebur	8.3	0.8	10.0	0.1	1.1	<0.1	1.0	3.8
Dandelion	4.2	1.3	30.0	0.1	3.2	<0.1	1.0	3.0
Annual smartweed	4.2	0.8	20.0	0.2	4.3	<0.1	3.0	2.6
Common mallow	4.2	0.4	10.0	0.3	7.5	<0.1	7.0	2.5
Eastern black nightshade	4.2	0.8	20.0	0.1	3.2	<0.1	2.0	2.5
Marshelder	4.2	0.4	10.0	0.1	3.2	<0.1	3.0	2.1
Barnyardgrass	4.2	0.4	10.0	0.1	2.2	<0.1	2.0	2.0
Alfalfa	4.2	0.4	10.0	0.1	2.2	<0.1	2.0	2.0
Giant ragweed	4.2	0.4	10.0	<0.1	1.1	<0.1	1.0	1.9
Weed free	16.7	5.0	30.0	-	-	-	-	-

Table 7. North Dakota weed infestations in current crop of sunflower and safflower based on 157 surveyed fields, spring 2000.

Weed species	Weed Frequency	Field Uniformity		Weed Density		Weed Density Range		Weed Index
		All	Infested	All	Infested	Low	High	
		(%)	(%)	-- Plants/m ² --		-- Plants/m ² --		
Green foxtail	65.2	29.2	44.8	21.4	32.8	0.7	23.6	100.8
Wild mustard	58.7	22.6	38.5	10.9	18.6	0.1	6.8	67.6
Canada thistle	49.3	14.4	29.3	5.5	11.2	<0.1	4.4	43.7
Volunteer cereal	42.0	17.5	41.6	4.4	10.5	<0.1	4.4	41.8
Wild buckwheat	42.0	12.6	30.0	3.2	7.6	<0.1	3.4	34.1
Wild oat	33.3	11.7	35.0	4.2	12.6	<0.1	5.3	32.6
Yellow foxtail	17.4	7.5	42.9	5.9	34.0	0.2	11.4	27.1
Pigweed species	25.4	8.2	32.3	3.7	14.4	<0.1	5.1	25.2
Kochia	24.6	7.8	31.8	3.9	15.8	0.1	7.5	21.5
Quackgrass	21.0	5.4	25.5	2.1	10.1	<0.1	5.2	17.3
Prickly lettuce	14.5	3.8	26.5	0.8	5.5	<0.1	2.9	10.5
Russian thistle	12.3	3.8	30.6	0.9	7.4	<0.1	3.2	10.0
Common ragweed	13.8	3.0	21.6	0.9	6.9	<0.1	4.8	9.8
Field pennycress	12.3	3.1	25.3	0.9	7.4	<0.1	3.5	9.4
Common milkweed	13.8	2.4	17.4	0.7	5.0	<0.1	3.2	8.6
Common cocklebur	9.4	3.5	36.9	0.8	8.5	<0.1	3.2	8.5
Canola	5.1	2.5	48.6	1.6	31.4	<0.1	10.3	7.9
Common lambsquarters	8.7	2.2	25.0	0.4	4.9	<0.1	2.3	6.1
Common mallow	8.0	1.4	17.3	0.8	9.8	<0.1	8.1	5.9
Field bindweed	7.2	1.7	24.0	0.3	4.6	<0.1	2.2	4.9
Annual smartweed	6.5	1.2	18.9	0.4	5.6	<0.1	3.8	4.3
Flixweed/Tansy mustard	5.8	1.6	27.5	0.2	3.9	<0.1	1.6	4.1
Common purslane	3.6	1.6	44.0	0.5	14.6	<0.1	4.4	4.0
Shepherd's-purse	2.2	1.1	50.0	0.8	38.0	<0.1	11.3	3.7
Eastern black nightshade	4.3	1.0	23.3	0.2	5.2	<0.1	2.8	3.0
Perennial sowthistle	4.3	0.7	15.0	0.2	5.0	<0.1	3.5	2.6
Lanceleaf sage	2.2	1.0	46.7	0.2	10.8	<0.1	4.3	2.3
Dandelion	3.6	0.6	16.0	0.1	2.2	<0.1	1.4	2.0
Buffalobur	2.9	0.6	20.0	0.1	3.2	<0.1	1.8	1.8
Giant ragweed	2.2	0.6	26.7	0.1	5.4	<0.1	2.0	1.6
Sunflower	1.4	0.5	35.0	0.2	11.8	<0.1	3.5	1.4
Common chickweed	1.4	0.1	10.0	0.2	14.0	<0.1	13.0	1.1
Corn	0.7	0.4	50.0	0.2	24.8	<0.1	9.0	1.0
Flax	0.7	0.5	70.0	0.1	10.8	<0.1	2.0	0.9
Barnyardgrass	1.4	0.3	20.0	<0.1	2.2	<0.1	1.0	0.8
Downy brome	0.7	0.2	30.0	0.1	19.4	<0.1	8.0	0.8
Safflower	0.7	0.3	40.0	<0.1	5.4	<0.1	2.0	0.6
Fairy candelabra	0.7	0.3	40.0	<0.1	4.3	<0.1	1.0	0.6
Cutleaf nightshade	0.7	0.2	30.0	<0.1	4.3	<0.1	2.0	0.5
Leafy spurge	0.7	0.1	20.0	0.1	7.5	<0.1	6.0	0.5
Horsetail	0.7	0.1	20.0	<0.1	3.2	<0.1	2.0	0.4
Soybean	0.7	0.1	20.0	<0.1	2.2	<0.1	1.0	0.4
Hairy nightshade	0.7	<0.1	<0.1	0.1	8.6	<0.1	21.0	0.4
Alfalfa	0.7	0.1	10.0	<0.1	1.1	<0.1	1.0	0.3
Marshelder	0.7	0.1	10.0	<0.1	1.1	<0.1	1.0	0.3
Prairie wild rose	0.7	0.1	10.0	<0.1	1.1	<0.1	1.0	0.3
Hedge bindweed	0.7	0.1	10.0	<0.1	1.1	<0.1	1.0	0.3
Weed free	45.7	13.4	29.4	-	-	-	-	-

Table 8. North Dakota weed infestations in current crop of sugarbeet based on 8 fields surveyed, spring 2000.

Weed species	Weed							
	Weed Frequency	Field Uniformity		Weed Density		Density Range		Weed Index
	(%)	All (%)	Infested (%)	All -- Plants/m ² --	Infested -- Plants/m ² --	Low	High	
Yellow foxtail	62.5	32.5	52.0	21.7	34.7	<0.1	25.2	103.9
Wild oat	37.5	12.5	33.3	18.7	49.9	0.9	17.7	68.6
Green foxtail	62.5	13.8	22.0	11.2	17.9	0.1	5.4	60.6
Common lambsquarters	50.0	12.5	25.0	4.8	9.7	<0.1	4.8	40.5
Pigweed species	37.5	12.5	33.3	6.3	16.9	<0.1	8.3	39.8
Wild mustard	37.5	8.8	23.3	1.1	2.9	<0.1	1.3	23.8
Kochia	12.5	6.3	50.0	4.6	36.6	<0.1	12.0	21.1
Eastern black nightshade	25.0	7.5	30.0	2.2	8.6	<0.1	5.0	20.9
Canada thistle	25.0	5.0	20.0	2.3	9.1	<0.1	4.5	18.7
Common milkweed	25.0	3.8	15.0	0.9	3.8	<0.1	3.0	14.3
Quackgrass	12.5	2.5	20.0	2.6	20.5	<0.1	11.0	12.6
Volunteer cereal	12.5	1.3	10.0	1.6	12.9	<0.1	12.0	9.2
Common mallow	12.5	1.3	10.0	0.5	4.3	<0.1	4.0	3.7
Wild buckwheat	12.5	1.3	10.0	0.1	1.1	<0.1	1.0	5.7
Weed free	50.0	28.8	57.5	-	-	-	-	-

Table 9. North Dakota weed infestations averaged over all 1551 surveyed fields, spring 2000.

Weed species	Weed							
	Weed Frequency	Field Uniformity		Weed Density		Density Range		Weed Index
	(%)	All (%)	Infested (%)	All -- Plants/m ² --	Infested -- Plants/m ² --	Low	High	
Green foxtail	65.5	24.3	37.1	24.4	37.2	1.9	27.1	103.0
Wild mustard	48.7	17.3	35.5	7.1	14.5	0.1	5.9	50.0
Wild buckwheat	46.4	16.2	34.8	6.2	13.4	0.1	5.2	46.2
Wild oat	31.8	10.9	34.2	6.0	18.8	0.1	8.1	35.4
Canada thistle	38.8	10.1	26.0	3.2	8.2	<0.1	3.7	30.4
Kochia	29.8	9.5	31.8	4.6	15.6	0.1	10.8	30.2
Yellow foxtail	19.6	7.2	36.7	6.1	31.1	0.3	15.7	28.0
Pigweed species	26.3	8.7	33.2	4.0	15.1	<0.1	7.2	26.8
Common lambsquarters	24.9	7.2	28.8	3.3	13.3	<0.1	6.5	23.3
Volunteer cereal	14.7	5.6	38.3	1.8	12.5	<0.1	5.0	14.8
Sunflower	11.5	4.4	38.0	2.4	20.9	<0.1	7.7	13.8
Russian thistle	14.6	4.3	29.1	1.9	13.0	<0.1	6.0	13.5
Quackgrass	15.8	3.5	22.5	1.8	11.4	<0.1	6.2	13.0
Field pennycress	11.6	3.2	28.0	1.2	10.3	<0.1	6.3	9.9
Field bindweed	12.9	3.2	24.5	0.9	7.4	<0.1	3.4	9.7
Common ragweed	11.7	3.0	25.3	1.0	8.3	<0.1	4.9	9.1
Canola	4.8	1.9	38.4	1.3	27.6	<0.1	15.2	6.6
Eastern black nightshade	7.9	2.0	25.4	0.7	8.6	<0.1	4.0	6.2
Common cocklebur	7.3	2.1	29.1	0.6	8.3	<0.1	3.5	6.0
Soybean	6.4	2.0	32.2	0.4	5.7	<0.1	2.3	5.0
Perennial sowthistle	6.6	1.3	19.2	0.4	6.2	<0.1	3.3	4.4
Common milkweed	6.8	1.1	16.3	0.3	4.1	<0.1	2.6	4.0
Prickly lettuce	5.7	1.3	22.4	0.3	4.9	<0.1	2.6	3.9
Common mallow	4.5	1.1	24.3	0.4	8.4	<0.1	5.0	3.5
Flixweed/Tansy mustard	4.8	1.1	23.5	0.2	4.0	<0.1	2.0	3.2
Annual smartweed	3.8	0.8	20.0	0.4	9.7	<0.1	8.3	2.9
Dandelion	3.9	0.9	22.7	0.1	3.5	<0.1	1.7	2.5

Table 9 (continued).

Wild-proso millet	1.9	0.6	33.6	0.4	18.1	<0.1	8.4	2.1
Shepherd's-purse	1.9	0.5	27.9	0.3	15.5	<0.1	7.1	1.9
Barnyardgrass	1.9	0.6	31.4	0.3	13.0	<0.1	6.9	1.8
Common purslane	1.9	0.5	24.3	0.1	6.7	<0.1	2.4	1.4
Flax	1.0	0.4	43.6	0.3	26.1	<0.1	12.4	1.3
Fairy candelabra	1.5	0.4	25.9	0.1	7.6	<0.1	3.3	1.2
Prairie wild rose	1.7	0.3	16.8	0.1	3.2	<0.1	2.1	1.0
Downy brome	1.0	0.2	25.0	0.1	11.1	<0.1	5.5	0.8
Sweetclover	1.0	0.2	24.0	0.1	7.5	<0.1	3.7	0.8
Giant ragweed	0.9	0.2	27.7	0.1	6.9	<0.1	2.8	0.7
Horseweed	1.1	0.2	20.6	<0.1	3.1	<0.1	1.6	0.7
Lanceleaf sage	0.8	0.2	32.7	0.1	8.9	<0.1	3.5	0.7
Hedge bindweed	0.8	0.2	25.8	<0.1	4.6	<0.1	1.8	0.6
Biennial wormwood	0.8	0.2	25.8	<0.1	3.3	<0.1	1.5	0.6
Curly dock	0.9	0.1	15.4	<0.1	3.6	<0.1	2.7	0.5
Nightflowering catchfly	0.6	0.2	28.9	0.1	8.5	<0.1	2.8	0.5
Prostrate pigweed	0.7	0.2	26.0	<0.1	6.1	<0.1	3.0	0.5
Yellow woodsorrel	0.6	0.1	26.3	0.1	11.4	<0.1	4.9	0.5
Greenflower pepperweed	0.9	0.1	14.6	<0.1	2.0	<0.1	1.3	0.5
Foxtail barley	0.8	0.1	12.5	<0.1	4.2	<0.1	2.6	0.5
Whitlowwart species	0.7	0.1	21.0	<0.1	3.1	<0.1	1.7	0.4
Alfalfa	0.6	0.1	22.2	<0.1	4.1	<0.1	2.0	0.4
Common chickweed	0.6	0.1	14.4	<0.1	6.5	<0.1	7.6	0.4
Field sandbur	0.2	<0.1	6.7	0.1	61.7	<0.1	22.7	0.4
Leafy spurge	0.3	0.1	34.0	0.1	14.9	<0.1	5.4	0.4
Marshelder	0.7	0.1	13.0	<0.1	1.9	<0.1	1.5	0.4
Cutleaf nightshade	0.5	0.1	20.0	<0.1	4.5	<0.1	3.0	0.3
Corn	0.3	0.1	28.0	<0.1	8.2	<0.1	3.6	0.3
Venice mallow	0.4	0.1	16.7	<0.1	6.6	<0.1	6.0	0.3
Hairy nightshade	0.4	<0.1	6.7	<0.1	9.7	<0.1	7.7	0.3
Dry bean	0.4	0.1	16.7	<0.1	2.7	<0.1	1.7	0.2
Safflower	0.2	0.1	50.0	<0.1	11.1	<0.1	2.7	0.2
Tall waterhemp	0.3	0.1	18.0	<0.1	3.0	<0.1	1.6	0.2
Purslane speedwell	0.3	0.1	16.0	<0.1	3.7	<0.1	2.6	0.2
Buffalobur	0.3	0.1	18.0	<0.1	2.8	<0.1	1.6	0.2
Swamp smartweed	0.3	0.1	20.0	<0.1	2.2	<0.1	1.0	0.2
False chamomile	0.3	<0.1	15.0	<0.1	1.6	<0.1	1.0	0.1
Field pea	0.1	0.1	45.0	<0.1	9.7	<0.1	2.0	0.1
Erect knotweed	0.2	<0.1	16.7	<0.1	5.7	<0.1	2.7	0.1
Horsetail	0.2	<0.1	13.3	<0.1	3.9	<0.1	3.3	0.1
Wild vetch	0.2	<0.1	13.3	<0.1	1.4	<0.1	1.0	0.1
Lentil	0.1	<0.1	5.0	<0.1	7.0	<0.1	24.0	0.1
Yellow nutsedge	0.1	<0.1	10.0	<0.1	3.8	<0.1	3.5	0.1
Russian thistle	0.1	<0.1	10.0	<0.1	1.1	<0.1	1.0	0.1
Smallseed falseflax	0.1	<0.1	10.0	<0.1	1.1	<0.1	1.0	<0.1
Prostrate spurge	0.1	<0.1	10.0	<0.1	1.1	<0.1	1.0	<0.1
Weed free	36.1	11.4	31.7	-	-	-	-	-

Table 10. The 20 most abundant weeds in North Dakota based on weed index.

Spring 2000		Summer 2000		Average of 1978 and 1979	
Weed species	Weed Index	Weed species	Weed Index	Weed species	Weed Index
Green foxtail	103.0	Green foxtail	73.8	Green foxtail	236.0
Wild mustard	50.0	Wild oat	38.8	Wild oat	61.8
Wild buckwheat	46.2	Yellow foxtail	37.5	Wild buckwheat	53.3
Wild oat	35.4	Kochia	33.1	Redroot pigweed	42.4
Canada thistle	30.4	Wild buckwheat	28.6	Yellow foxtail	28.5
Kochia	30.2	Canada thistle	26.5	Common lambsquarters	24.7
Yellow foxtail	28.0	Pigweed species	19.6	Wild mustard	22.8
Pigweed species	26.8	Volunteer cereal	10.6	Russian thistle	19.3
Common lambsquarters	23.3	Common ragweed	10.4	Kochia	16.9
Volunteer cereal	14.8	Field bindweed	8.7	Field bindweed	11.5
Sunflower	13.8	Common lambsquarters	8.6	Canada thistle	10.7
Russian thistle	13.5	Quackgrass	8.6	Volunteer sunflower	8.0
Quackgrass	13.0	Russian thistle	7.7	Perennial sowthistle	7.5
Field pennycress	9.9	Wild mustard	7.1	Prostrate pigweed	5.8
Field bindweed	9.7	Eastern black nightshade	5.6	Nightflowering catchfly	5.4
Common ragweed	9.1	Perennial sowthistle	5.3	Quackgrass	3.9
Canola	6.6	Common milkweed	5.1	Prairie wild rose	3.6
Eastern black nightshade	6.2	Sunflower	4.5	Field pennycress	3.0
Common cocklebur	6.0	Common cocklebur	4.4	Ragweed	2.5
Soybean	5.0	Field pennycress	4.3	Common cocklebur	2.2

Table 11. The 20 most abundant weeds in HRS wheat, durum wheat, barley, tame oats.

Spring 2000		Summer 2000		Average of 1978 and 1979	
HRS wheat, durum wheat, barley, tame oat		HRS wheat, durum wheat, barley		Spring wheat, barley, oat	
Weed species	Weed Index	Weed species	Weed Index	Weed species	Weed Index
Green foxtail	114.0	Green foxtail	82.3	Green foxtail	250.2
Wild buckwheat	54.2	Wild oat	52.6	Wild oat	64.5
Wild mustard	48.8	Yellow foxtail	43.2	Common lambsquarters	62.1
Wild oat	36.4	Wild buckwheat	35.3	Wild buckwheat	57.8
Kochia	35.8	Kochia	35.3	Redroot pigweed	41.4
Pigweed species	29.8	Canada thistle	25.6	Yellow foxtail	27.7
Canada thistle	26.3	Pigweed species	18.7	Russian thistle	22.6
Yellow foxtail	23.1	Field bindweed	9.9	Wild mustard	20.5
Common lambsquarters	22.8	Quackgrass	9.0	Kochia	18.7
Sunflower	17.9	Common lambsquarters	7.9	Field bindweed	13.4
Russian thistle	16.9	Common ragweed	7.6	Canada thistle	11.4
Field bindweed	11.9	Russian thistle	6.8	Volunteer sunflower	9.4
Field pennycress	11.4	Common milkweed	6.7	Perennial sowthistle	9.2
Quackgrass	10.4	Perennial sowthistle	4.8	Nightflowering catchfly	6.2
Common ragweed	8.9	Sunflower	4.1	Prostrate pigweed	5.5
Canola	8.5	Wild mustard	4.0	Quackgrass	4.8
Soybean	6.1	Field pennycress	3.8	Prairie wild rose	3.9
Eastern black nightshade	5.4	Barnyardgrass	3.2	Common cocklebur	2.5
Perennial sowthistle	5.2	Common cocklebur	3.0	Common purslane	2.1
Volunteer cereal	4.2	Common mallow	2.6	Ragweed	1.8

Table 12. The 20 most abundant weeds in flax.

Spring 2000		Average of 1978 and 1979	
Weed species	Weed Index	Weed species	Weed Index
Green foxtail	129.4	Green foxtail	201.1
Wild mustard	69.6	Wild buckwheat	64.1
Wild buckwheat	68.1	Wild mustard	52.8
Volunteer cereal	52.7	Wild oat	44.2
Wild oat	52.1	Redroot pigweed	43.1
Kochia	39.7	Common lambsquarters	36.0
Yellow foxtail	35.2	Yellow foxtail	30.4
Field pennycress	27.4	Russian thistle	23.8
Canada thistle	26.3	Kochia	21.5
Quackgrass	21.4	Canada thistle	12.7
Pigweed species	20.4	Field bindweed	12.4
Common lambsquarters	17.7	Barnyardgrass	10.4
Field bindweed	17.4	Volunteer sunflower	9.7
Canola	12.3	Prostrate spurge	8.2
Russian thistle	11.5	Perennial sowthistle	7.9
Shepherd's-purse	9.9	Prostrate pigweed	7.7
Flixweed/Tansy mustard	8.8	Field pennycress	6.7
Downy brome	7.9	Quackgrass	6.6
Sunflower	6.3	Common cocklebur	5.6
Perennial sowthistle	5.7	Musk thistle	3.9

Table 13. The 20 most abundant weeds in sunflower.

Spring 2000		Summer 2000		1979	
Weed species	Weed Index	Weed species	Weed Index	Weed species	Weed Index
Green foxtail	100.8	Green foxtail	92.0	Green foxtail	149.6
Wild mustard	67.6	Yellow foxtail	39.1	Wild mustard	57.0
Canada thistle	43.7	Kochia	31.5	Yellow foxtail	46.1
Volunteer cereal	41.8	Canada thistle	31.5	Redroot pigweed	32.9
Wild buckwheat	34.1	Wild buckwheat	29.3	Wild buckwheat	30.5
Wild oat	32.6	Volunteer cereal	29.2	Wild oat	28.0
Yellow foxtail	27.1	Pigweed species	25.9	Common lambsquarters	27.1
Pigweed species	25.2	Wild oat	21.8	Canada thistle	15.4
Kochia	21.5	Common ragweed	18.4	Russian thistle	12.8
Quackgrass	17.3	Russian thistle	15.4	Kochia	11.8
Prickly lettuce	10.5	Eastern black nightshade	13.1	Field bindweed	9.3
Russian thistle	10.0	Field bindweed	11.6	Prostrate spurge	8.6
Common ragweed	9.8	Canola	11.3	Quackgrass	7.9
Field pennycress	9.4	Prickly lettuce	10.8	Prostrate pigweed	7.3
Common milkweed	8.6	Wild mustard	10.5	Ragweed	6.8
Common cocklebur	8.5	Flixweed/Tansy mustard	10.0	Field pennycress	6.6
Canola	7.9	Common lambsquarters	9.6	Perennial sowthistle	5.7
Common lambsquarters	6.1	Quackgrass	9.3	Prairie wild rose	4.8
Common mallow	5.9	Perennial sowthistle	7.6	Common purslane	4.6
Field bindweed	4.9	Field pennycress	6.6	Shepherd's-purse	3.8