

Ward County, North Dakota
 AGR-North Dakota Productivity Index, with soybean adjustments

MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
Ad (cts2)	Alluvial land	40	Channel	---	70	0	39
		33	Alluvial Land	65		60	
		12	La Prairie, occasionally flooded	100		95	
		9	Velva, occasionally flooded	67		62	
		6	Lamoure, frequently flooded	40		30	
BaE (ctsb)	Barnes loam, strongly sloping				47		41
		85	Barnes	48		43	
		6	Buse	35		20	
		4	Tonka, undrained	40		35	
		3	Parnell, undrained	20		15	
BoB (ctsj)	Bowbells loam, gently sloping	2	Hamerly	85		70	
					93		88
		85	Bowbells	95		90	
		8	Williams	85		80	
		3	Tonka	85		80	
Br (ctsl)	Bowbells-Tonka complex	2	Hamerly	85		70	
		2	Max	80		75	
					96		90
		75	Bowbells	100		95	
		10	Tonka	85		80	
BtA (ctsm)	Bowbells-Williams complex, nearly level	7	Hamerly	85		70	
		6	Parnell	75		70	
		2	Williams	90		85	
					94		89
		60	Bowbells	100		95	
		25	Williams	90		85	
		5	Hamerly	85		70	
		5	Parnell	75		70	
		3	Tonka	85		80	
		2	Vallers	70		55	

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BvC (ctsp)	Buse-Barnes loams, rolling	60	Buse	46	57	31	46
		25	Barnes	64		59	
		6	Svea	100		95	
		4	Parnell	75		70	
		3	Tonka	85		80	
		2	Hamerly	85		70	
C2A (2q0rr)	Tonka silt loam, 0 to 1 percent slopes	80	Tonka	85	83	80	77
		6	Parnell	75		70	
		5	Bowbells	100		95	
		5	Hamerly	85		70	
		4	Vallers, saline	35		20	
C3A (2pwf7)	Parnell silty clay loam, 0 to 1 percent slopes	86	Parnell	75	72	70	66
		4	Vallers, saline	35		20	
		3	Southam	50		40	
		3	Tonka	85		80	
		2	Marysland, very poorly drained	50		35	
		1	Colvin	70		55	
		1	Manfred, very poorly drained	20		15	
C5A (2q539)	Southam silty clay loam, 0 to 1 percent slopes	76	Southam, undrained	0	6	0	5
		6	Parnell, undrained	20		15	
		5	Vallers, saline	35		20	
		5	Water, intermittent	0		0	
		3	Marysland, very poorly drained	50		35	
		3	Minnewaukan	35		30	
		2	Lallie	50		40	
C16A (2q58v)	Heil silt loam, 0 to 1 percent slopes	90	Heil	35	37	30	31

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C18A (2q77v)	McKenzie silty clay loam, very strongly saline, 0 to 1 percent slopes	3	Dimmick	70	6	65	4
		3	Manfred, very poorly drained	20		15	
		2	Hamerly	85		70	
		1	Colvin, saline	35		20	
		1	Miranda	30		25	
		80	McKenzie, very poorly drained, very strongly sal.	0		0	
		7	Lallie, saline	25		15	
		6	Minnewaukan	35		30	
		4	Wamduska, west	7		2	
		3	Minnewasta	50		40	
C21A (2q3bt)	Vallers loam, 0 to 1 percent slopes	69	Vallers	70	70	55	56
		13	Hamerly	85		70	
		7	Vallers, saline	35		20	
		5	Tonka	85		80	
		3	Parnell	75		70	
		2	Balaton, west	71		66	
		1	Noonan	45		40	
		45	Vallers, saline	35		20	
		30	Parnell	75		70	
		9	Hamerly	85		70	
C23A (2q3bs)	Vallers, saline-Parnell complex, 0 to 1 percent slopes	5	Divide, saline	33	55	18	44
		3	Balaton, west	71		66	
		3	Southam	50		40	
		3	Tonka	85		80	
		2	Noonan	45		40	

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C40A (2q39y)	Arveson loam, 0 to 1 percent slopes				57		43
		74	Arveson	60		45	
		10	Arveson, very poorly drained	50		35	
		5	Bowdle	60		55	
		5	Stirum	25		20	
		2	Arveson, saline	30		15	
		2	Wyrene	55		40	
		1	Divide	65		50	
		1	Marysland	60		45	
C45A (2q1p4)	Colvin silt loam, 0 to 2 percent slopes				69		55
		87	Colvin	70		55	
		5	Colvin, very poorly drained	60		45	
		4	Marysland	60		45	
		1	Bearden	95		80	
		1	Divide, saline	33		18	
		1	Makoti	95		90	
		1	Wildrose	90		85	
C59A (2q77b)	Ludden silty clay loam, 0 to 1 percent slopes, occasionally flooded				64		59
		83	Ludden, occasionally flooded	70		65	
		7	Lowe, very poorly drained, frequently flooded	30		15	
		5	Fluvaquents, channeled, frequently flooded	0		0	
		3	Velva, occasionally flooded	80		75	
		2	Straw, occasionally flooded	95		90	
C64C (2q83b)	Wamduska, west-Mauvai complex, 1 to 9 percent slopes				32		24
		43	Wamduska, west	7		2	
		41	Mauvais	58		48	
		7	Wabek	19		14	

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C75A (2q2jv)	Vallers loam, saline, 0 to 1 percent slopes	3	Minnewaukan	35	41	30	28
		2	Lallie, saline	25		15	
		2	Stirum	20		15	
		1	Bearden	95		80	
		1	Lallie	50		40	
		70	Vallers, saline	35		20	
		10	Hamerly, saline	43		28	
		7	Parnell	75		70	
		5	Heil	35		30	
		3	Bowbells	100		95	
C132B (2q2jh)	Williams-Zahl loams, 3 to 6 percent slopes	3	Divide, saline	33	77	18	72
		2	Balaton, west	71		66	
		54	Williams	85		80	
		16	Zahl	57		52	
		11	Zahill	57		52	
		10	Bowbells	95		90	
		4	Hamerly	80		65	
		2	Tonka	85		80	
		1	Lehr	43		38	
		1	Noonan	45		40	
C132C (2q2jg)	Williams-Zahl-Zahill complex, 6 to 9 percent slopes	1	Parnell	75	62	70	57
		51	Williams	68		63	
		21	Zahl	46		41	
		15	Zahill	46		41	
		7	Bowbells	95		90	
		2	Hamerly	80		65	
		1	Lehr	34		29	

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C135C (2q73d)	Zahl-Williams-Zahill complex, 6 to 9 percent slopes	1	Noonan	44	58	39	53
		1	Parnell	75		70	
		1	Tonka	85		80	
		38	Zahl	46		41	
		31	Williams	68		63	
		17	Zahill	46		41	
		6	Bowbells	95		90	
		3	Tonka	85		80	
		2	Hamerly	85		70	
		1	Lehr	43		38	
		1	Noonan	43		38	
		1	Parnell	75		70	
C135D (2q52k)	Zahl-Williams loams, 9 to 15 percent slopes	53	Zahl	35	45	30	40
		32	Williams	51		46	
		5	Bowbells	76		71	
		4	Bowbells	95		90	
		2	Parnell, undrained	20		15	
		1	Hamerly	80		65	
		1	Noonan	34		29	
		1	Tonka, undrained	40		35	
		1	Wabek	23		18	
		50	Williams	87		82	
		25	Bowbells	97		92	
		15	Tonka	85		80	
C149B (2q52p)	Williams-Bowbells-To nka complex, 0 to 6 percent slopes	5	Parnell	75	88	70	82
		2	Hamerly	85		70	
		2	Zahill	57		52	

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C153E (2q2jc)	Zahl-Max loams, 15 to 25 percent slopes	1	Noonan	44	39	39	34
		44	Zahl	24		19	
		35	Max	48		43	
		12	Arnegard	76		71	
		5	Parnell, undrained	20		15	
		3	Tonka, undrained	40		35	
C154C (2q2jb)	Zahl-Williams-Bowbel ls loams, 3 to 9 percent slopes	1	Wabek	23	61	18	56
		40	Zahl	46		41	
		24	Williams	68		63	
		16	Bowbells	95		90	
		12	Zahill	46		41	
		3	Hamerly	80		65	
		2	Livona	67		62	
		1	Lehr	34		29	
		1	Parnell	75		70	
		1	Tonka	85		80	
C156F (2q3bd)	Zahl-Max-Bowbells loams, 6 to 35 percent slopes	54	Zahl	24	36	19	31
		22	Max	34		29	
		18	Bowbells	76		71	
		1	Hamerly	80		65	
		1	Noonan	26		21	
		1	Parnell, undrained	20		15	
		1	Southam, undrained	0		0	
		1	Tonka, undrained	40		35	
		1	Wabek	14		9	
		60	Williams, very stony	38		33	
C161C (2q52n)	Williams-Zahl loams, 3 to 9 percent slopes, very stony				45		40

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C165F (2q3b9)	Zahl-Max-Parnell complex, 0 to 35 percent slopes	20	Zahl, very stony	46	33	41	27
		8	Williams	85		80	
		3	Hamerly	80		65	
		3	Parnell, undrained	20		15	
		2	Bowbells	97		92	
		2	Tonka, undrained	40		35	
		1	Lehr	43		38	
		1	Noonan	43		38	
		32	Zahl	24		19	
		24	Max	34		29	
		20	Parnell, undrained	20		15	
		6	Bowbells	76		71	
		4	Hamerly	85		70	
		4	Vallers	70		55	
		3	Southam, undrained	0		0	
C201B (2q3h8)	Bowbells loam, 3 to 6 percent slopes	3	Tonka, undrained	40	90	35	85
		2	Noonan	45		40	
		2	Wabek	17		12	
		73	Bowbells	95		90	
		12	Williams	85		80	
		4	Balaton, west	71		66	
		4	Hamerly	85		70	
		3	Noonan	43		38	
		2	Tonka	85		80	
		1	Bowdle	57		52	
C205A (2q3hb)	Bowbells-Tonka complex, 0 to 3 percent slopes	1	Falkirk	85	90	80	85
		45	Bowbells	100		95	

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C207A (2q3h9)	Bowbells-Parnell complex, 0 to 3 percent slopes	28	Tonka	85	90	80	85
		13	Williams	90		85	
		4	Balaton, west	71		66	
		4	Hamerly	85		70	
		3	Noonan	44		39	
		2	Parnell	75		70	
		1	Lehr	45		40	
		60	Bowbells	100		95	
		20	Parnell	75		70	
		6	Hamerly	85		70	
		5	Williams	85		80	
		4	Balaton, west	71		66	
		3	Noonan	44		39	
C210A (2q3bl)	Williams-Bowbells loams, 0 to 3 percent slopes	2	Tonka	85	88	80	82
		60	Williams	90		85	
		21	Bowbells	100		95	
		8	Zahl	60		55	
		3	Hamerly	85		70	
		2	Noonan	45		40	
		2	Tonka	85		80	
		2	Vallers	70		55	
		1	Lehr	45		40	
		1	Parnell	75		70	
		45	Williams	85		80	
		33	Bowbells	95		90	
		6	Zahl	57		52	
C210B (2q3bk)	Williams-Bowbells loams, 3 to 6 percent slopes	5	Zahill	57	84	52	78

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C214B (2q2jp)	Williams-Balaton west, loams, 3 to 6 percent slopes	3	Hamerly	85	78	70	73
		2	Noonan	45		40	
		2	Tonka	85		80	
		2	Vallers	70		55	
		1	Lehr	45		40	
		1	Parnell	75		70	
		45	Williams	85		80	
		39	Balaton, west	71		66	
		4	Bowbells	100		95	
		4	Vallers	70		55	
		3	Tonka	85		80	
C270A (2q4w3)	Hamerly loam, 0 to 3 percent slopes	3	Zahl	57	82	52	68
		2	Parnell	75		70	
		71	Hamerly	85		70	
		8	Bowbells	100		95	
		6	Hamerly, saline	43		28	
		6	Vallers	70		55	
		4	Tonka	85		80	
		3	Parnell	75		70	
		2	Noonan	45		40	
		45	Hamerly	85		70	
		30	Tonka	85		80	
C272A (2q2ks)	Hamerly-Tonka complex, 0 to 3 percent slopes	6	Hamerly, saline	43	81	28	70
		5	Bowbells	100		95	
		5	Parnell	75		70	
		5	Vallers	70		55	
		2	Divide	65		50	

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C314C (2pwc)	Telfer-Seroco complex, 2 to 9 percent slopes	2	Noonan	45	31	40	26
		55	Telfer	34		29	
		25	Seroco	11		6	
		12	Lihen	45		40	
		4	Hamar	60		55	
		2	Appam	38		33	
		1	Arveson	60		45	
		1	Wyndmere, loamy substratum	70		55	
C316A (2q3gr)	Lihen-Telfer fine sandy loams, 0 to 2 percent slopes	50	Lihen	55	52	50	47
		25	Telfer	50		45	
		10	Telfer	39		34	
		5	Appam	40		35	
		5	Hamar	60		55	
		3	Livona	68		63	
		2	Parshall	70		65	
		54	Lihen	52		47	
C316B (2q3gt)	Lihen-Telfer fine sandy loams, 2 to 6 percent slopes	22	Telfer	48	49	43	44
		10	Telfer	39		34	
		4	Appam	38		33	
		4	Seroco	14		9	
		2	Livona	68		63	
		2	Parshall	68		63	
		2	Tonka	85		80	
		65	Lihen	44		39	
C317B (2q2gq)	Lihen-Telfer loamy fine sands, 0 to 6 percent slopes	20	Telfer	38	45	33	40
		5	Flaxton	67		62	

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C317C (2q3gs)	Lihen-Telfer loamy fine sands, 6 to 9 percent slopes	4	Parshall	67	37	62	32
		3	Appam	38		33	
		3	Hamar	60		55	
		55	Lihen	34		29	
		23	Telfer	30		25	
		12	Flaxton	54		49	
		5	Appam	38		33	
		3	Hamar	60		55	
C337D (2q0rp)	Telfer-Lihen loamy fine sands, 9 to 15 percent slopes	2	Parshall	67	26	62	21
		50	Telfer	23		18	
		30	Lihen	26		21	
		9	Seroco	20		15	
		5	Flaxton	41		36	
		3	Krem	38		33	
		3	Parshall	54		49	
		70	Krem	60		55	
C371A (2q76w)	Krem-Krem thin surface complex, 0 to 3 percent slopes	15	Krem, thin surface	60	57	55	52
		8	Lihen	45		40	
		4	Seroco	34		29	
		3	Appam	40		35	
		48	Krem	58		53	
		40	Krem, Thin surface	58		53	
		5	Lihen	52		47	
		4	Seroco	14		9	
C371B (2q76x)	Krem-Krem thin surface complex, 3 to 6 percent slopes	3	Appam	38	55	33	50
		48	Krem	58		53	
		40	Krem, Thin surface	58		53	
		5	Lihen	52		47	
		4	Seroco	14		9	
		3	Appam	38		33	
		73	Makoti	95		90	
C411A (2q4wq)	Makoti silty clay loam, 0 to 2 percent slopes				92		87

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C412A (2q52x)	Roseglen silt loam, 0 to 2 percent slopes	13	Tansem	85	96	80	91
		6	Roseglen	100		95	
		5	Sakakawea	60		55	
		2	Nutley, west	85		80	
		1	Tonka	85		80	
		78	Roseglen	100		95	
		10	Tansem	85		80	
		5	Sakakawea	60		55	
		3	Makoti	95		90	
		2	Nutley, west	85		80	
C415A (2q1pg)	Tansem loam, 0 to 2 percent slopes	2	Tonka	85	83	80	78
		75	Tansem	85		80	
		9	Sakakawea	57		52	
		8	Roseglen	100		95	
		3	Bearden	95		80	
		2	Lehr	45		40	
		2	Nutley, west	85		80	
		1	Tonka	85		80	
		70	Tansem	85		80	
		15	Sakakawea	57		52	
C418B (2q76g)	Tansem-Sakakawea loams, 2 to 6 percent slopes	7	Roseglen	95	82	90	76
		3	Makoti	95		90	
		2	Alkabo, clayey substratum	75		70	
		2	Nutley, west	80		75	
		1	Williams	85		80	
		70	Wildrose	90		85	
		13	Nutley, west	85		80	
C419A (2q3bn)	Wildrose silty clay, 0 to 2 percent slopes				87		82

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C419B (2q83h)	Wildrose silty clay, 2 to 6 percent slopes	4	Sakakawea	57	84	52	79
		3	Alkabo, clayey substratum	75		70	
		3	Makoti	95		90	
		3	Tansem	85		80	
		2	Hegne	85		70	
		1	Tonka	85		80	
		1	Williams	90		85	
		78	Wildrose	85		80	
		12	Nutley, west	80		75	
		4	Makoti	90		85	
		2	Alkabo, clayey substratum	75		70	
		2	Hegne	85		70	
		1	Tonka	85		80	
C423A (2q76r)	Hegne silty clay, 0 to 1 percent slopes	1	Williams	85	86	80	73
		80	Hegne	85		70	
		9	Fargo	90		85	
		6	Wildrose	90		85	
		5	Makoti	95		90	
C424A (2q77j)	Nutley west, silty clay, 0 to 2 percent slopes	65	Nutley, west	85	85	80	80
		13	Wildrose	90		85	
		10	Tansem	85		80	
		4	Makoti	95		90	
		3	Sakakawea	60		55	
		2	Colvin	70		55	
		2	Tonka	85		80	
		1	Bearden	95		80	
		70	Nutley, west	80		75	
C424B (2q4xc)	Nutley west, silty clay, 2 to 6 percent slopes				81		76

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C427A (2q1pc)	Fargo-Hegne silty clays, 0 to 1 percent slopes	12	Wildrose	90	87	85	79
		6	Sakakawea	57		52	
		5	Tansem	80		75	
		4	Makoti	95		90	
		2	Bearden	95		80	
		1	Williams	87		82	
		60	Fargo	90		85	
		30	Hegne	85		70	
		3	Dovray, very poorly drained	60		55	
		3	Nutley, west	85		80	
C491A (2q3bx)	Straw-Fluvaquents, channeled complex, 0 to 2 percent slopes, frequently flooded	2	Alkabo, clayey substratum	75	42	70	38
		2	Makoti	95		90	
		42	Straw, frequently flooded	70		65	
		30	Fluvaquents, channeled, frequently flooded	0		0	
		8	Velva, rarely flooded	70		65	
		5	Lallie, frequently flooded	38		28	
		4	Lehr	45		40	
		4	Ranslo, occasionally flooded	27		22	
		4	Rhoades	30		25	
		3	Harriet, frequently flooded	25		20	
C556B (2q58s)	Noonan-Miranda loams, 0 to 6 percent slopes				45		39
		45	Noonan	44		39	
		35	Miranda	29		24	
		6	Niobell	71		66	
		5	Williams	90		85	
		3	Zahl	60		55	

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
C559E (2q4xb)	Miranda-Zahl loams, 3 to 25 percent slopes	2	Hamerly, saline	43	27	28	21
		2	Parnell	75		70	
		2	Tonka	85		80	
		33	Miranda	22		17	
		23	Zahl	24		19	
		16	Miranda	28		23	
		12	Noonan	26		21	
		8	Williams	51		46	
		5	Vallers, saline	35		20	
		2	Parnell, undrained	20		15	
C580A (2q2kr)	Harriet-Regan-Stirum complex, 0 to 2 percent slopes, occasionally flooded	1	Wabek	14	36	9	28
		30	Harriet, occasionally flooded	25		20	
		28	Regan, occasionally flooded	65		50	
		27	Stirum, occasionally flooded	20		15	
		7	Miranda	30		25	
		4	Ranslo, occasionally flooded	27		22	
		2	Arveson, saline	30		15	
		1	Noonan	45		40	
		1	Portal	40		35	
		76	Harriet, occasionally flooded	25		20	
C584A (2q4w9)	Harriet loam, 0 to 2 percent slopes	8	Ranslo, occasionally flooded	27	30	22	24
		5	Marysland	60		45	
		3	Lowe, occasionally flooded	70		55	
		2	Noonan	45		40	

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
C665B (2q2k9)	Noonan-Niobell-Williams loams, 0 to 6 percent slopes	2	Stirum, occasionally flooded	25	61	20	55
		1	Fluvaquents, channeled, frequently flooded	0		0	
		1	Moritz, occasionally flooded	85		70	
		1	Regan, moderately saline, occasionally flooded	33		18	
		1	Straw, occasionally flooded	95		90	
		40	Noonan	44		39	
		29	Niobell	71		66	
		18	Williams	85		80	
		5	Miranda	30		25	
		3	Tonka	85		80	
C667A (2q2jn)	Williams-Niobell loams, 0 to 3 percent slopes	2	Hamerly	85	82	70	77
		2	Heil	35		30	
		1	Parnell	75		70	
		58	Williams	90		85	
		28	Niobell	75		70	
		7	Noonan	45		40	
		3	Bowbells	100		95	
		2	Tonka	85		80	
		1	Hamerly	85		70	
		1	Miranda	30		25	
C800A (2q2hq)	Appam sandy loam, 0 to 2 percent slopes	81	Appam	40	41	35	36
		7	Wabek	25		20	
		5	Lehr	45		40	
		3	Divide	65		50	
		2	Parshall	70		65	

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
C800B (2q3gf)	Appam sandy loam, 2 to 6 percent slopes	1	Arveson	60	39	45	33
		1	Lihen	60		55	
		81	Appam	38		33	
		7	Wabek	19		14	
		4	Bowdle	60		55	
		4	Lihen	44		39	
		2	Divide	65		50	
		1	Arveson	60		45	
C810A (2q3gl)	Bowdle loam, 0 to 2 percent slopes	1	Lehr	43	58	38	53
		79	Bowdle	60		55	
		7	Lehr	45		40	
		5	Wabek	25		20	
		3	Arnegard	100		95	
		2	Appam	40		35	
		2	Ruso	40		35	
		1	Falkirk	90		85	
C814B (2q3gm)	Bowdle-Lehr loams, 2 to 6 percent slopes	1	Tonka	85	51	80	46
		44	Bowdle	57		52	
		35	Lehr	43		38	
		10	Wabek	19		14	
		5	Parshall	67		62	
		3	Arnegard	100		95	
		3	Falkirk	85		80	
		78	Lehr	45		40	
C816A (2q3gp)	Lehr loam, 0 to 2 percent slopes	6	Bowdle	60	48	55	43
		5	Wabek	25		20	
		3	Appam	40		35	

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
C816B (2q2h3)	Lehr loam, 2 to 6 percent slopes	3	Arnegard	100	44	95	39
		3	Falkirk	90		85	
		2	Ruso	40		35	
		66	Lehr	43		38	
		13	Wabek	19		14	
		12	Bowdle	60		55	
		4	Falkirk	85		80	
		2	Ruso	39		34	
C825A (2q2hs)	Divide loam, 0 to 2 percent slopes	2	Sakakawea	57	61	52	47
		1	Divide	65		50	
		63	Divide	65		50	
		12	Wyrene	55		40	
		6	Marysland	60		45	
		5	Hamerly	85		70	
		4	Bowdle	60		55	
		4	Divide, saline	33		18	
		3	Lowe, moderately saline, occasionally flooded	20		5	
		2	Arveson	60		45	
		1	Lehr	45		40	
		75	Marysland	60		45	
C829A (2pwf6)	Marysland loam, 0 to 1 percent slopes	7	Divide	65	59	50	45
		6	Harriet, occasionally flooded	25		20	
		4	Lowe, occasionally flooded	70		55	
		3	Hamerly	85		70	
		3	Wyrene	55		40	
		1	Arveson	60		45	
		1	Rauville, occasionally flooded	35		25	

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
C870E (2q737)	Wabek-Lehr-Appam complex, 9 to 25 percent slopes				24		18
		42	Wabek	17		12	
		25	Lehr	22		17	
		20	Appam	23		18	
		4	Divide	65		50	
		4	Marysland	60		45	
		3	Parshall	41		36	
		2	Parnell, undrained	20		15	
C874B (2q3h4)	Wabek-Appam complex, 2 to 6 percent slopes				32		26
		57	Wabek	19		14	
		18	Appam	38		33	
		13	Bowdle	60		55	
		3	Divide	65		50	
		3	Lehr	45		40	
		2	Arveson	60		45	
		2	Marysland	60		45	
C874C (2q3h5)	Wabek-Appam complex, 6 to 9 percent slopes				25		20
		57	Wabek	19		14	
		38	Appam	30		25	
		2	Divide	65		50	
		1	Arveson	60		45	
		1	Lehr	45		40	
		1	Marysland	60		45	
C877B (2q39t)	Wabek-Lehr complex, 2 to 6 percent slopes				33		27
		53	Wabek	19		14	
		27	Lehr	43		38	
		10	Bowdle	58		53	
		6	Arveson	60		45	
		1	Appam	38		33	

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
C877C (2qyft)	Wabek-Lehr complex, 6 to 9 percent slopes	1	Divide	65	29	50	24
		1	Marysland	60		45	
		1	Zahl	57		52	
		51	Wabek	19		14	
		35	Lehr	34		29	
		8	Bowdle	58		53	
		2	Marysland	60		45	
		1	Appam	30		25	
		1	Arveson	60		45	
		1	Divide	65		50	
C895C (2q838)	Wabek-Williams-Zahl complex, 3 to 9 percent slopes, very stony	1	Sakakawea	48	39	43	34
		25	Wabek, very stony	9		4	
		25	Williams, very stony	38		33	
		25	Zahl, very stony	46		41	
		7	Arnegard	95		90	
		6	Williams	68		63	
		5	Appam	38		33	
		4	Divide	65		50	
		3	Parnell, undrained	20		15	
C990F (2q3c2)	Pits, gravel and sand, 0 to 60 percent slopes	70	Pits, Gravel And Sand, extremely gravelly	6	13	1	8
		10	Wabek	14		9	
		5	Appam	38		33	
		5	Bowdle	60		55	
		5	Lehr	43		38	
		5	Water, intermittent	0		0	
C996 (2q58t)	Water	100	Water	0		0	
					0		0

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
C998 (2q52d)	Water, miscellaneous	100	Water, miscellaneous	0	0	0	0
C999F (2q598)	Orthents-Aquents-Urb an land, highway complex, 0 to 35 percent slopes	39	Orthents	11	31	6	22
		18	Aquents	50		45	
		17	Orthents	38		33	
		17	Urban Land, highway	---		0	
		9	Haplustolls	68		63	
F2A (2q3tm)	Tonka silt loam, 0 to 1 percent slopes	73	Tonka	85	81	80	76
		9	Parnell	75		70	
		6	Wyand	90		85	
		4	Vallers	70		55	
		3	Hamerly	85		70	
		3	Manfred	25		20	
		2	Cavour	45		40	
F3A (2q3tn)	Parnell silty clay loam, 0 to 1 percent slopes	64	Parnell	75	69	70	61
		10	Vallers	70		55	
		9	Vallers, moderately saline	35		20	
		6	Southam	50		40	
		5	Tonka	85		80	
		3	Ferney	30		25	
		3	Hamerly	85		70	
F4A (2q3w8)	Southam silty clay loam, 0 to 1 percent slopes	68	Southam	50	49	40	37
		9	Vallers, moderately saline	35		20	
		6	Arveson	50		35	
		5	Water, intermittent	---		0	
		4	Parnell	75		70	
		3	Manfred	25		20	

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
F6A (2q3w9)	Vallers loam, 0 to 1 percent slopes	3	Mauvais	60	70	50	57
		2	Minnewaukan	35		30	
		67	Vallers	70		55	
		13	Hamerly	85		70	
		8	Vallers, moderately saline	35		20	
		5	Tonka	85		80	
		3	Parnell	75		70	
		2	Barnes	85		80	
F25A (2q3wd)	Marysland loam, 0 to 1 percent slopes	2	Cresbard	75	59	70	44
		71	Marysland	60		45	
		11	Divide	65		50	
		7	Marysland, very poorly drained	50		35	
		5	Totten	25		20	
		3	Divide, loamy substratum	70		55	
		3	Marysland, loamy substratum	65		50	
		84	Marysland, very poorly drained	50		35	
F26A (2q3wh)	Marysland loam, very poorly drained, 0 to 1 percent slopes	4	Marysland, moderately saline	33	49	18	34
		3	Divide	65		50	
		3	Marysland, loamy substratum	65		50	
		3	Rauville, frequently flooded	35		25	
		3	Totten	25		20	
		71	Marysland, loamy substratum	65		50	
		11	Divide, loamy substratum	70		55	
		3	Totten	25		20	
F29A (2q3vv)	Marysland loam, loamy substratum, 0 to 1 percent slopes	71	Marysland, loamy substratum	65	63	50	48
		11	Divide, loamy substratum	70		55	
		3	Totten	25		20	

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
F38A (2q3w1)	Arveson fine sandy loam, 0 to 1 percent slopes	7	Marysland, very poorly drained	50	52	35	39
		5	Totten, loamy substratum	30		25	
		3	Divide	65		50	
		3	Marysland	60		45	
		70	Arveson	50		35	
		8	Hamar	60		55	
		6	Wyndmere	65		50	
		5	Tiffany	75		70	
		4	Arveson, moderately saline	25		10	
		3	Borup	70		55	
F43A (2q3w3)	Colvin silt loam, 0 to 1 percent slopes	2	Garborg	60	71	55	56
		2	Stirum	20		15	
		62	Colvin	70		55	
		10	Bearden	95		80	
		8	Arveson	50		35	
		6	Colvin, very poorly drained	60		45	
		5	Perella	90		85	
		3	Colvin, moderately saline	35		20	
		3	Kindred	90		85	
		3	Wyndmere	65		50	
F44A (2q3w4)	Colvin silt loam, very poorly drained, 0 to 1 percent slopes	76	Colvin, very poorly drained	60	61	45	46
		5	Perella	90		85	
		4	Colvin	70		55	
		4	Colvin, moderately saline	35		20	
		4	Marysland, very poorly drained	50		35	

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
F48A (2q4fz)	Lindaas silt loam, 0 to 1 percent slopes	3	Arveson	50	90	35	83
		2	Grano, very poorly drained,MPT	60		55	
		2	Hegne	85		70	
		75	Lindaas	95		90	
		5	Colvin	70		55	
		5	Colvin, moderately saline	35		20	
		3	Aberdeen	75		70	
		3	Bearden	95		80	
		3	Hegne	85		70	
		3	Overly	100		95	
F55A (2q4g1)	Ludden silty clay, 0 to 1 percent slopes, frequently flooded	3	Perella	90	37	85	32
		83	Ludden, frequently flooded	35		30	
		5	Fluvaquents, channeled, frequently flooded	0		0	
		5	Ladelle, rarely flooded	100		95	
		4	Lamoure, frequently flooded	40		30	
		2	Ryan, occasionally flooded	35		30	
		1	Velva, moist, occasionally flooded	80		75	
		37	Hamerly	85		70	
		28	Tonka	85		80	
		7	Wyand	90		85	
F100A (2q4g2)	Hamerly-Tonka complex, 0 to 3 percent slopes	6	Vallers	70	79	55	69
		5	Balaton	71		56	
		5	Parnell	75		70	
		4	Hamerly, moderately saline	43		28	

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
F101A (2q4g3)	Hamerly-Wyard loams, 0 to 3 percent slopes	3	Barnes	80	82	75	71
		3	Cavour	45		40	
		2	Vallers, moderately saline	35		20	
		46	Hamerly	85		70	
		24	Wyard	90		85	
		8	Tonka	85		80	
		7	Balaton	71		56	
		5	Vallers	70		55	
		4	Hamerly, moderately saline	43		28	
		3	Barnes	80		75	
F102A (2q61v)	Hamerly loam, 0 to 3 percent slopes	3	Cresbard	75	84	70	70
		87	Hamerly	85		70	
		4	Divide, loamy substratum	70		55	
		4	Svea	100		95	
		2	Tonka	85		80	
		2	Vallers, moderately saline	35		20	
		1	Cresbard	75		70	
		92	Easby	15		0	
		3	Easby, very strongly saline	0		0	
		3	Vallers, moderately saline	35		20	
F116A (2q4p0)	Easby clay loam, 0 to 1 percent slopes	2	Parnell	75	16	70	2
		60	Vallers, moderately saline	35		20	
		13	Hamerly	85		70	
		8	Vallers	70		55	
		5	Tonka	85		80	
F118A (2q4gb)	Vallers loam, saline, 0 to 1 percent slopes	2	Parnell	75	50	70	36
		60	Vallers, moderately saline	35		20	
		13	Hamerly	85		70	
		8	Vallers	70		55	
		5	Tonka	85		80	

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
F120A (2q4gd)	Vallers, saline-Manfred complex, 0 to 1 percent slopes	4	Hamerly, moderately saline	43	46	28	35
		3	Easby	15		0	
		3	Parnell	75		70	
		2	Barnes	85		80	
		2	Cresbard	75		70	
		32	Vallers, moderately saline	35		20	
		25	Manfred	25		20	
		14	Vallers	70		55	
		7	Hamerly	85		70	
		6	Easby	15		0	
		5	Parnell	75		70	
		5	Wyard, saline-sodic substratum	90		85	
		4	Tonka	85		80	
		2	Ferney	30		25	
F122A (2q4gf)	Svea-Cresbard loams, 0 to 3 percent slopes	41	Svea, saline-sodic substratum	100	82	95	76
		30	Cresbard	75		70	
		5	Barnes	85		80	
		5	Hamerly	85		70	
		4	Ferney	30		25	
		3	Balaton, saline-sodic substratum	71		56	
		3	Cavour	45		40	
		3	Fordville	60		55	
		3	Hamerly, moderately saline	43		28	
		3	Tonka	85		80	
		49	Cavour	45		40	
F125A (2q4gh)	Cavour-Cresbard loams, 0 to 3 percent slopes				60		54

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
F129B (2q4g1)	Cavour-Ferney loams, 3 to 6 percent slopes	25	Cresbard	75	41	70	35
		9	Barnes	85		80	
		5	Ferney	30		25	
		5	Hamerly	85		70	
		3	Svea, saline-sodic substratum	100		95	
		2	Tonka	85		80	
		2	Vallers, moderately saline	35		20	
		50	Cavour	43		38	
		25	Ferney	28		23	
		6	Vallers, moderately saline	35		20	
		5	Balaton, saline-sodic substratum	71		56	
		5	Manfred	25		20	
		4	Hamerly, moderately saline	43		28	
		3	Cresbard	76		71	
F142A (2q4gp)	Svea loam, 0 to 3 percent slopes	2	Svea, saline-sodic substratum	100	95	95	89
		76	Svea	100		95	
		9	Hamerly	85		70	
		6	Cresbard	75		70	
		3	Barnes	80		75	
		2	Divide, loamy substratum	70		55	
		2	Tonka	85		80	
		2	Vallers	70		55	
		73	Svea	95		90	
		9	Hamerly	85		70	
F142B (2q3wn)	Svea loam, 3 to 6 percent slopes	6	Cresbard	75	91	70	85
		3	Barnes	80		75	

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
F143A (2q4gq)	Barnes-Svea loams, 0 to 3 percent slopes	3	Hamlet	100	87	95	81
		2	Divide, loamy substratum	70		55	
		2	Tonka	85		80	
		2	Vallers	70		55	
		39	Barnes	85		80	
		35	Svea	100		95	
		6	Hamerly	85		70	
		3	Balaton	75		60	
		3	Cresbard	75		70	
		3	Parnell	75		70	
		3	Renshaw	45		40	
		3	Swenoda	80		75	
		3	Tonka	85		80	
		2	Buse	57		42	
F143B (2q4gr)	Barnes-Svea loams, 3 to 6 percent slopes	42	Barnes	80	78	75	71
		21	Svea	95		90	
		8	Balaton	71		56	
		5	Buse	57		42	
		4	Hamerly	85		70	
		4	Langhei	48		33	
		4	Renshaw	43		38	
		3	Cresbard	75		70	
		3	Parnell	75		70	
		3	Swenoda	76		71	
		3	Tonka	85		80	
		24	Barnes	64		59	
		23	Buse	46		31	
F143C (2q4gs)	Barnes-Buse-Langhei loams, 6 to 9 percent slopes				59		50

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
F143D (2q4gt)	Barnes-Buse-Langhei loams, 9 to 15 percent slopes	18	Langhei	38	41	23	32
		14	Svea	95		90	
		3	Balaton	71		56	
		3	Cresbard	76		71	
		3	Lanona	67		62	
		3	Parnell	75		70	
		3	Renshaw	43		38	
		3	Sioux	15		10	
		3	Tonka	85		80	
		31	Barnes	48		43	
		24	Buse	35		20	
		15	Langhei	29		14	
		12	Svea	76		71	
		6	Langhei, very stony	15		0	
		3	Lanona	54		49	
F143F (2q4gv)	Buse-Barnes loams, 15 to 35 percent slopes	3	Parnell, undrained	20	29	15	20
		3	Sioux	14		9	
		3	Tonka, undrained	40		35	
		34	Buse	24		9	
		29	Barnes	34		29	
		10	Svea, well drained	54		49	
		9	Langhei	14		0	
		6	Langhei, very stony	7		0	
		3	Lanona	54		49	
		3	Parnell, undrained	20		15	
		3	Sioux	11		6	
		3	Tonka, undrained	40		35	

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
F144B (2q4gw)	Barnes-Buse loams, 3 to 6 percent slopes				73		64
		25	Barnes	80		75	
		24	Buse	57		42	
		14	Svea	95		90	
		10	Balaton	71		56	
		7	Hamerly	85		70	
		5	Tonka	85		80	
		4	Langhei	48		33	
		3	Cresbard	75		70	
		3	Parnell	75		70	
		3	Swenoda	80		75	
F145B (2q4gx)	Svea-Buse-Tonka complex, 0 to 6 percent slopes	2	Sioux	19	77	14	69
		31	Svea	95		90	
		17	Buse	57		42	
		15	Tonka	85		80	
		11	Langhei	48		33	
		6	Barnes	80		75	
		5	Wyand	90		85	
		3	Balaton	71		56	
		3	Cresbard	75		70	
		3	Hamerly	85		70	
		3	Parnell	75		70	
F147C (2q4h1)	Buse-Barnes-Darnen loams, 3 to 9 percent slopes	3	Renshaw	43	61	38	51
		28	Buse	46		31	
		23	Barnes	64		59	
		22	Darnen	95		90	
		7	Langhei	38		23	
		6	Langhei, very stony	19		4	

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
F147D (2q4h2)	Buse-Barnes-Darnen loams, 6 to 15 percent slopes	3	Cresbard	76	47	71	37
		3	Hamerly	85		70	
		3	Sioux	15		10	
		3	Swenoda	61		56	
		2	Lowe, occasionally flooded	70		55	
		28	Buse	35		20	
		26	Barnes	48		43	
		23	Darnen	76		71	
		9	Langhei	29		14	
		6	Langhei, very stony	15		0	
		3	Sioux	14		9	
		3	Swenoda	61		56	
		2	Lowe, occasionally flooded	70		55	
F147F (2q4h8)	Buse-Barnes-Darnen loams, 9 to 35 percent slopes	30	Buse	24	34	9	25
		24	Darnen	57		52	
		22	Barnes	34		29	
		9	Langhei	14		0	
		6	Langhei, very stony	7		0	
		3	Lanona	54		49	
		3	Lowe, occasionally flooded	70		55	
		3	Sioux	11		6	
		30	Buse	46		31	
		25	Barnes	64		59	
F148C (2q4h3)	Buse-Barnes-La Prairie, occasionally flooded loams, 3 to 9 percent slopes	18	La Prairie, occasionally flooded	95	59	90	49
		7	Langhei	38		23	
		30	Buse	46		31	
		25	Barnes	64		59	

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
F148D (2q4h4)	Buse-Barnes-La Prairie, occasionally flooded loams, 6 to 15 percent slopes	6	Langhei, very stony	19	45	4	35
		3	Cresbard	76		71	
		3	Hamerly	85		70	
		3	Sioux	15		10	
		3	Swenoda	61		56	
		2	Lowe, occasionally flooded	70		55	
		31	Buse	35		20	
		28	Barnes	48		43	
		18	La Prairie, occasionally flooded	76		71	
		9	Langhei	29		14	
		6	Langhei, very stony	15		0	
		3	Sioux	14		9	
F148F (2q4h9)	Buse-Barnes-La Prairie, occasionally flooded loams, 6 to 35 percent slopes	3	Swenoda	61	35	56	26
		2	Lowe, occasionally flooded	70		55	
		38	Buse	24		9	
		27	Barnes	34		29	
		18	La Prairie, occasionally flooded	67		62	
		8	Langhei, very stony	7		0	
		3	Lanona	54		49	
		3	Lowe, occasionally flooded	70		55	
		3	Sioux	11		6	
		38	Buse	24		9	
F149F (2q4hb)	Buse-Barnes-La Prairie, wooded, occasionally flooded loams, 6 to 35 percent slopes				35		26

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
F151A (2q4h6)	Svea-Hamerly-Tonka complex, 0 to 3 percent slopes	27	Barnes	34	88	29	80
		18	La Prairie, occasionally flooded, wooded	67		62	
		8	Langhei, very stony	7		0	
		3	Lanona	54		49	
		3	Lowe, occasionally flooded	70		55	
		3	Sioux	11		6	
		40	Svea	100		95	
		23	Hamerly	85		70	
		16	Tonka	85		80	
		6	Parnell	75		70	
		5	Vallars	70		55	
		3	Balaton	75		60	
		3	Vallars, moderately saline	35		20	
		2	Barnes	85		80	
F157A (2q4hd)	Barnes loam, 0 to 3 percent slopes	2	Wyard	90	86	85	80
		77	Barnes	85		80	
		9	Balaton	75		60	
		9	Svea	100		95	
		3	Hamlet	100		95	
F157B (2q4hf)	Barnes loam, 3 to 6 percent slopes	2	Tonka	85	81	80	75
		80	Barnes	80		75	
		6	Balaton	71		56	
		6	Svea	100		95	
		3	Buse	57		42	
		3	Hamlet	100		95	
		2	Tonka	85		80	

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
F158A (2q4hg)	Barnes-Hamlet-Tonka complex, 0 to 3 percent slopes				86		79
		32	Barnes	85		80	
		25	Hamlet	100		95	
		18	Tonka	85		80	
		11	Hamerly	85		70	
		5	Parnell	75		70	
		3	Balaton	75		60	
		3	Cresbard	75		70	
		3	Vallers, moderately saline	35		20	
F158B (2q3wj)	Barnes-Hamlet-Tonka complex, 0 to 6 percent slopes				82		76
		39	Barnes	80		75	
		23	Hamlet	95		90	
		15	Tonka	85		80	
		7	Hamerly	85		70	
		5	Parnell	75		70	
		3	Balaton	71		56	
		3	Buse	57		42	
		3	Cresbard	75		70	
F159A (2q3wk)	Barnes-Svea-Tonka complex, 0 to 3 percent slopes				86		79
		32	Barnes	85		80	
		28	Svea	100		95	
		15	Tonka	85		80	
		10	Hamerly	85		70	
		6	Parnell	75		70	
		3	Buse	57		42	
		3	Cresbard	75		70	
		3	Vallers, moderately saline	35		20	

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
F159B (2md2y)	Barnes-Svea-Tonka complex, 0 to 6 percent slopes				82		76
		32	Barnes	80		75	
		25	Svea	95		90	
		15	Tonka	85		80	
		8	Parnell	75		70	
		5	Buse	57		42	
		3	Balaton	71		56	
		3	Cresbard	75		70	
		3	Hamerly	85		70	
		3	Hamlet	100		95	
		3	Vallers, moderately saline	35		20	
F166B (2q3wp)	Barnes-Balaton loams, 1 to 6 percent slopes				80		72
		52	Barnes	85		80	
		30	Balaton	71		56	
		6	Tonka	85		80	
		4	Hamlet	95		90	
		3	Hamerly	85		70	
		3	Parnell	75		70	
		2	Buse	57		42	
F177F (2q3wr)	Buse-Barnes-Darnen loams, wooded, 9 to 35 percent slopes				34		24
		37	Buse, wooded	24		9	
		27	Barnes, wooded	34		29	
		19	Darnen, wooded	57		52	
		8	Langhei, very stony	7		0	
		3	Lanona	54		49	
		3	Lowe, occasionally flooded	70		55	
		3	Sioux	11		6	

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
F178F (2q3ws)	Buse-Barnes-La Prairie, occasionally flooded loams, wooded, 6 to 35 percent slopes				35		26
		37	Buse, wooded	24		9	
		28	Barnes, wooded	34		29	
		18	La Prairie, occasionally flooded, wooded	67		62	
		8	Langhei, very stony	7		0	
		3	Lanona	54		49	
		3	Lowe, occasionally flooded	70		55	
		3	Sioux	11		6	
F229A (2q3xq)	Heimdal-Emrick loams, 0 to 3 percent slopes				81		75
		39	Heimdal	80		75	
		37	Emrick	90		85	
		3	Cathay	75		70	
		3	Embsden	75		70	
		3	Esmond	57		42	
		3	Fram	85		70	
		3	Ortonville	66		51	
		3	Parnell	75		70	
		3	Renshaw	45		40	
		3	Tonka	85		80	
F229B (2q3xr)	Heimdal-Emrick loams, 3 to 6 percent slopes				76		69
		43	Heimdal	76		71	
		26	Emrick	85		80	
		8	Ortonville	66		51	
		4	Esmond	57		42	
		4	Fram	85		70	
		3	Cathay	75		70	
		3	Parnell	75		70	
		3	Renshaw	43		38	

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
F250A (2q4tt)	Divide loam, 0 to 2 percent slopes	3	Sisseton	48	62	33	48
		3	Tonka	85		80	
		70	Divide	65		50	
		14	Marysland	60		45	
		4	Fordville	60		55	
		4	Wyrene	55		40	
		3	Arvilla	38		33	
		3	Letcher	40		35	
F270A (2q4v2)	Arvilla sandy loam, 0 to 2 percent slopes	2	Renshaw	45	40	40	35
		77	Arvilla	40		35	
		6	Renshaw	45		40	
		5	Arvilla, thick surface	40		35	
		5	Sioux	20		15	
		4	Osakis	50		45	
		3	Divide	65		50	
		62	Arvilla	38		33	
F272B (2q4v3)	Arvilla-Sioux complex, 2 to 6 percent slopes	20	Sioux	19	35	14	30
		5	Arvilla, thick surface	40		35	
		4	Lohnes	39		34	
		4	Renshaw	43		38	
		3	Osakis	50		45	
		2	Divide	65		50	
		42	Sioux	15		10	
		16	Arvilla	30		25	
F272C (2q4v4)	Sioux-Arvilla-Renshaw complex, 6 to 9 percent slopes	15	Renshaw	34	26	29	21
		10	Sioux	19		14	
		6	Arvilla, thick surface	38		33	

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
F272E (2q4v5)	Sioux-Arvilla-Renshaw complex, 9 to 25 percent slopes	4	Fordville	60	18	55	13
		4	Lohnes	39		34	
		3	Wyrene	55		40	
		42	Sioux	11		6	
		16	Arvilla	23		18	
		15	Renshaw	26		21	
		14	Sioux	8		3	
		6	Arvilla, thick surface	38		33	
		4	Lohnes	26		21	
		3	Fordville	57		52	
F273A (2q4v6)	Sioux-Arvilla complex, 0 to 2 percent slopes	50	Sioux	20	32	15	26
		36	Arvilla	40		35	
		5	Divide	65		50	
		5	Osakis	50		45	
		4	Arvilla, thick surface	40		35	
		55	Sioux	19		14	
		26	Arvilla	38		33	
F273B (2q4v7)	Sioux-Arvilla complex, 2 to 6 percent slopes	5	Renshaw	43	29	38	23
		4	Arvilla, thick surface	38		33	
		4	Lohnes	39		34	
		4	Osakis	50		45	
		2	Wyrene	55		40	
		67	Renshaw	45		40	
		12	Sioux	20		15	
		8	Warsing	55		50	
		5	Fordville	60		55	
		4	Arvilla, thick surface	40		35	
F275A (2q4v8)	Renshaw loam, 0 to 2 percent slopes	42			42		37

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
F276B (2q4v9)	Renshaw-Sioux complex, 2 to 6 percent slopes	4	Sioux	19	40	14	35
		36	Renshaw	43		38	
		20	Sioux	19		14	
		10	Fordville	60		55	
		10	Sioux	24		19	
		7	Osakis	50		45	
		6	Warsing	55		50	
		4	Arvilla	38		33	
		4	Divide	65		50	
		3	Marysland	60		45	
F362A (2q54b)	Stirum-Arveson, saline fine sandy loams, 0 to 1 percent slopes	56	Stirum	20	33	15	25
		15	Arveson, moderately saline	25		10	
		10	Tiffany	75		70	
		7	Fossum, saline-sodic substratum	60		55	
		3	Arveson	50		35	
		3	Hamar	50		45	
		3	Marysland, moderately saline	33		18	
		3	Wyndmere	65		50	
		66	Embden	75		70	
		13	Wyndmere	65		50	
F376A (2q54h)	Embden fine sandy loam, 0 to 2 percent slopes	8	Egeland	70	70	65	64
		3	Arvilla	40		35	
		3	Binford	45		40	
		3	Tiffany	75		70	
		2	Hecla	50		45	
		2	Letcher	40		35	

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
F377B (2q54j)	Embden-Egeland fine sandy loams, 2 to 6 percent slopes				64		58
		40	Embden	71		66	
		29	Egeland	67		62	
		14	Maddock	43		38	
		8	Wyndmere	65		50	
		3	Arvilla	38		33	
		3	Hecla	60		55	
		3	Tiffany	75		70	
F383B (2q54n)	Maddock-Hecla fine sandy loams, 0 to 6 percent slopes				54		49
		47	Maddock	52		47	
		30	Hecla	60		55	
		8	Maddock	43		38	
		4	Garborg	60		55	
		3	Arvilla	40		35	
		3	Hamar	60		55	
		3	Hecla	50		45	
F384B (2q54p)	Maddock-Hecla loamy fine sands, 0 to 6 percent slopes	2	Letcher	40	45	35	40
		54	Maddock	43		38	
		24	Hecla	50		45	
		4	Bantry	25		20	
		4	Hecla	60		55	
		4	Maddock	52		47	
		3	Arvilla	38		33	
		3	Hamar	50		45	
		2	Garborg	50		45	
		2	Letcher	40		35	
F399E (2q54v)	Maddock-Serden loamy fine sands, 6 to 25 percent slopes				20		15
		68	Maddock	18		13	
		18	Serden	8		3	

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
F410A (2q54y)	Fargo silty clay, 0 to 1 percent slopes	7	Hecla	49	87	44	81
		3	Towner, well drained	38		33	
		2	Claire	6		1	
		2	Embsen	57		52	
		85	Fargo	90		85	
		8	Hegne	85		70	
		3	Dovray	60		55	
		2	Aberdeen	75		70	
F427C (2q555)	Wamduka-Mauvais complex, 0 to 9 percent slopes	2	Hegne, moderately saline	43	32	28	24
		38	Wamduka	7		2	
		35	Mauvais	57		47	
		7	Coe	19		14	
		5	Falsen	55		50	
		5	Water, intermittent	---		0	
		3	Lallie, moderately saline	25		15	
		3	Minnewasta	60		50	
		3	Minnewaukan	35		30	
		1	Buse	46		31	
F482A (2q560)	Great Bend-Overly silt loams, 0 to 2 percent slopes	37	Great Bend	90	90	85	83
		30	Overly	100		95	
		13	Bearden	95		80	
		6	Perella	90		85	
		4	Colvin, moderately saline	35		20	
		3	Kindred	90		85	
		2	Aberdeen	75		70	
		2	Bearden, moderately saline	48		33	
		2	Zell	57		42	

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
F521A (2q56h)	Lowe loam, 0 to 1 percent slopes, occasionally flooded	1	Lindaas	95	65	90	50
		77	Lowe, occasionally flooded	70		55	
		9	Lowe, moderately saline, occasionally flooded	35		20	
		8	Lowe, very poorly drained, frequently flooded	30		15	
		4	Moritz, occasionally flooded	85		70	
F523A (2q56j)	Lowe-Fluvaquents, channeled complex, 0 to 2 percent slopes, frequently flooded	2	La Prairie, occasionally flooded	100	23	95	14
		40	Fluvaquents, channeled, frequently flooded	0		0	
		28	Lowe, frequently flooded	40		25	
		20	Lowe, moderately saline, frequently flooded	20		5	
		5	Lowe, very poorly drained, frequently flooded	30		15	
		5	Moritz, occasionally flooded	85		70	
		2	La Prairie, occasionally flooded	100		95	
F527A (2q56l)	Ludden silty clay, very poorly drained, 0 to 1 percent slopes, frequently flooded				42		37
		86	Ludden, very poorly drained, frequently flooded	45		40	
		5	Fluvaquents, channeled, frequently flooded	0		0	
		4	Rifle	10		5	
		3	Ludden, occasionally flooded	70		65	
		2	Water, intermittent	---		0	
F531A (2q56m)	Ludden, wooded-Fluvaquents, channeled complex, 0 to 2 percent slopes, frequently flooded				21		17
		51	Ludden, frequently flooded, wooded	35		30	

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
F546A (2q56n)	Lowe loam, saline, 0 to 1 percent slopes, occasionally flooded	40	Fluvaquents, channeled, frequently flooded	0	41	0	26
		4	Rifle	10		5	
		3	Ludden, occasionally flooded	70		65	
		2	Water, intermittent	---		0	
		78	Lowe, moderately saline, occasionally flooded	35		20	
		9	Lowe, occasionally flooded	70		55	
		7	Lowe, very poorly drained, frequently flooded	30		15	
		4	Moritz, saline-sodic sub, occasionally flooded	85		70	
F552A (2q56q)	Harriet loam, strongly saline, 0 to 1 percent slopes, occasionally flooded	2	La Prairie, occasionally flooded	100	15	95	10
		86	Harriet, strongly saline, occasionally flooded	13		8	
		8	Lowe, moderately saline, occasionally flooded	35		20	
		6	Harriet, occasionally flooded	25		20	
F554A (2q56r)	Harriet loam, 0 to 1 percent slopes, occasionally flooded	85	Harriet, occasionally flooded	25	28	20	22
		7	Ryan, occasionally flooded	30		25	
		4	Lowe, moderately saline, occasionally flooded	35		20	
		4	Lowe, occasionally flooded	70		55	
F560A (2q56s)	La Prairie, wooded-Fluvaquents, channeled complex, 0 to 2 percent slopes, frequently flooded	44			44		40
		35	La Prairie, frequently flooded, wooded	75		70	

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
F561A (2q56t)	La Prairie loam, 0 to 2 percent slopes, occasionally flooded	33	Fluvaquents, channeled, frequently flooded	0	87	0	81
		10	Fairdale, frequently flooded, wooded	65		55	
		10	Velva, moist, frequently flooded, wooded	60		55	
		5	Ludden, moderately saline, frequently flooded	53		48	
		5	Rauville, frequently flooded	35		25	
		2	Lowe, frequently flooded, wooded	40		25	
		73	La Prairie, occasionally flooded	100		95	
		10	Velva, moist, occasionally flooded	70		65	
		5	Fluvaquents, channeled, frequently flooded	0		0	
		4	Lowe, occasionally flooded	70		55	
		4	Rauville, frequently flooded	35		25	
		2	Fairdale, occasionally flooded	85		75	
F562A (2q56v)	La Prairie-Fluvaquents, channeled complex, 0 to 2 percent slopes, frequently flooded	2	Lowe, moderately saline, occasionally flooded	35	44	20	40
		35	La Prairie, frequently flooded	75		70	
		33	Fluvaquents, channeled, frequently flooded	0		0	
		10	Fairdale, frequently flooded	65		55	
		10	Velva, moist, frequently flooded	60		55	
		5	Ludden, moderately saline, frequently flooded	53		48	
		4	Lowe, frequently flooded	40		25	

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
F576A (2q571)	Velva loam, moist, 0 to 2 percent slopes, occasionally flooded	3	Rauville, frequently flooded	35	77	25	72
		89	Velva, moist, occasionally flooded	80		75	
		5	Fluvaquents, channeled, frequently flooded	0		0	
		4	La Prairie, occasionally flooded	100		95	
		2	Ludden, occasionally flooded	70		65	
F577A (2q572)	Velva, moist-Fluvaquents, channeled fine sandy loams, 0 to 2 percent slopes, frequently flooded				36		32
		50	Velva, moist, frequently flooded	60		55	
		40	Fluvaquents, channeled, frequently flooded	0		0	
		5	Ladelle, frequently flooded	75		70	
		5	Ludden, frequently flooded	35		30	
F578A (2q573)	Velva fine sandy loam, moist, wooded, 0 to 2 percent slopes, frequently flooded				52		48
		75	Velva, moist, frequently flooded, wooded	60		55	
		10	Fluvaquents, channeled, frequently flooded	0		0	
		10	Ludden, frequently flooded	35		30	
		5	Ladelle, frequently flooded	75		70	
F596A (2q5dc)	Darnen loam, 0 to 2 percent slopes				95		90
		85	Darnen	100		95	
		6	Renshaw	45		40	
		3	Embden	75		70	
		3	La Prairie, occasionally flooded	100		95	
F596B (2q5dd)	Darnen loam, 2 to 6 percent slopes	3	Lamoure, occasionally flooded	70	89	60	84
		81	Darnen	95		90	

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
F596C (2q5df)	Darnen loam, 6 to 9 percent slopes	5	Embden	71	71	66	66
		5	Fordville	57		52	
		3	Barnes	80		75	
		3	La Prairie, occasionally flooded	100		95	
		3	Sioux	19		14	
		82	Darnen	76		71	
		5	Embden	71		66	
		5	Fordville	57		52	
		5	Sioux	15		10	
		3	Barnes	64		59	
F612C (2q5dk)	Barnes-Buse, very stony, loams, 3 to 9 percent slopes	31	Barnes	80	59	75	49
		27	Buse, very stony	23		8	
		14	Svea	95		90	
		7	Langhei, very stony	19		4	
		6	Parnell	75		70	
		5	Hamerly	85		70	
		4	Balaton, very stony	38		23	
		3	Cresbard	75		70	
		3	Sioux	15		10	
		94	Udarents, loamy, mine land	26		16	
		3	Aquents	50		40	
		3	Water, intermittent	---		0	
		92	Udorthents, loamy, borrow area	32		22	
F638D (2q5ds)	Udorthents loamy, borrow area, 0 to 15 percent slopes	2	Renshaw	45	32	40	22
		2	Sisseton	29		14	
		2	Udorthents, loamy	14		4	

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
F639F (2q5dt)	Orthents-Aquents-Urban Land, highway complex, 0 to 35 percent slopes	1	Barnes	64	30	59	17
		1	Water, intermittent	---		0	
		41	Orthents	11		1	
		16	Aquents	50		40	
		15	Urban Land, Highway	---		0	
		10	Sisseton	29		14	
		6	Renshaw	43		38	
		3	Barnes	64		59	
		3	Parnell	75		70	
		3	Svea	95		90	
		3	Water, intermittent	---		0	
F641F (2q5dv)	Udarents loamy, earthen dam, 1 to 75 percent slopes	100	Udarents, loamy, earthen dam	11	11	1	1
F642A (2q5dw)	Urban land-Aquents complex, 0 to 3 percent slopes	57	Urban Land	---	50	0	18
		30	Aquents	50		40	
		4	Barnes	80		75	
		3	Lallie, moderately saline	25		15	
		3	Renshaw	45		40	
		3	Udorthents, loamy	39		29	
		60	Urban Land	---		0	
		30	Udorthents, loamy	39		29	
F643B (2q5f0)	Urban land-Udorthents loamy complex, 0 to 6 percent slopes	4	Barnes	80	44	75	14
		3	Aquents	50		40	
		3	Renshaw	45		40	
		60	Urban Land	---		0	
		30	Udorthents, loamy	39		29	
		4	Barnes	80		75	
		3	Aquents	50		40	
F643D (2q5dz)	Urban land-Udorthents loamy complex, 6 to 15 percent slopes	3	Renshaw	45	35	40	10
		60	Urban Land	---		0	

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
F645B (2q5dx)	Urban land-Udifuvents loamy complex, 0 to 6 percent slopes	30	Udorthents	30	77	20	27
		4	Barnes	64		59	
		3	Aquents	50		40	
		3	Renshaw	34		29	
		60	Urban Land	---		0	
		30	Udifuvents, occasionally flooded	83		73	
		4	Barnes	80		75	
		3	Aquents	50		40	
F646B (2q5f1)	Urban land, 0 to 6 percent slopes	3	Renshaw	45	50	40	8
		80	Urban Land	---		0	
		10	Udorthents, loamy	39		29	
		4	Barnes	80		75	
		3	Aquents	50		40	
		3	Renshaw	45		40	
		84	Pits, gravel and sand	6		1	
		7	Sioux	15		10	
F650 (2q5dy)	Pits, gravel and sand	3	Binford	43	9	38	4
		3	Renshaw	45		40	
		3	Water, intermittent	---		0	
		84	Pits, gravel and sand	6		1	
		7	Sioux	15		10	
		3	Binford	43		38	
		3	Renshaw	45		40	
		3	Water, intermittent	---		0	
F651E (2q5f2)	Udarents loamy, abandoned gravel pits, 0 to 25 percent slopes	84	Udarents, loamy, abandoned gravel pits	28	28	18	18
		7	Sioux	15		10	
		3	Binford	43		38	
		3	Renshaw	45		40	
		3	Water, intermittent	---		0	
		84	Udarents, loamy, abandoned gravel pits	28		18	
		7	Sioux	15		10	
		3	Binford	43		38	

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
F652C (2q5f3)	Mollic Udarents loamy, reclaimed pits, 0 to 9 percent slopes				35		26
		90	Mollic Udarents, loamy, reclaimed pits	35		25	
		4	Sioux	15		10	
		2	Arvilla	38		33	
		2	Barnes	80		75	
F653B (2q5f4)	Aastad loam, west, 3 to 6 percent slopes	2	Renshaw	34		29	
					93		88
		82	Aastad, west	95		90	
		10	Forman, west	85		80	
		3	Cresbard	75		70	
F654A (2q5f5)	Aastad-Parnell complex, west, 0 to 3 percent slopes	3	Tonka	85		80	
		2	Hamerly	85		70	
					89		83
		53	Aastad, west	100		95	
		18	Parnell	75		70	
F655A (2q5f6)	Aastad-Tonka complex, west, 0 to 3 percent slopes	8	Forman, west	85		80	
		5	Hamerly	85		70	
		5	Vallers	70		55	
		3	Cresbard	75		70	
		3	Tonka	85		80	
F655A (2q5f6)	Aastad-Tonka complex, west, 0 to 3 percent slopes	3	Wynd	90		85	
		2	Vallers, moderately saline	35		20	
					92		86
		54	Aastad, west	100		95	
		20	Tonka	85		80	
F655A (2q5f6)	Aastad-Tonka complex, west, 0 to 3 percent slopes	8	Cresbard	75		70	
		5	Forman, west	90		85	
		5	Vallers	70		55	
		3	Hamerly	85		70	

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
F656A (2q5f7)	Aastad loam, west, 0 to 3 percent slopes, drainageway	3	Wyard	90	94	85	87
		2	Parnell	75		70	
		65	Aastad, west	100		95	
		12	Forman, west	90		85	
		9	Hamerly	85		70	
		8	Vallers	70		55	
		3	Cresbard	75		70	
F656B (2q5f8)	Aastad loam, west, 3 to 6 percent slopes, drainageway	3	Wyard	90	91	85	85
		74	Aastad, west	95		90	
		13	Forman, west	85		80	
		8	Vallers	70		55	
		3	Cresbard	75		70	
		2	Hamerly	85		70	
		82	Forman, west	90		85	
F657A (2q5f9)	Forman loam, west, 0 to 3 percent slopes	6	Aastad, west	100	88	95	83
		4	Buse	57		42	
		3	Balaton	75		60	
		3	Cresbard	75		70	
		2	Tonka	85		80	
		82	Forman, west	85		80	
		6	Aastad, west	95		90	
F657B (2q5fb)	Forman loam, west, 3 to 6 percent slopes	4	Buse	57	84	42	78
		3	Balaton	75		60	
		3	Cresbard	75		70	
		2	Tonka	85		80	
		82	Forman, west	85		80	
		6	Aastad, west	95		90	
		4	Buse	57		42	
F658A (2q5fc)	Forman-Aastad loams, west, 0 to 3 percent slopes	3	Balaton	75	89	60	83
		3	Cresbard	75		70	
		2	Tonka	85		80	
		52	Forman, west	90		85	

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
F658B (2q5fd)	Forman-Aastad loams, west, 3 to 6 percent slopes	25	Aastad, west	100	86	95	80
		10	Balaton	75		60	
		7	Tonka	85		80	
		3	Cavour	45		40	
		3	Wyand	90		85	
		58	Forman, west	85		80	
		26	Aastad, west	95		90	
		6	Balaton	71		56	
		4	Tonka	85		80	
		3	Buse	57		42	
F659A (2q5ff)	Forman-Aastad-Tonka complex, west, 0 to 3 percent slopes	3	Cresbard	75	90	70	84
		43	Forman, west	90		85	
		26	Aastad, west	100		95	
		15	Tonka	85		80	
		8	Hamerly	85		70	
		5	Parnell	75		70	
		3	Cresbard	75		70	
F659B (2q5fg)	Forman-Aastad-Tonka complex, west, 3 to 6 percent slopes	40	Forman, west	85	85	80	79
		26	Aastad, west	95		90	
		15	Tonka	85		80	
		11	Balaton	71		56	
		5	Parnell	75		70	
		3	Cresbard	75		70	
F661B (2q5fh)	Forman-Buse loams, west, 3 to 6 percent slopes	55	Forman, west	85	77	80	70
		21	Buse	57		42	
		10	Aastad, west	95		90	

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
F665A (2q5fj)	Gwinner silty clay loam, west, 0 to 3 percent slopes	5	Tonka	85	99	80	93
		3	Cavour	45		40	
		2	Balaton	75		60	
		2	Parnell	75		70	
		2	Sioux	19		14	
		85	Gwinner, west	100		95	
		5	Aastad, west	100		95	
		5	Forman, west	90		85	
F680D (2q5lj)	Barnes-Sioux complex, 6 to 15 percent slopes	5	Hamerly	85	44	70	37
		31	Barnes	64		59	
		29	Sioux	14		9	
		9	Svea	95		90	
		8	Buse	35		20	
		8	Buse, very stony	18		3	
		6	Lanona	54		49	
		6	Renshaw	34		29	
		3	Balaton	71		56	
		59	Swenoda	80		75	
F731A (2q5lv)	Swenoda fine sandy loam, 0 to 3 percent slopes	10	Barnes	80	77	75	70
		10	Towner	65		60	
		7	Hamerly	85		70	
		5	Wyndmere, loamy substratum	65		50	
		4	Balaton	71		56	
		3	Lanona	70		65	
		2	Arveson	50		35	
		49	Swenoda	80		75	
F732A (2q5lw)	Swenoda-Barnes fine sandy loams, 0 to 3 percent slopes				77		70

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
F732B (2q51x)	Svenoda-Barnes complex, 3 to 6 percent slopes	20	Barnes	80	74	75	67
		10	Towner	65		60	
		7	Hamerly	85		70	
		5	Wyndmere, loamy substratum	65		50	
		4	Balaton	71		56	
		3	Lanona	70		65	
		2	Arveson	50		35	
		39	Svenoda	76		71	
		27	Barnes	80		75	
		12	Lanona	67		62	
		5	Buse	57		42	
		5	Hamerly	85		70	
		5	Towner	65		60	
		5	Wyndmere, loamy substratum	65		50	
F735B (2q5m0)	Towner-Dickey loamy fine sands, 3 to 6 percent slopes	2	Arveson	50	51	35	45
		55	Towner	52		47	
		25	Dickey	48		43	
		8	Esmond	57		42	
		6	Hecla	50		45	
		5	Maddock	43		38	
		1	Fossum	60		55	
		100	Water	---		0	
F996 (2q5mr)	Water	100	Water	---	44	0	0
F997 (2q5ms)	Water, intermittent	80	Water, intermittent	---		0	7
		10	Southam	50		40	
		5	Lallie	50		40	
		5	Lallie, moderately saline	25		15	
F998 (2q5mt)	Water, miscellaneous	100	Water, miscellaneous	---		0	0

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
Fw (ctt0)	Southam silty clay loam	80	Southam, undrained	0	0	0	0
		10	Southam, undrained	0		0	
		10	Water	0		0	
G2A (2q3tp)	Tonka silt loam, 0 to 1 percent slopes	73	Tonka	85	81	80	76
		9	Parnell	75		70	
		6	Wyand	90		85	
		4	Vallers	70		55	
		3	Hamerly	85		70	
		3	Manfred	25		20	
		2	Cavour	45		40	
		64	Parnell	75		70	
		10	Vallers	70		55	
G3A (2q3tq)	Parnell silty clay loam, 0 to 1 percent slopes	9	Vallers, moderately saline	35	69	20	61
		6	Southam	50		40	
		5	Tonka	85		80	
		3	Ferney	30		25	
		3	Hamerly	85		70	
		68	Southam	50		40	
		9	Vallers, moderately saline	35		20	
		6	Arveson	50		35	
G4A (2q3tr)	Southam silty clay loam, 0 to 1 percent slopes	5	Water, intermittent	---	49	0	37
		4	Parnell	75		70	
		3	Manfred	25		20	
		3	Mauvais	60		50	
		2	Minnewaukan	35		30	
		71	Marysland	60		45	
		59					
G25A (2q3tv)	Marysland loam, 0 to 1 percent slopes				59		44

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
G100A (2q3vh)	Hamerly-Tonka complex, 0 to 3 percent slopes	11	Divide	65	79	50	69
		7	Marysland, very poorly drained	50		35	
		5	Totten	25		20	
		3	Divide, loamy substratum	70		55	
		3	Marysland, loamy substratum	65		50	
		37	Hamerly	85		70	
		28	Tonka	85		80	
		7	Wyand	90		85	
		6	Vallers	70		55	
		5	Balaton	71		56	
		5	Parnell	75		70	
		4	Hamerly, moderately saline	43		28	
		3	Barnes	80		75	
		3	Cavour	45		40	
		2	Vallers, moderately saline	35		20	
G116A (2q3v1)	Easby clay loam, 0 to 1 percent slopes	92	Easby	15	16	0	2
		3	Easby, very strongly saline	0		0	
		3	Vallers, moderately saline	35		20	
		2	Parnell	75		70	
		49	Cavour	45		40	
G125A (2pwzf)	Cavour-Cresbard loams, 0 to 3 percent slopes	25	Cresbard	75	60	70	54
		9	Barnes	85		80	
		5	Ferney	30		25	
		5	Hamerly	85		70	
		3	Svea, saline-sodic substratum	100		95	

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
G129A (2q4nt)	Cavour-Ferney loams, 0 to 3 percent slopes	2	Tonka	85	42	80	36
		2	Vallers, moderately saline	35		20	
		50	Cavour	45		40	
		25	Ferney	30		25	
		6	Hamerly, moderately saline	43		28	
		6	Vallers, moderately saline	35		20	
		5	Manfred	25		20	
		3	Balaton, saline-sodic substratum	71		56	
		3	Cresbard	75		70	
		2	Svea, saline-sodic substratum	100		95	
G143C (2pwz5)	Barnes-Buse-Langhei loams, 6 to 9 percent slopes				59		50
		24	Barnes	64		59	
		23	Buse	46		31	
		18	Langhei	38		23	
		14	Svea	95		90	
		3	Balaton	71		56	
		3	Cresbard	76		71	
		3	Lanona	67		62	
		3	Parnell	75		70	
		3	Renshaw	43		38	
		3	Sioux	15		10	
		3	Tonka	85		80	
		34	Buse	24		9	
		29	Barnes	34		29	
G143F (2pwz3)	Buse-Barnes loams, 15 to 35 percent slopes	10	Svea, well drained	54	29	49	20
		9	Langhei	14		0	

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
G147C (2pwyw)	Buse-Barnes-Darnen loams, 3 to 9 percent slopes	6	Langhei, very stony	7	61	0	51
		3	Lanona	54		49	
		3	Parnell, undrained	20		15	
		3	Sioux	11		6	
		3	Tonka, undrained	40		35	
		28	Buse	46		31	
		23	Barnes	64		59	
		22	Darnen	95		90	
		7	Langhei	38		23	
		6	Langhei, very stony	19		4	
		3	Cresbard	76		71	
		3	Hamerly	85		70	
		3	Sioux	15		10	
		3	Swenoda	61		56	
G147D (2pwyv)	Buse-Barnes-Darnen loams, 6 to 15 percent slopes	2	Lowe, occasionally flooded	70	47	55	37
		28	Buse	35		20	
		26	Barnes	48		43	
		23	Darnen	76		71	
		9	Langhei	29		14	
		6	Langhei, very stony	15		0	
		3	Sioux	14		9	
		3	Swenoda	61		56	
		2	Lowe, occasionally flooded	70		55	
		26	Buse	24		9	
G147F (2pwt)	Buse-Barnes-Darnen loams, 9 to 35 percent slopes	25	Barnes	34	34	29	25
		24	Darnen	57		52	

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
G148F (2q61j)	Buse-Barnes-La Prairie, occasionally flooded loams, 6 to 35 percent slopes	10	Langhei	14	35	0	26
		6	Langhei, very stony	7		0	
		3	Lanona	54		49	
		3	Lowe, occasionally flooded	70		55	
		3	Sioux	11		6	
		38	Buse	24		9	
		27	Barnes	34		29	
		18	La Prairie, occasionally flooded	67		62	
		8	Langhei, very stony	7		0	
		3	Lanona	54		49	
G149F (2q61k)	Buse-Barnes-La Prairie, wooded, occasionally flooded loams, 6 to 35 percent slopes	3	Lowe, occasionally flooded	70	35	55	26
		3	Sioux	11		6	
		38	Buse	24		9	
		27	Barnes	34		29	
		18	La Prairie, occasionally flooded, wooded	67		62	
		8	Langhei, very stony	7		0	
		3	Lanona	54		49	
		3	Lowe, occasionally flooded	70		55	
		3	Sioux	11		6	
		77	Arvilla	40		35	
G270A (2q4jy)	Arvilla sandy loam, 0 to 2 percent slopes	6	Renshaw	45	40	40	35
		5	Arvilla, thick surface	40		35	
		5	Sioux	20		15	

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
G272B (2q4jz)	Arvilla-Sioux complex, 2 to 6 percent slopes	4	Osakis	50	35	45	30
		3	Divide	65		50	
		62	Arvilla	38		33	
		20	Sioux	19		14	
		5	Arvilla, thick surface	40		35	
		4	Lohnes	39		34	
		4	Renshaw	43		38	
		3	Osakis	50		45	
G275A (2q4k4)	Renshaw loam, 0 to 2 percent slopes	2	Divide	65	44	50	39
		67	Renshaw	45		40	
		12	Sioux	20		15	
		8	Warsing	55		50	
		5	Fordville	60		55	
		4	Arvilla, thick surface	40		35	
		4	Divide	65		50	
		59	Overly	100		95	
G481A (2q5nm)	Overly silty clay loam, 0 to 2 percent slopes	12	Bearden	95	94	80	87
		11	Great Bend	85		80	
		5	Aberdeen	75		70	
		4	Perella	90		85	
		3	Colvin, moderately saline	35		20	
		3	Kindred	90		85	
		3	Lindaas	95		90	
		40	Fluvaquents, channeled, frequently flooded	0		0	
G523A (2q5pc)	Lowe-Fluvaquents, channeled complex, 0 to 2 percent slopes, frequently flooded	28	Lowe, frequently flooded	40	23	25	14

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
G652A (2q5pl)	Harriet loam, strongly saline, 0 to 1 percent slopes, occasionally flooded	20	Lowe, moderately saline, frequently flooded	20	15	5	10
		5	Lowe, very poorly drained, frequently flooded	30		15	
		5	Moritz, occasionally flooded	85		70	
		2	La Prairie, occasionally flooded	100		95	
		86	Harriet, strongly saline, occasionally flooded	13		8	
		8	Lowe, moderately saline, occasionally flooded	35		20	
G636F (2q5sp)	Udarents loamy, mine land, 0 to 35 percent slopes	6	Harriet, occasionally flooded	25	27	20	16
		94	Udarents, loamy, mine land	26		16	
		3	Aquents	50		40	
		3	Water, intermittent	---		0	
G637D (2q5sq)	Udarents loamy, landfill, 0 to 15 percent slopes	32	Udarents, loamy, landfill	32	32	22	22
		2	Renshaw	45		40	
		2	Sisseton	29		14	
		1	Barnes	64		59	
		1	Udorthents, loamy	14		4	
		84	Udarents, loamy, abandoned gravel pits	28		18	
		7	Sioux	15		10	
G651E (2q5vq)	Udarents loamy, abandoned gravel pits, 0 to 25 percent slopes	3	Binford	43	28	38	18
		3	Renshaw	45		40	
		3	Water, intermittent	---		0	
		3	Water, intermittent	---		0	
		3	Water, intermittent	---		0	
		3	Water, intermittent	---		0	
G655A (2q5vs)	Aastad-Tonka complex, west, 0 to 3 percent slopes	92			92		86
		54	Aastad, west	100		95	

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
G656B (2q5vt)	Aastad loam, west, 3 to 6 percent slopes, drainageway	20	Tonka	85	91	80	85
		8	Cresbard	75		70	
		5	Forman, west	90		85	
		5	Vallers	70		55	
		3	Hamerly	85		70	
		3	Wynd	90		85	
		2	Parnell	75		70	
		74	Aastad, west	95		90	
		13	Forman, west	85		80	
		8	Vallers	70		55	
		3	Cresbard	75		70	
		2	Hamerly	85		70	
G657A (2q5vv)	Forman loam, west, 0 to 3 percent slopes	82	Forman, west	90	88	85	83
		6	Aastad, west	100		95	
		4	Buse	57		42	
		3	Balaton	75		60	
		3	Cresbard	75		70	
		2	Tonka	85		80	
		82	Forman, west	85		80	
		6	Aastad, west	95		90	
G657B (2q5vw)	Forman loam, west, 3 to 6 percent slopes	4	Buse	57	84	42	78
		3	Balaton	75		60	
		3	Cresbard	76		71	
		2	Tonka	85		80	
		52	Forman, west	90		85	
		25	Aastad, west	100		95	
G658A (2q5vx)	Forman-Aastad loams, west, 0 to 3 percent slopes				89		83

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
G658B (2q5vy)	Forman-Aastad loams, west, 3 to 6 percent slopes	10	Balaton	75	86	60	80
		7	Tonka	85		80	
		3	Cavour	45		40	
		3	Wyand	90		85	
		58	Forman, west	85		80	
		26	Aastad, west	95		90	
		6	Balaton	71		56	
		4	Tonka	85		80	
		3	Buse	57		42	
		3	Cresbard	75		70	
G661B (2q5vz)	Forman-Buse loams, west, 3 to 6 percent slopes	55	Forman, west	85	77	80	70
		21	Buse	57		42	
		10	Aastad, west	95		90	
		5	Tonka	85		80	
		3	Cavour	43		38	
		2	Balaton	75		60	
		2	Parnell	75		70	
		2	Sioux	19		14	
		46	Forman, west	90		85	
		30	Cresbard	75		70	
G662A (2q5w0)	Forman-Cresbard loams, west, 0 to 3 percent slopes	8	Aastad, saline-sodic substratum	100	80	95	75
		6	Cavour	45		40	
		5	Ferney	30		25	
		3	Tonka	85		80	
		2	Buse	57		42	
		31	Barnes	64		59	
G680D (2q5w4)	Barnes-Sioux complex, 6 to 15 percent slopes				44		37

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
G996 (2q616)	Water	29	Sioux	14		9	
		9	Svea	95		90	
		8	Buse	35		20	
		8	Buse, very stony	18		3	
		6	Lanona	54		49	
		6	Renshaw	34		29	
		3	Balaton	71		56	
G996 (2q616)	Water	100	Water	---		0	0
G997 (2q617)	Water, intermittent	80	Water, intermittent	0	9	0	7
		10	Southam	50		40	
		5	Lallie	50		40	
		5	Lallie, moderately saline	25		15	
Gp (ctt1)	Pits, gravel and sand	100	Pits, gravel and sand	6	6	1	1
Hf (ctt2)	Hamerly loam	80	Hamerly	85	85	70	72
		10	Williams	87		82	
		3	Tonka	85		80	
		3	Vallers	70		55	
		2	Bowbells	100		95	
		2	Parnell	75		70	
		45	Harriet, occasionally flooded, strongly saline	25	18	20	12
Hk (ctt4)	Harriet and Vallers soils, strongly saline	45	Vallers, strongly saline	6		0	
		6	Harriet, occasionally flooded, strongly saline	25		20	
		4	Vallers	70		55	
		39	Colvin, occasionally flooded	53		38	
		39	Lamoure, occasionally flooded	70		60	
Lc (ctt8)	Lamoure and Colvin soils, nearly level, occasionally flooded				61		46

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
LeA (ctt9)	Lehr loam, nearly level	7	Marysland	60		45	
		5	Arveson, fsl, very poorly drained	50		35	
		5	Channel	---		0	
		5	Vallers	70		55	
		85	Lehr	45	45	40	40
		4	Renshaw	45		40	
		3	Divide	65		50	
		3	Manning	40		35	
		3	Stady	60		55	
LeB (cttb)	Lehr loam, undulating	2	Wabek	19		14	
		85	Lehr	43	44	38	38
		3	Divide	65		50	
		3	Manning	39		34	
		3	Wabek	19		14	
		2	Parnell	75		70	
		2	Renshaw	43		38	
		2	Stady	58		53	
LfA (cttc)	Lihen-Telfer fine sandy loams, nearly level	60	Lihen	55	52	50	48
		25	Telfer	50		45	
		6	Hecla	50		45	
		5	Manning	40		35	
		2	Seroco	15		10	
LfB (cttd)	Lihen-Telfer fine sandy loams, undulating	2	Tonka	85		80	
		54	Lihen	52	49	47	44
		30	Telfer	48		43	
		6	Manning	39		34	
		4	Seroco	14		9	

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
LhA (cttf)	Lihen-Telfer fine sandy loams, till substratum, nearly level	3	Hecla	50	58	45	53
		3	Tonka	85		80	
		70	Lihen, till substratum	60		55	
		15	Telfer, till substratum	60		55	
		5	Hecla	50		45	
		4	Lihen	55		50	
		3	Manning	40		35	
		3	Telfer	50		45	
LhB (cttg)	Lihen-Telfer fine sandy loams, till substratum, undulating	48	Lihen, till substratum	57	52	52	47
		40	Telfer, till substratum	48		43	
		6	Telfer	48		43	
		4	Lihen	52		47	
		2	Seroco	14		9	
		85	Manning	40		35	
		7	Wabek	24		19	
		5	Lehr	45		40	
MgA (cttp)	Manning sandy loam, nearly level	3	Divide	65	40	50	34
		77	Manning	38		33	
		9	Wabek	33		28	
		6	Lehr	43		38	
MgB (cttq)	Manning sandy loam, undulating	5	Divide	65	76	50	71
		3	Lihen	52		47	
		45	Max	80		75	
		35	Williams	85		80	
		8	Lehr	43		38	
		5	Wabek	24		19	
MmB (cttt)	Max-Williams loams, undulating				76		71

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
MmD (cttw)	Max-Williams loams, strongly sloping	4	Tansem	80	50	75	45
		3	Tonka	85		80	
		45	Max	48		43	
		35	Williams	51		46	
		7	Bowbells	76		71	
		5	Zahl	35		30	
		4	Parnell, undrained	20		15	
		2	Hamerly	80		65	
Nm (ctv0)	Noonan-Miranda complex	2	Tonka, undrained	40	46	35	41
		45	Noonan	45		40	
		35	Miranda	30		25	
		8	Niobell	75		70	
		5	Williams	90		85	
		3	Zahl	60		55	
		2	Parnell	75		70	
		2	Tonka	85		80	
Nn (ctv1)	Noonan-Niobell loams	40	Noonan	45	64	40	59
		35	Niobell	75		70	
		8	Williams	90		85	
		6	Bowbells	100		95	
		5	Miranda	30		25	
		4	Hamerly	85		70	
		2	Tonka	85		80	
		85	Parnell	75		70	
Pa (ctv5)	Parnell silty clay loam	4	Tonka	85	75	80	69
		3	Hamerly	85		70	
		3	Southam	50		40	
		3	Vallers	70		55	

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
Pe (ctv6)	Parnell soils, very poorly drained	2	Colvin	70	26	55	21
		85	Parnell, undrained	20		15	
		5	Mauvais	60		50	
		4	Southam	50		40	
		4	Vallers	70		55	
Sa (ctv9)	Salt flats	2	Tonka	85		80	0
		100	Salt Flats	---		0	
SvA (ctvg)	Svea loam, level	85	Svea	100	97	95	92
		5	Hamerly	85		70	
		4	Tonka	85		80	
		3	Barnes	85		80	
		3	Parnell	75		70	
SwB (ctvk)	Darnen loam, gently sloping	85	Darnen	95	90	90	85
		3	Embden	71		66	
		3	Fordville	57		52	
		3	La Prairie, occasionally flooded	100		95	
		3	Lamoure, occasionally flooded	70		60	
		3	Sioux	19		14	
		85	Tonka	85		80	
To (ctvq)	Tonka silt loam	6	Vallers	70	84	55	78
		5	Parnell	75		70	
		4	Hamerly	85		70	
		80	Vallers, moderately saline	35		20	
Va (ctvr)	Vallers loam, saline	5	Vallers, slightly saline	53	41	38	27
		4	Hamerly	85		70	
		3	Colvin	70		55	
		3	Parnell	75		70	

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
Vh (ctvt)	Velva loam	3	Tonka	85	75	80	70
		2	Harriet	25		20	
		83	Velva, occasionally flooded	80		75	
		7	Ludden, occasionally flooded	70		65	
		5	Channel, frequently flooded	5		0	
		3	Bowbells	100		95	
W (ctvw)	Water	2	Harriet, non-flooding	25	0	20	0
		100	Water	0		0	
WaB (ctvx)	Wabek soils, undulating				23		18
		85	Wabek	19		14	
		7	Manning	39		34	
		5	Lehr	43		38	
		3	Divide	65		50	
WeC (ctvz)	Wabek, Max, and Zahl very stony loams, rolling				33		28
		25	Max, very stony loam	41		36	
		25	Wabek, stony	17		12	
		25	Zahl, very stony	18		13	
		7	Bowbells	76		71	
		6	Williams	68		63	
		4	Divide	65		50	
		3	Lehr	30		25	
		3	Parnell, undrained	20		15	
		2	Tonka, undrained	40		35	
		85	Williams	90		85	
WLA (ctw0)	Williams loam, level	4	Bowbells	100	89	95	84
		4	Zahl	60		55	
		3	Hamerly	85		70	
		2	Max	85		80	
		2	Tonka	85		80	

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
WLB (ctw1)	Williams loam, gently undulating				84		79
		85	Williams	85		80	
		5	Bowbells	100		95	
		4	Zahl	57		52	
		3	Max	80		75	
		3	Tonka	85		80	
WLC (ctw2)	Williams loam, undulating				85		80
		85	Williams	85		80	
		6	Bowbells	97		92	
		4	Max	80		75	
		3	Zahl	57		52	
		2	Tonka	85		80	
WLD (ctw3)	Williams loam, sloping				68		63
		82	Williams	68		63	
		6	Bowbells	97		92	
		4	Max	64		59	
		4	Zahl	46		41	
		2	Parnell, undrained	20		15	
WOA (ctw8)	Williams-Bowbells-To nka loams, level	2	Tonka	85		80	
		50	Williams	90	90	85	85
		26	Bowbells	100		95	
		15	Tonka	85		80	
		5	Parnell	75		70	
		2	Max	85		80	
WSA (ctwb)	Williams-Niobell loams, level	2	Zahl	60		55	
		50	Williams	90	80	85	75
		20	Niobell	75		70	
		9	Bowbells	100		95	
		7	Miranda	30		25	
		6	Noonan	45		40	

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MLRA Symbol & (National Symbol)	Map Unit Name	Comp %	Component Name	Component PI Spring Wheat	Map Unit PI Spring Wheat	Component PI Soybean	Map Unit PI Soybean
ZaE (ctwc)	Zahl loam, hilly	4	Tonka	85		80	
		2	Parnell	75		70	
		2	Zahl	60		55	
		92	Zahl	24	26	19	21
		5	Max	48		43	
ZmC (ctwd)	Zahl-Max loams, rolling	3	Williams	51		46	
		50	Zahl	46	55	41	50
		35	Max	64		59	
		5	Williams	68		63	
		4	Bowbells	97		92	
		4	Parnell, undrained	20		15	
		2	Tonka	85		80	
		50	Zahl	24		19	
ZmE (ctwf)	Zahl-Max loams, hilly	35	Max	48		43	
		8	Parnell, undrained	20		15	
		3	Tonka, undrained	40		35	
		2	Bowbells	76		71	
		2	Williams	36		31	
		60	Zahl	17		12	
		25	Max	24		19	
		8	Parnell, undrained	20		15	
ZmF (ctwg)	Zahl-Max loams, steep	4	Tonka, undrained	40		35	
		3	Williams	51		46	
					21		16