



**Souris-Red-Rainy
Water Resource Region 09
HUC6 Level Watersheds**

Source: U.S. Geological Survey

**Souris-Red-Rainy
Water Resource Region 09**

Watershed Name	Hydrologic Unit Code
Souris	090100
Upper Red	090201
Devils Lake-Sheyenne	090202
Lower Red	090203
Rainy	090300
Upper South Saskatchewan River	090400

Table 1. Summary by Hydrologic Unit Code: 2017 and 2012 (continued)

[For meaning of abbreviations and symbols, see introductory text.]

Item	United States		H09 Souris-Red-Rainy		H090100	
	2017	2012	2017	2012	2017	2012
FARMS AND LAND IN FARMS						
Farms	2,042,220	2,109,303	24,400	28,266	3,389	4,313
Land in farms	900,217,576	914,527,657	24,976,829	25,107,907	5,006,643	4,929,155
LAND USE AND PRACTICES						
Total cropland	1,475,627	1,551,654	22,335	25,872	3,015	3,835
Harvested cropland	396,433,817	389,690,414	21,367,267	20,937,511	3,967,511	3,716,479
Other pasture and grazing land that could have been used for crops without additional improvement	1,245,548	1,288,875	16,414	17,470	2,374	2,709
Cropland idle or used for cover crops or soil-improvement but not harvested and not pastured or grazed	320,041,858	314,964,600	18,947,603	18,212,601	3,462,801	3,187,741
Cropland on which all crops failed or were abandoned	137,707	141,537	1,078	1,392	175	216
Cropland in summer fallow (see text)	13,825,975	12,802,847	182,131	140,710	82,734	37,145
Total woodland	374,252	381,453	10,667	13,365	1,318	1,915
Woodland pastured	36,003,378	36,382,032	1,852,056	2,222,186	325,955	405,606
Woodland not pastured	79,334	97,248	1,124	1,307	204	291
Permanent pasture and rangeland, other than cropland and woodland pastured	9,542,580	11,395,368	213,276	196,088	44,851	50,019
Land in farmsteads, homes, buildings, livestock facilities, ponds, roads, wasteland, etc.	94,106	61,442	1,313	1,277	215	235
Irrigated land	17,020,026	14,145,567	172,201	165,926	51,170	35,968
Harvested cropland	794,789	840,399	6,122	7,334	364	477
Pastureland and other land	73,092,054	77,012,907	583,597	667,507	85,075	82,402
Cropland on which no-till practices were used	326,279	350,761	2,023	2,637	197	260
Cropland on which reduced tillage, excluding no till, practices were used (see text)	26,009,273	27,999,006	166,612	205,285	41,304	42,221
Fertilizers and chemicals	575,911	606,279	4,931	5,716	216	287
Commercial fertilizer, lime, and soil conditioners used	47,082,781	49,013,901	416,985	462,222	43,771	40,181
Manure used	1,130,063	1,176,156	7,117	9,037	1,449	2,053
Organic fertilizer used (see text)	400,771,178	415,309,280	2,078,654	2,325,657	766,263	899,728
Acres treated to control -	1,183,307	1,338,485	13,342	17,403	1,792	2,601
Insects	29,920,527	32,515,057	947,311	1,177,232	187,794	230,546
Weeds, grass, or brush	294,235	296,303	658	609	55	36
Nematodes	58,013,907	55,822,231	216,999	176,940	7,652	(D)
Diseases in crops and orchards	255,348	261,281	640	592	53	36
Chemicals used to control growth, thin fruit, ripen, or defoliate	53,959,077	52,092,384	216,620	174,450	7,625	(D)
Acres on which used	64,450	60,330	31	34	3	1
Commercial fertilizer, lime, and soil conditioners used	4,054,830	3,729,847	379	2,490	27	(D)
Manure used	279,370	278,290	2,551	2,534	757	920
Organic fertilizer used (see text)	104,452,339	96,476,496	2,574,345	2,371,734	1,400,745	1,360,225
Acres treated to control -	217,069	195,738	5,937	4,440	952	743
Insects	97,753,854	76,639,804	7,952,924	5,055,516	1,611,967	1,074,637
Weeds, grass, or brush						
Nematodes						
Diseases in crops and orchards						
Chemicals used to control growth, thin fruit, ripen, or defoliate						
FERTILIZERS AND CHEMICALS						
Commercial fertilizer, lime, and soil conditioners used	881,431	877,907	12,917	13,671	1,706	1,937
Manure used	253,766,165	247,802,465	14,528,041	14,037,440	2,618,888	2,456,867
Organic fertilizer used (see text)	297,297	275,420	2,622	2,473	301	284
Acres treated to control -	23,888,525	22,072,968	206,961	217,550	22,540	30,585
Insects	50,105	(NA)	166	(NA)	13	(NA)
Weeds, grass, or brush	3,454,441	(NA)	51,304	(NA)	6,983	(NA)
Nematodes	306,214	361,286	6,951	6,030	419	693
Diseases in crops and orchards	112,440,971	100,719,008	6,782,902	5,207,401	476,072	728,859
Chemicals used to control growth, thin fruit, ripen, or defoliate	702,075	794,320	12,483	14,529	1,735	2,133
Acres on which used	292,998,284	285,510,954	17,732,528	17,132,450	3,233,624	2,977,148
Commercial fertilizer, lime, and soil conditioners used	46,714	58,865	676	546	32	29
Manure used	14,672,861	14,454,000	499,593	344,517	(D)	(D)
Organic fertilizer used (see text)	121,023	121,682	4,060	4,084	573	802
Acres treated to control -	44,296,251	35,006,868	4,489,880	4,185,709	750,566	999,940
Insects	38,207	53,200	933	943	127	119
Weeds, grass, or brush	14,743,773	13,136,568	726,355	655,804	139,236	88,811
Nematodes						
Diseases in crops and orchards						
Chemicals used to control growth, thin fruit, ripen, or defoliate						
SELECTED CROPS						
Corn, all	328,101	376,179	6,100	6,982	440	526
Soybeans, for beans	90,847,976	94,609,673	3,171,757	3,270,858	152,165	124,971
Small grains (wheat, oats, barley, rye)	303,191	302,963	10,138	9,516	1,102	526
Cotton, all	90,149,480	76,104,780	7,339,908	5,323,733	877,888	207,228
Rice	127,484	184,481	7,940	9,400	1,400	1,788
Land in vegetables (see text)	42,159,714	53,668,136	4,682,811	5,660,938	1,327,915	1,746,433
Land in orchards (see text)	16,149	18,155	-	-	-	-
Nursery, greenhouse, floriculture, and sod (see text)	11,401,965	9,384,080	-	-	-	-
All other crops (other than those listed above)	4,637	5,591	-	-	-	-
Cattle and calves inventory	2,395,054	2,693,759	-	-	-	-
Hogs and pigs inventory	74,276	72,045	404	329	22	26
Sheep and lambs inventory (see text)	3,965,622	4,180,891	79,077	89,424	(D)	(D)
Total horses and ponies inventory	111,955	106,488	156	75	16	10
Goats, all inventory	5,665,600	5,199,729	331	268	(D)	42
Chickens, all inventory (see text)	48,643	54,557	127	127	13	13
All other crops (other than those listed above)	859,246	892,089	1,312	875	80	(D)
Cattle and calves inventory	908,673	931,925	10,931	12,026	2,047	2,379
Hogs and pigs inventory	75,154,871	72,024,554	3,672,415	3,866,855	1,104,701	1,108,309
Sheep and lambs inventory (see text)						
Total horses and ponies inventory						
Goats, all inventory						
Chickens, all inventory (see text)						
All other crops (other than those listed above)						
LIVESTOCK AND POULTRY						
Cattle and calves inventory	882,692	913,246	5,549	6,286	1,005	1,254
Hogs and pigs inventory	93,648,041	89,994,614	758,812	753,658	166,019	188,831
Sheep and lambs inventory (see text)	66,439	63,246	261	295	15	18
Total horses and ponies inventory	72,381,007	66,026,785	261,581	271,172	(D)	(D)
Goats, all inventory	101,387	88,338	416	473	50	87
Chickens, all inventory (see text)	5,391,252	5,364,844	38,833	39,151	3,601	5,495
All other crops (other than those listed above)	459,526	504,795	2,562	3,370	528	737
Cattle and calves inventory	2,847,289	3,621,348	16,073	25,616	3,701	6,292
Hogs and pigs inventory	136,442	128,456	362	326	38	36
Sheep and lambs inventory (see text)	2,698,636	2,621,514	5,275	4,443	673	(D)
Total horses and ponies inventory	256,036	221,779	915	939	99	119
Goats, all inventory	2,127,170,289	1,974,854,740	1,163,472	1,375,447	2,787	6,656
Chickens, all inventory (see text)						
All other crops (other than those listed above)						

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Table 1. Summary by Hydrologic Unit Code: 2017 and 2012 (continued)

[For meaning of abbreviations and symbols, see introductory text.]

Item	H090201		H090202		H090203	
	2017	2012	2017	2012	2017	2012
FARMS AND LAND IN FARMS						
Farms number	7,801	8,704	4,735	5,614	7,635	8,685
Land in farms acres	6,112,307	6,198,430	6,521,022	6,542,947	6,957,216	6,955,503
LAND USE AND PRACTICES						
Total cropland farms	7,150	7,956	4,385	5,173	7,079	8,125
Harvested cropland acres	5,485,816	5,400,118	5,511,113	5,504,466	6,202,232	6,087,874
Other pasture and grazing land that could have been used for crops without additional improvement farms	5,379	5,634	3,193	3,403	4,857	5,080
..... acres	5,083,839	4,940,581	4,811,313	4,716,104	5,431,012	5,207,737
Cropland idle or used for cover crops or soil-improvement but not harvested and not pastured or grazed farms	297	387	201	231	334	467
..... acres	24,603	27,136	40,630	26,070	29,450	37,891
Cropland on which all crops failed or were abandoned farms	3,226	3,736	2,211	3,016	3,737	4,496
..... acres	343,186	381,561	500,588	632,927	660,121	771,426
Cropland in summer fallow (see text) farms	291	325	319	333	252	297
..... acres	18,077	33,532	109,833	71,404	38,615	37,146
Total woodland farms	218	214	302	240	475	464
..... acres	16,111	17,308	48,749	57,961	43,034	33,674
Woodland pastured farms	2,076	2,550	484	648	2,641	3,074
..... acres	143,326	174,637	25,228	34,970	260,913	310,687
Woodland not pastured farms	619	891	153	234	630	990
..... acres	31,121	49,451	(D)	16,005	69,367	81,687
Permanent pasture and rangeland, other than cropland and woodland pastured farms	1,717	2,015	369	472	2,189	2,493
..... acres	112,205	125,186	(D)	18,965	191,546	229,000
Land in farmsteads, homes, buildings, livestock facilities, ponds, roads, wasteland, etc. farms	1,950	2,431	1,561	2,023	1,790	2,041
..... acres	236,199	322,099	700,430	669,821	281,132	269,153
Irrigated land farms	4,438	5,548	2,454	3,426	4,100	5,175
..... acres	246,966	301,576	284,251	333,690	212,939	287,789
Harvested cropland farms	307	281	115	122	135	131
..... acres	106,413	82,386	43,150	31,964	49,495	47,857
Pastureland and other land farms	304	278	113	120	126	122
..... acres	106,333	82,279	43,061	31,502	49,344	(D)
Cropland on which no-till practices were used farms	8	6	6	9	11	10
..... acres	80	107	89	462	151	(D)
Cropland on which reduced tillage, excluding no till, practices were used (see text) farms	619	532	711	699	408	328
..... acres	285,308	196,500	667,670	632,618	186,127	129,570
FERTILIZERS AND CHEMICALS						
Commercial fertilizer, lime, and soil conditioners used farms	4,482	4,581	2,582	2,799	3,921	4,106
..... acres treated	3,653,321	3,594,675	3,783,534	3,678,699	4,382,067	4,221,816
Manure used farms	1,022	1,048	556	474	626	549
..... acres treated	90,197	86,542	42,744	53,765	45,271	42,650
Organic fertilizer used (see text) farms	57	(NA)	28	(NA)	47	(NA)
..... acres	6,507	(NA)	15,932	(NA)	19,478	(NA)
Acres treated to control - Insects farms	2,594	2,241	1,107	1,067	2,749	1,974
..... acres	2,041,879	1,500,316	1,315,539	1,122,452	2,891,743	1,833,247
Weeds, grass, or brush farms	4,323	4,924	2,604	2,996	3,663	4,255
..... acres	4,740,634	4,711,257	4,551,373	4,515,255	5,100,164	4,822,162
Nematodes farms	296	208	116	92	230	211
..... acres	168,668	106,304	158,052	76,922	146,123	132,471
Diseases in crops and orchards farms	921	823	756	817	1,772	1,616
..... acres	689,064	551,821	897,929	804,449	2,118,756	1,806,901
Chemicals used to control growth, thin fruit, ripen, or defoliate farms	136	147	219	276	441	396
..... acres on which used	69,060	81,675	194,873	217,479	319,036	266,359
SELECTED CROPS						
Corn, all farms	3,083	3,522	1,437	1,662	1,122	1,238
..... acres	1,657,507	1,707,110	897,995	975,538	460,126	457,721
Soybeans, for beans farms	3,677	3,745	2,171	2,240	3,096	2,918
..... acres	2,314,407	2,027,799	2,117,735	1,682,649	1,981,207	1,381,295
Small grains (wheat, oats, barley, rye) farms	1,955	2,294	1,688	1,937	2,784	3,217
..... acres	585,506	652,894	1,074,087	1,268,059	1,661,703	1,940,584
Cotton, all farms	-	-	-	-	-	-
..... acres	-	-	-	-	-	-
Rice farms	-	-	-	-	-	-
..... acres	-	-	-	-	-	-
Land in vegetables (see text) farms	119	90	28	33	187	154
..... acres	9,680	13,051	3,044	(D)	65,750	71,942
Land in orchards (see text) farms	74	30	14	13	38	17
..... acres	163	129	(D)	27	95	65
Nursery, greenhouse, floriculture, and sod (see text) farms	56	51	14	9	31	40
..... acres	534	701	(D)	(D)	161	29
All other crops (other than those listed above) farms	2,891	3,165	2,062	2,257	3,385	3,667
..... acres	516,046	538,918	717,909	786,686	1,261,972	1,356,121
LIVESTOCK AND POULTRY						
Cattle and calves inventory farms	1,646	1,950	1,171	1,264	1,437	1,487
..... number	225,207	229,919	212,467	187,914	139,597	131,358
Hogs and pigs inventory farms	123	120	31	40	65	86
..... number	118,041	142,000	82,462	(D)	(D)	57,017
Sheep and lambs inventory (see text) farms	138	157	83	84	120	116
..... number	18,847	18,986	9,492	6,877	6,263	6,070
Total horses and ponies inventory farms	687	922	530	678	624	763
..... number	3,933	6,169	3,064	5,476	3,504	4,999
Goats, all inventory farms	138	115	48	51	102	99
..... number	1,902	1,646	675	597	1,621	1,554
Chickens, all inventory (see text) farms	306	330	118	146	254	235
..... number	987,189	1,111,706	4,948	4,581	163,366	(D)

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Table 1. Summary by Hydrologic Unit Code: 2017 and 2012 (continued)

[For meaning of abbreviations and symbols, see introductory text.]

Item	H090300		H090400	
	2017	2012	2017	2012
FARMS AND LAND IN FARMS				
Farms number	729	809	111	141
Land in farmsacres	254,711	252,041	124,930	229,831
LAND USE AND PRACTICES				
Total cropland farms	641	698	65	85
.....acres	160,586	143,607	40,009	84,967
Harvested cropland farms	565	584	46	60
.....acres	133,032	117,960	25,606	42,478
Other pasture and grazing land that could have been used for crops without additional improvement farms	60	81	11	10
.....acres	3,682	4,716	1,032	7,752
Cropland idle or used for cover crops or soil-improvement but not harvested and not pastured or grazed farms	162	172	13	30
.....acres	18,618	16,389	3,588	14,277
Cropland on which all crops failed or were abandoned farms	49	45	9	16
.....acres	1,360	1,030	540	2,957
Cropland in summer fallow (see text) farms	89	101	14	23
.....acres	3,894	3,512	9,243	17,503
Total woodland farms	547	576	10	9
.....acres	56,543	62,849	12,512	1,962
Woodland pastured farms	216	256	8	6
.....acres	11,612	14,336	(D)	1,585
Woodland not pastured farms	438	445	2	4
.....acres	44,931	48,513	(D)	377
Permanent pasture and rangeland, other than cropland and woodland pastured farms	295	390	72	99
.....acres	23,115	28,708	71,515	136,148
Land in farmsteads, homes, buildings, livestock facilities, ponds, roads, wasteland, etc. farms	517	593	41	60
.....acres	14,467	16,877	894	6,754
Irrigated land farms	34	24	12	15
.....acres	8,622	(D)	1,667	3,377
Harvested cropland farms	32	23	12	13
.....acres	(D)	(D)	(D)	(D)
Pastureland and other land farms	2	3	1	5
.....acres	(D)	25	(D)	(D)
Cropland on which no-till practices were used farms	42	28	14	27
.....acres	5,255	4,282	29,240	48,539
Cropland on which reduced tillage, excluding no till, practices were used (see text) farms	58	33	1	11
.....acres	(D)	17,062	(D)	4,349
FERTILIZERS AND CHEMICALS				
Commercial fertilizer, lime, and soil conditioners used farms	204	222	22	26
.....acres treated	66,895	54,660	23,336	30,723
Manure used farms	108	118	9	-
.....acres treated	5,697	4,008	602	-
Organic fertilizer used (see text) farms	21	(NA)	-	(NA)
.....acres	2,404	(NA)	-	(NA)
Acres treated to control -				
Insects farms	81	53	1	2
.....acres	(D)	(D)	(D)	(D)
Weeds, grass, or brush farms	138	192	20	29
.....acres	85,238	61,536	21,495	45,182
Nematodes farms	2	6	-	-
.....acres	(D)	(D)	-	-
Diseases in crops and orchards farms	34	23	4	3
.....acres	30,850	18,863	2,715	3,735
Chemicals used to control growth, thin fruit, ripen, or defoliate farms	9	5	1	-
.....acres on which used	(D)	1,480	(D)	-
SELECTED CROPS				
Corn, all farms	18	34	-	-
.....acres	3,964	5,518	-	-
Soybeans, for beans farms	92	87	-	-
.....acres	48,671	24,762	-	-
Small grains (wheat, oats, barley, rye) farms	97	133	16	31
.....acres	(D)	22,864	(D)	30,104
Cotton, all farms	-	-	-	-
.....acres	-	-	-	-
Rice farms	-	-	-	-
.....acres	-	-	-	-
Land in vegetables (see text) farms	47	26	1	-
.....acres	564	357	(D)	-
Land in orchards (see text) farms	14	5	-	-
.....acres	(D)	4	-	-
Nursery, greenhouse, floriculture, and sod (see text) farms	12	14	1	-
.....acres	29	9	(D)	-
All other crops (other than those listed above) farms	506	517	40	41
.....acres	63,411	64,447	8,376	12,374
LIVESTOCK AND POULTRY				
Cattle and calves inventory farms	242	272	48	59
.....number	11,235	13,258	4,287	4,378
Hogs and pigs inventory farms	27	31	-	-
.....number	261	370	-	-
Sheep and lambs inventory (see text) farms	23	24	2	5
.....number	(D)	(D)	(D)	(D)
Total horses and ponies inventory farms	124	197	69	73
.....number	779	1,623	1,092	1,057
Goats, all inventory farms	35	24	1	1
.....number	(D)	373	(D)	(D)
Chickens, all inventory (see text) farms	132	106	6	3
.....number	5,088	(D)	94	30