

1999 Western Plains Regional Performance Nursery			
Entry	Cultivar or Pedigree	Selection No.	Source
1	Larned	CI17650	
2	Trego	KS95HW62-6	
3	Prowers	CO940750	
4	Arapahoe	PI515591	
5	RioBlanco/TAM-200	OK95G701	Oklahoma
6	HBA142A*HBZ621A/RioBlanco	OK97G611	Oklahoma
7	TAM-105/10334	TX90A9528	TX, Vernon
8	TAM-107/83WN55	TX91A333	TX, Vernon
9	TAM-200 sel./TAM-107	TX92V3315	TX, Vernon
10	TAMW-101//NE78488/Veery 'S'	TX95A1161	TX, Vernon
11	TAM-107//TX78V3630/CTK78/3/TX87V1233	TX95A3091	TX, Vernon
12	TX87V1534/TX84V1317	TX95V5314	TX, Vernon
13	PI294994/TAM-107	CO950379	Colorado
14	KS95HW500	CO950635	Colorado
15	Colt/Cody//Brigantina	NE96435	Nebraska, UNL
16	TAM105/BEZ1/CTK78//Arthur/CTK78/4/ Severdonskaya/Siouxland	NE96632	Nebraska, UNL
17	KS87809-10/Arapahoe	NW97S195	Nebraska/ARS
18	KSSB0192-3/NE89529	NW97S151	Nebraska/ARS
19	N91L122/Arlin	NW97S343	Nebraska/ARS
20	Siouxland/2*N86L177	N95L11869	Nebraska/ARS
21	Siouxland/2*N86L177	N95L11873	Nebraska/ARS
22	Siouxland/2*N86L177	N95L11881	Nebraska/ARS
23	Redland/GRS1201	N96L9938	Nebraska/ARS
24	GRS1201/TAM202	N96L9970	Nebraska/ARS
25	KS87809-10/Arapahoe	NW97S182	Nebraska/ARS
26	KS87809-10/Arapahoe	NW97S189	Nebraska/ARS
27	KS87809-10/Arapahoe	NW97S192	Nebraska/ARS
28	KS87809-10/ARAPAHOE	NW97S412	Nebraska/ARS

Table 1. Grain yield and agronomic performance for 28 wheats grown in the 1999 WPRPN.

Bushland, Texas, three replications					
line	entry	yield kg/ha	volume weight kg/hl	plant height cm	days to heading from 1/1
TX95A3091	11	5217	79.9	92	121
TX91A333	8	4746	80.0	75	119
NW97S343	19	4745	78.0	84	123
NW97S195	17	4695	76.8	95	122
TX95V5314	12	4624	78.5	92	123
CO95O635	14	4577	78.1	92	123
TX95A1161	10	4544	79.1	86	118
NW97S189	26	4502	77.6	99	128
OK95G701	5	4471	80.1	81	118
N96L9938	23	4414	74.4	94	124
TX90A9528	7	4413	76.7	86	123
NW97S192	27	4339	77.1	95	127
N96L9970	24	4333	76.2	85	122
Trego	2	4317	80.1	85	124
NW97S151	18	4275	76.5	86	123
NW97S412	28	4158	76.5	102	118
Larned	1	4103	79.1	99	121
TX92V3315	9	3969	78.8	73	117
N95L11881	22	3943	78.3	93	123
OK97G611	6	3919	78.5	86	121
NW97S182	25	3899	77.6	93	122
Arapahoe	4	3853	75.6	95	127
CO95O379	13	3793	78.2	92	122
NE96632	16	3735	78.1	101	125
NE96435	15	3636	76.7	97	129
Prowers	3	3351	79.1	90	127
N95L11869	20	3072	76.2	87	118
N95L11873	21	2068	76.7	89	123
mean		4133	77.8	90	123
l.s.d. (0.05)		766			
c.v. (%)		11			

Table 1, contd.

Hereford, Texas, two replications			
line	entry	yield kg/ha	head shattering 0-9
NW97S343	19	2983	1
CO950635	14	2714	1
N96L9938	23	2690	1
Trego	2	2492	2
TX90A9528	7	2461	1
TX95A3091	11	2458	1
Larned	1	2404	2
Prowers	3	2401	2
Arapahoe	4	2354	1
TX95V5314	12	2344	3
TX92V3315	9	2317	2
NE96435	15	2290	2
CO950379	13	2270	2
TX91A333	8	2250	1
TX95A1161	10	2216	1
N95L11881	22	2165	1
N96L9970	24	2165	3
NW97S189	26	2108	1
NE96632	16	2102	2
N95L11869	20	2095	3
NW97S412	28	2095	2
OK95G701	5	2044	3
NW97S195	17	2024	1
OK97G611	6	1981	3
NW97S151	18	1977	2
NW97S192	27	1977	1
NW97S182	25	1873	2
N95L11873	21	1671	4
mean		2247	1.8
l.s.d. (0.05)		543	
c.v. (%)		12	

Table 1, contd.

Akron, Colorado, three replications				
line	entry	yield kg/ha	volume weight kg/hl	plant height cm
TX95A3091	11	4252	79.0	79
TX90A9528	7	3977	77.7	75
TX91A333	8	3952	80.4	64
NW97S412	28	3939	78.7	84
TX92V3315	9	3869	80.4	64
NW97S192	27	3851	79.1	82
CO950635	14	3833	78.6	74
NW97S343	19	3815	77.6	75
NW97S189	26	3806	79.0	81
NW97S195	17	3800	78.8	82
NW97S182	25	3759	78.4	80
TX95V5314	12	3741	78.0	79
Prowers	3	3661	80.2	87
Trego	2	3654	80.4	66
TX95A1161	10	3645	79.5	69
Larned	1	3605	79.3	86
N96L9970	24	3582	75.1	68
CO950379	13	3571	78.5	81
Arapahoe	4	3553	76.5	74
NE96632	16	3526	78.6	82
NE96435	15	3513	77.1	86
OK95G701	5	3423	80.5	63
N96L9938	23	3392	72.5	75
OK97G611	6	3371	79.7	73
NW97S151	18	3371	73.7	72
N95L11881	22	3295	77.1	80
N95L11869	20	3239	77.6	76
N95L11873	21	3037	78.6	75
mean		3644	78.2	76
l.s.d. (0.05)		422		
c.v. (%)		7		

Table 1, contd.

Goodwell, Oklahoma (irrigated), three replications				
line	entry	yield kg/ha	volume weight kg/hl	plant height cm
TX92V3315	9	6431	79.0	87
TX91A333	8	6351	79.0	85
TX95A1161	10	6084	77.3	96
N96L9970	24	6082	72.7	88
NW97S343	19	6055	77.8	90
CO950635	14	6001	77.2	95
N96L9938	23	5927	73.1	97
TX90A9528	7	5900	75.8	98
NW97S189	26	5790	76.3	101
NW97S412	28	5786	76.2	105
TX95A3091	11	5741	78.6	100
NW97S182	25	5407	77.3	105
OK95G701	5	5369	80.5	92
N95L11881	22	5369	78.0	103
NW97S151	18	5315	75.8	96
Trego	2	5189	79.5	95
CO950379	13	5160	77.7	100
NW97S192	27	5156	76.2	103
Larned	1	5091	78.5	107
TX95V5314	12	4941	75.9	104
Prowers	3	4826	79.6	107
OK97G611	6	4782	78.3	92
Arapahoe	4	4647	74.8	101
NW97S195	17	4645	76.6	100
NE96632	16	4613	76.9	106
NE96435	15	4582	76.5	105
N95L11869	20	4022	77.2	99
N95L11873	21	3705	77.6	101
mean		5320	77.1	98
l.s.d. (0.05)		820		
c.v. (%)		9		

Table 1, contd.

Colby, Kansas, three replications					
line	entry	yield kg/ha	volume weight kg/hl	plant height cm	days to heading from 1/1
TX91A333	8	4965	76.3	76	137
TX95A3091	11	4891	74.4	93	140
TX95A1161	10	4664	74.7	88	135
TX95V5314	12	4643	73.1	91	141
OK95G701	5	4491	78.9	83	137
CO950635	14	4431	74.8	88	138
TX92V3315	9	4409	76.6	78	135
NW97S189	26	4384	73.9	100	141
NW97S192	27	4378	74.0	102	141
Arapahoe	4	4360	72.3	95	140
NW97S412	28	4326	72.8	97	137
NW97S182	25	4252	74.4	102	141
NW97S195	17	4247	74.0	100	140
OK97G611	6	4245	76.3	86	138
N96L9970	24	4195	69.3	81	137
N96L9938	23	4171	70.2	91	142
NW97S343	19	4151	72.8	81	138
NW97S151	18	4138	70.3	86	140
CO950379	13	4054	76.4	95	139
NE96435	15	3983	72.0	97	141
Larned	1	3978	76.4	100	137
TX90A9528	7	3898	70.9	83	140
Prowers	3	3894	76.4	97	143
NE96632	16	3821	73.8	98	140
N95L11881	22	3709	74.3	93	141
N95L11873	21	3433	74.6	90	141
Trego	2	3242	78.0	86	141
N95L11869	20	3173	72.9	90	137
mean		4162	74.1	91	139
l.s.d. (0.05)		990			
c.v. (%)		15			

Table 1, contd.

Scottsbluff, Nebraska, three replications				
line	entry	yield kg/ha	volume weight kg/hl	plant height cm
NW97S195	17	3174	81.1	80
Arapahoe	4	3117	76.8	75
NW97S182	25	3063	80.4	84
NW97S189	26	3029	80.7	76
TX90A9528	7	2965	79.0	69
NE96632	16	2933	80.3	79
NW97S151	18	2904	79.4	64
TX95V5314	12	2889	80.5	74
N96L9938	23	2881	77.1	71
NW97S192	27	2877	79.5	78
N96L9970	24	2872	78.0	63
NW97S412	28	2869	78.3	85
Prowers	3	2828	83.0	80
NE96435	15	2798	80.2	80
NW97S343	19	2783	79.9	69
TX92V3315	9	2718	82.7	64
TX95A3091	11	2702	82.1	69
TX95A1161	10	2655	79.6	70
OK97G611	6	2652	83.9	64
TX91A333	8	2609	81.7	61
Trego	2	2602	81.9	72
N95L11881	22	2581	81.8	81
OK95G701	5	2448	85.1	67
CO950635	14	2403	80.7	76
CO950379	13	2346	81.3	69
N95L11869	20	2288	80.9	70
Larned	1	2267	81.6	74
N95L11873	21	2262	79.8	75
mean		2733	80.6	73
l.s.d. (0.05)		385		
c.v. (%)		9		

Table 1, contd.

Archer, Wyoming, three replications						
line	entry	yield kg/ha	volume weight kg/hl	plant height cm	days to heading from 1/1	winter survival %
TX95A3091	11	2829	79.0	54	162	93
Pronghorn		2605	78.4	64	159	95
NW97S189	26	2580	77.1	57	163	94
TX91A346		2573	75.5	56	161	94
TX92V3315	9	2569	79.8	53	159	95
NW97S412	28	2517	75.7	59	160	92
TX95V5314	12	2488	77.9	53	162	93
Larned	1	2443	78.7	57	159	94
Arapahoe	4	2432	76.8	51	162	93
NE96435	15	2423	77.1	58	161	92
CO950635	14	2421	76.8	57	159	93
TX90A9528	7	2417	77.6	53	161	91
NW97S343	19	2412	77.4	54	160	95
TX91A333	8	2410	78.6	52	160	91
CO950379	13	2378	77.7	58	161	95
Prowers	3	2372	79.0	58	162	94
NW97S182	25	2320	78.3	58	162	93
NW97S151	18	2257	73.9	52	162	92
NW97S192	27	2251	78.0	58	162	92
NW97S195	17	2228	77.8	58	161	94
N96L9970	24	2228	75.7	52	161	92
N95L11881	22	2159	76.3	56	162	92
TX95A1161	10	2150	77.8	54	159	91
OK97G611	6	2132	78.6	52	161	91
NE96632	16	2127	78.0	56	160	90
N96L9938	23	2114	72.4	53	162	94
N95L11869	20	2018	78.0	56	160	94
OK95G701	5	2000	80.6	51	161	92
Trego	2	1883	78.9	50	162	93
N95L11873	21	1766	77.1	52	162	95
mean		2317	77	55	161	93
l.s.d. (0.05)		410				
c.v. (%)		11				



Table 1, contd.

Dakota Lakes, South Dakota, three replications					
line	entry	yield kg/ha	volume weight kg/hl	plant height cm	days to heading from 1/1
NW97S189	26	5286	74.2	107	153
NW97S182	25	5228	82.8	103	153
CO950635	14	5216	67.9	100	150
TX95A3091	11	5154	76.2	98	153
N95L11869	20	5033	77.8	100	152
NW97S151	18	5001	71.9	94	151
TX90A9528	7	4909	78.2	96	153
OK95G701	5	4891	78.0	91	150
TX95V5314	12	4799	74.0	97	152
N95L11873	21	4786	80.6	104	151
NW97S195	17	4770	75.1	103	153
NW97S412	28	4761	74.2	108	149
NW97S192	27	4757	75.3	107	154
N95L11881	22	4750	78.4	102	152
SD93267		4721	80.2	118	152
Trego	2	4710	75.3	86	151
N96L9970	24	4528	69.7	91	150
Harding		4407	76.6	108	154
NW97S343	19	4378	74.0	86	151
N96L9938	23	4365	71.5	100	154
Arapahoe	4	4322	74.2	98	152
TX92V3315	9	4268	76.6	89	148
OK97G611	6	4241	78.2	93	149
TX91A333	8	4235	73.7	99	149
NE96632	16	4154	76.8	114	151
TX95A1161	10	4102	72.8	91	150
CO950379	13	4096	74.6	99	151
Prowers	3	3803	79.5	103	152
Larned	1	3566	76.9	111	149
NE96435	15	3484	78.4	108	152
mean		4557	76	100	151
l.s.d. (0.05)		738			
c.v. (%)		10			

Table 1, contd

Bozeman, Montana, unreplicated						
line	entry	yield kg/ha	volume weight kg/hl	days to heading from 1/1	plant height cm	grain protein %
OK97G611	6	9732.4	79.2	168	99.0	13.4
NW97S151	18	9121.9	76.1	167	95.0	13.4
N95L11869	20	9020.3	77.0	167	108.0	15.1
N95L9970	24	8857.0	75.6	166	91.0	13.1
TX95A1161	10	8776.9	78.6	167	96.0	13.3
TX95V5314	12	8736.2	77.3	169	101.0	13.5
NW97S343	19	8502.7	79.1	168	89.0	12.5
NW97S195	17	8432.4	77.3	168	105.0	14.2
TX91A333	8	8422.9	80.1	167	89.0	12.1
TX90A9528	7	7920.5	76.9	168	97.0	13.9
Arapahoe	4	7900.7	77.8	169	104.0	14.1
Trego	2	7849.6	79.7	169	96.0	12.8
OK95G701	5	7668.5	80.8	168	94.0	13.9
CO950635	14	7622.6	78.0	168	97.0	12.8
NW97S192	27	7622.3	77.8	169	98.0	13.6
NW97S182	25	7590.4	78.2	169	107.0	13.6
NW97S412	28	7576.6	76.9	166	111.0	13.4
TX92V3315	9	7567.7	79.3	167	87.0	13.6
NE96632	16	7420.3	78.1	168	118.0	14.0
CO950379	13	7395.1	78.3	169	103.0	13.0
N95L11881	22	7115.3	77.9	169	107.0	13.7
NW97S189	26	7037.7	77.6	169	103.0	13.5
Prowers	3	6803.5	79.8	169	121.0	13.9
TX95A3091	11	6659.3	79.7	169	99.0	12.5
N96L9938	23	6557.5	73.7	168	95.0	12.5
Larned	1	6249.8	78.7	167	114.0	14.5
NE96435	15	5812.2	75.9	169	111.0	15.6
N95L11873	21	5237.7	77.2	169	100.0	15.3
mean		7686	78	168	101	14



Table 3. Summary of agronomic and yield data for 28 wheats grown in the 1999 WPRPN.

line	entry	yield kg/ha	volume weight kg/hl	days to heading after 1/1	plant height cm
number of locations		8	7	4	7
TX95A3091	11	4229	78.6	144	84
CO950635	14	4075	77.1	141	84
NW97S189	26	4015	77.3	146	89
TX91A333	8	4013	78.9	141	73
NW97S343	19	3956	76.9	143	77
TX92V3315	9	3944	79.5	138	74
TX90A9528	7	3929	76.4	144	80
NW97S412	28	3881	76.2	141	91
TX95V5314	12	3872	77.0	144	84
TX95A1161	10	3825	77.6	141	79
N96L9970	24	3817	74.1	143	75
NW97S182	25	3806	78.1	145	89
NW97S192	27	3773	77.3	146	89
NW97S195	17	3771	77.5	144	88
N96L9938	23	3764	73.0	146	83
NW97S151	18	3728	74.5	144	78
OK95G701	5	3712	80.9	141	75
Arapahoe	4	3633	75.4	145	84
Trego	2	3555	79.5	144	77
N95L11881	22	3554	77.6	144	87
CO950379	13	3510	78.1	143	85
OK97G611	6	3478	79.3	142	78
Larned	1	3477	78.8	142	91
NE96632	16	3432	77.6	144	91
Prowers	3	3418	79.6	145	88
NE96435	15	3384	76.7	146	90
N95L11869	20	3162	77.3	142	83
N95L11873	21	2892	77.6	144	84

Table 4. Seedling reaction of entries of the 1999 Western Plains Regional Performance Nursery to selected isolates of leaf rust. (D.V. Mcvey, USDA-ARS, Cereal Disease Laboratory, U. of MN, St. Paul, Mn. 55108)

line	entry	Leaf Rust Isolate								postulated LR gene
		TDBM	TCLH	PLLM	TLLC	MGBM	PNMR	KDBM	PLMR	
Larned	1	S	S	;1-C		S	;1C	S	0;	+
Trego	2	;1-C		;1C		;1-C	;1-C	;1C	0;	24,26
Prowers	3	S	S	;1-C 3 MIX	; 3 MIX	S	;12C	S		+
Arapahoe	4	1CN				;1-C	;1-C	1CN	0	24,26
OK95G701	5	S		;1-C		;1-C	S	S	0;	24
OK97G611	6	;1-C	;1C	;1C	1C	S;;1-C	S	;1C	0;	24,30?
TX90A9528	7	S	;C	2-C	2C	S	S	S	S	10,+
TX91A333	8	S		0;		;1-C	;12C	S	0;	24,2a
TX92V3315	9	S				;1-C,S	S	2C;;1-C		1,24
TX95A1161	10	S	S	S	S	S	S	2C	;;S	+
TX95A3091	11	;1-C	;C	;1-C	; 3 MIX	;1C	;1-C	;1C		24,26
TX95V5314	12	S	;1C	;1C	;1-C	;1C	1C	2C	;1-C	24,11
CO950379	13	S	S	S	S	S	S	2C	;12C	+
CO950653	14	;1-C,S	;1C,S	S;;1-C	S;;1-C	S	S	2C;;1-C	;1-C,2C	+
NE96435	15	;1-C	S,1C	1	S;;1-C	S;;1C	2CN;;1-C	S;;1-C	;1-C,S	+
NE96632	16	S	S	S	S	S;;1-C	S	S	S;;1-C	+
NW97S195	17	1CN	;1CN	12CN	1CN	S	21CN	1C	2CN	16
NW97S151	18			;1-C	0;	;1-C				24,26
NW97S343	19	;12C	S	;1-C	;1-C 3 MIX	;12C	;1-C	S	;1-C	+
N95L11869	20	;1C,S	S;;1-C	1C	0	;1C	;1-C,S		;1-C	1,24,26
N95L11873	21	;1C	;1-C		0					1,24,26,+
N95L11881	22	;1-C	S;;	;1CN	0;	;1-C	;1-C	;1-C	;1-C	24,26
N96L9938	23	12CN	1CN	12CN	12CN	S	1CN	1CN	2CN	16
N95L9970	24	S	S	S	S	S	S	S;;1-C	S	+
NW97S182	25	12CN	;1CN	21CN	1-CN	S	12CN	0;	12C	1,16
NW97S189	26	12CN	1CN	2CN	1CN	S	21CN	0;	21C	1,16
NW97S192	27	;1CN	;1CN	2CN	12CN	S	12CN;;	0;	21C	1,16
NW97S412	28	1CN	;1-CN	2CN	1CN	S	12CN	0;	21C	1,16

Table 5. Seedling reaction of entries in the 1999 WPRPN to selected isolates of stem rust (D. McVey, USDA-ARS).

line	entry	Stem rust isolate							postulated SR genes
		TTRT	RTRQ	TPMK	QKCS	RHMS	RTHJ	RTQQ	
Larned	1	;	S	S	2	S	2	;	17
Trego	2	2=	2=	;	2=	2=	2-	2=	6,24,31
Prowers	3	1	2=	2=	2=	2=	2-	;	17,24
Arapahoe	4	1	2	;	2=	;1	1	;	6,24,31
OK95G701	5	2=	2=	2	2=	;1	2-	2-	Amigo
OK97G611	6	S	S	S	S	S	S	2-	?
TX90A9528	7	2	S	S	S	2	S	2	?
TX91A333	8	1	2=	2=	2=	2=	2=	1	Amigo
TX92V3315	9	2=	2=	2=	2=	;1	2=	;1	Amigo
TX95A1161	10	S?	2=	2	2=	;1	2-	2=	Amigo
TX95A3091	11	;	2-	;	2	2	2-	2=	6,Amigo
TX95V5314	12	1	2	S	S	2	2	2	+
CO950379	13	S,2=	S,2=	S	S	2	S,2=	;12	+
CO950653	14	S,2=	S,2=	S	S	2=	S	2	+
NE96435	15	0	S,2=	;	S	S	S	;2	6
NE96632	16	0	2=	;	2-	2=	2=	2-	6
NW97S195	17	S	XN	;	2=	1N	S	S	6,+
NW97S151	18	1	2=	2=	2=	;1	;1	;	17,24,31
NW97S343	19	2	2	S	S	;	2	2	+
N95L11869	20	2=	2=	;1	2=	2=	;1	2=	6,24,31
N95L11873	21	2=	2=,S	1	2-	;1	;1	;1	24,31
N95L11881	22	2=	2=	1	2=	;1	;1	2=	24,31
N96L9938	23	2=	S	;	S	S	S	;1	6,17
N95L9970	24	2=,S	S	S	S	S	S	S	None
Nw97S182	25	S	S	;	S	S	S	2	6,+
Nw97S189	26	2-	S	;	2=	S,2=	S	;1N	6,10
Nw97S192	27	S	S	;	S	S	S	;	6,17
Nw97S412	28	S	S	;	S	S	S	;1N	6,10

Table 6. Miscellaneous quality-related traits.

line	entry	1RS status	waxy genotype*	PPO**
Larned	1	NON.1RS	wild-type	
Trego	2	NON.1RS	<i>wx-B1</i> null	2
Prowers	3	NON.1RS	wild-type	2
Arapahoe	4	NON.1RS	wild-type	3
OK95G701	5	NON.1RS	<i>wx-B1</i> null	3
OK97G611	6	NON.1RS	<i>wx-B1</i> null	3
TX90A9528	7	NON.1RS	wild-type	3
TX91A333	8	1AL.1RS	<i>wx-B1</i> null	3
TX92V3315	9	1AL.1RS	wild-type	3
TX95A1161	10	NON.1RS	wild-type	3
TX95A3091	11	NON.1RS	wild-type	3
TX95V5314	12	NON.1RS	wild-type	1
CO950379	13	NON.1RS	wild-type	4
CO950635	14	NON.1RS	wild-type	3
NE96435	15	1BL.1RS	wild-type	2
NE96632	16	NON.1RS	wild-type	1
NW97S195	17	NON.1RS	wild-type	2
NW97S151	18	1BL.1RS	wild-type	1
NW97S343	19	NON.1RS	wild-type	1
N95L11869	20	1BL.1RS	wild-type	2
N95L11873	21	1BL.1RS	wild-type	2
N95L11881	22	1BL.1RS	wild-type	2
N96L9938	23	1AL.1RS	wild-type	1
N96L9970	24	1AL.1RS	wild-type	4
NW97S182	25	NON.1RS	wild-type	2
NW97S189	26	NON.1RS	wild-type	1
NW97S192	27	NON.1RS	wild-type	1
NW97S412	28	NON.1RS	wild-type	1
*waxy genotype = granule-bound starch synthase (waxy locus) alleles				
***PPO = polyphenol oxidase activity, whole grain, 0-5 scale, cv. Platte (value=1) used as control				

Table 7. Adult plant field reactions to inoculation with leaf and stem rust, St. Paul, MN.

entry	line	leaf rust 6/25/99	stem rust 7/6/99
1	Larned	50S	10R-MR
2	Trego	TMR	TR
3	Prowers	TMR-MS	TR
4	Arapahoe	5MR	TR
5	OK95G701	10MS-S	5R-MR
6	OK97G611	20S	10MS-S
7	TX90A9528	60S	20MS-S
8	TX91A333	60S	10MS
9	TX92V3315	80S	10MS
10	TX95A1161	60S	30S
11	TX95A3091	10MS-S	10MS-S
12	TX95V5314	10MR	60MS-S
13	CO950379	80S	40MS-S
14	CO950653	10MR-MS	30S
15	NE96435	5R-MR	TR
16	NE96632	40S	TR
17	NW97S195	20MR-MS	TMR-MS
18	NW97S151	TMR	0
19	NW97S343	5MR-S	TR
20	N95L11869	5MR	TR-MR
21	N95L11873	5MR,30S	TR
22	N95L11881	20MR-S	5MR
23	N96L9938	30S	10MS
24	N95L9970	40S	40S
25	Nw97S182	5MR	30MR-S
26	Nw97S189	10MR-MS	30MS-S
27	Nw97S192	5MR	40MS-S
28	Nw97S412	30S	30MS-S