

2018 Winter Wheat - Recrop

Dickinson, ND

Variety	Winter Survival	Heading Date from 1/1	Seeds		Plant Height in	Test Weight lbs/bu	Protein %	----- Grain Yield-----			Average Yield	
			per Pound	2016				2017	2018	2	3	
										Year	Year	
							-----bu/ac-----			bu/ac	bu/ac	
AAC Goldrush	100	162	13,871	28	61.4	13.9	--	--	89.9	--	--	
AAC Wildfire	100	163	12,251	30	61.3	13.4	--	--	92.8	--	--	
AC Broadview	100	161	13,960	26	61.3	12.7	37.2	54.3	89.7	72.0	60.4	
AC Emerson	100	161	15,384	27	61.4	14.6	31.7	52.5	83.1	67.8	55.8	
AC Gateway	100	160	13,207	25	62.3	13.9	32.0	48.3	85.8	67.0	55.3	
Accipiter	100	162	15,804	27	61.6	13.2	37.8	53.8	91.2	72.5	60.9	
CDC Chase	100	160	13,810	28	62.3	13.7	35.1	56.4	85.5	70.9	59.0	
Decade	100	160	13,288	25	61.4	14.6	34.0	59.1	85.1	72.1	59.4	
Ideal	100	160	12,989	25	62.8	13.2	40.3	52.1	90.6	71.3	61.0	
Jerry	100	160	11,995	29	61.1	13.7	28.9	58.4	84.6	71.5	57.3	
Keldin	100	162	10,962	26	61.5	13.7	--	59.9	99.0	79.5	--	
Loma	100	162	16,334	26	58.3	13.5	31.6	45.2	80.2	62.7	52.3	
Lyman	100	159	12,467	27	61.4	14.5	35.6	54.7	80.7	67.7	57.0	
Moats	100	161	13,650	29	62.4	13.3	31.8	57.6	91.5	74.6	60.3	
Northern	100	162	14,005	27	60.8	13.2	36.5	51.5	85.2	68.4	57.7	
Oahe	100	160	12,627	26	60.5	13.8	--	54.5	74.7	64.6	--	
Overland	100	158	13,445	27	61.0	14.3	31.7	58.2	75.3	66.8	55.1	
Overland-FHB1	100	158	13,705	26	60.6	14.6	--	55.8	71.0	63.4	--	
Peregrine	100	161	13,817	32	61.9	12.6	37.9	58.6	90.6	74.6	62.4	
Redfield	100	159	12,186	25	62.0	14.2	33.9	53.3	86.4	69.9	57.9	
SY Monument	100	158	12,990	22	59.8	14.1	48.7	62.0	76.2	69.1	62.3	
SY Sunrise	100	158	13,751	20	60.8	13.6	38.7	60.2	64.1	62.1	54.3	
SY Wolf	100	159	14,003	25	59.0	14.5	44.7	57.9	80.5	69.2	61.0	
Thompson	100	160	15,261	27	60.6	14.0	--	--	84.4	--	--	
WB Matlock	100	161	13,309	27	61.1	14.7	40.2	60.9	82.9	71.9	61.3	
WB4462	100	156	10,774	24	61.8	13.5	38.6	56.2	68.7	62.4	54.5	
Trial Mean	100	160	13,443	26	61.1	13.8	34.4	55.2	83.3	--	--	
CV %	0	0.6	6.0	5.1	1.6	3.4	16.5	9.0	8.8	--	--	
LSD 0.05	0	1	1,140	2	1.4	0.8	9.3	7.0	10.3	--	--	
LSD 0.10	0	1	953	2	1.2	0.6	7.7	5.9	8.6	--	--	

Planting Date: September 20, 2017

Harvest Date: August 2, 2018

Previous Crop: Cover Crop

Seeding Rate: 1 million live seeds/ac

2018 Oat - Recrop

Dickinson, ND

Variety	Days to Head	Seeds per Pound	Plant Height in	Test Weight lbs/bu	----- Grain Yield-----			----- Average Yield-----	
					2016	2017	2018	2016	2017
					-----bu/ac-----			-----bu/ac-----	
AC Pinnacle	61	14,105	33	35.6	150.3	83.4	116.2	99.8	116.6
Beach	59	17,026	33	37.1	130.9	70.3	83.5	76.9	94.9
CDC Dancer	58	15,339	33	37.0	135.3	74.4	95.3	84.8	101.6
CDC Minstrel	60	14,524	32	34.5	133.9	70.2	106.0	88.1	103.4
Cs Camden	59	14,365	33	33.6	--	72.4	111.4	91.9	--
Deon	59	13,986	33	36.8	126.9	76.1	95.5	85.8	99.5
Hayden	58	13,696	33	39.1	140.7	80.9	117.4	99.2	113.0
HiFi	58	14,833	35	37.9	123.3	69.7	109.4	89.5	100.8
Hystest	58	13,868	37	39.9	108.3	66.0	101.6	83.8	92.0
Jury	58	15,633	37	36.9	111.2	73.2	95.2	84.2	93.2
Killdeer	58	15,866	29	35.9	125.3	81.8	109.3	95.5	105.5
Leggett	60	14,385	32	36.4	133.4	70.9	95.4	83.2	99.9
Newburg	57	15,580	36	34.9	115.9	73.2	82.1	77.6	90.4
Otana	59	16,380	36	35.0	126.1	76.5	97.7	87.1	100.1
Paul*	60	17,060	33	40.9	91.8	43.3	82.2	62.8	72.5
Rockford	59	16,522	32	38.5	133.2	71.2	99.1	85.1	101.2
Souris	58	15,776	31	36.6	111.5	78.2	94.5	86.3	94.7
Stallion	58	17,635	31	33.5	118.4	83.2	103.6	93.4	101.7
Trial Mean	58	14,937	34	36.6	122.8	72.9	100.7	--	--
CV %	1.1	5.1	7.9	2.5	9.0	9.6	13.7	--	--
LSD 0.05	1	1,077	4	1.3	15.5	9.8	19.3	--	--
LSD 0.10	1	901	3	1.1	12.9	8.2	16.1	--	--

Planting Date: May 3, 2018

Harvest Date: August 7, 2018

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Previous Crop: Cover Crop

Seeding Rate: 1 million live seeds/ac

Trial receive hail at @ 5 leaf stage

2018 Barley - Recrop

Dickinson, ND

Variety	Days to Head	Seeds per Pound	Plant Height in	Test Weight lbs/bu	Protein %	Plump % >6/64	----- Grain Yield-----			----- Average Yield-----	
							2016	2017	2018	2016	2017
							-----bu/ac-----			----bu/ac----	
Six Row											
Celebration	62	11,315	30	52.0	16.3	92.1	74.3	49.2	119.9	84.5	81.1
Innovation	59	10,400	30	52.5	14.3	94.0	77.8	50.0	127.1	88.6	85.0
Lacey	60	10,663	29	52.5	15.0	93.3	75.2	45.6	126.3	85.9	82.3
Quest	61	11,315	31	52.0	13.7	87.5	74.5	47.3	124.0	85.7	82.0
Stellar-ND	60	10,028	30	51.6	13.8	95.1	75.2	46.7	137.9	92.3	86.6
Tradition	61	10,408	30	53.3	14.6	93.8	69.5	45.6	124.9	85.3	80.0
Two Row											
AAC Synergy	62	8,949	30	52.8	13.9	95.5	90.3	47.4	141.3	94.3	93.0
ABI Balster	62	9,826	29	52.0	14.4	91.1	92.4	47.8	134.6	91.2	91.6
ABI Growler	63	9,662	29	50.5	14.6	92.0	86.9	46.3	132.7	89.5	88.6
ND Genesis	57	8,987	31	51.3	12.5	93.6	88.7	49.3	134.4	91.8	90.8
Conlon	56	9,124	30	53.4	14.3	96.0	54.2	45.8	79.9	62.8	59.9
Explorer	60	8,804	25	52.9	14.1	94.9	--	54.1	134.5	94.3	--
LCS Genie	64	9,647	26	51.4	13.7	92.1	97.1	46.2	128.2	87.2	90.5
Pinnacle	60	8,580	31	53.0	13.6	96.4	80.3	45.7	133.9	89.8	86.6
Sirish	63	9,541	25	52.3	14.2	95.7	91.4	45.3	132.6	88.9	89.7
Trial Mean	60	9,769	29	52.1	14.0	94	81.3	48.8	127.8	--	--
CV %	1.6	4.4	4.0	1.4	3.9	1.4	9.2	9.7	7.2	--	--
LSD 0.05	1	613	2	1.0	0.9	2	10.6	6.7	13.0	--	--
LSD 0.10	1	512	1	0.8	0.7	2	8.8	5.6	10.8	--	--

Planting Date: April 27, 2018

Harvest Date: August 9, 2018

Previous Crop: Cover Crop

Seeding Rate: 1.2 million live seeds/ac

Grain protein percentages reported on a 0% moisture basis

2018 Glen Ullin Barley - Recrop

Dickinson, ND

Variety	Seeds per Pound	Test Weight lbs/bu	% Plump >6/64	Protein %	-----Grain Yield-----			Average Yield	
					2016	2017	2018	2	3
					-----bu/ac-----			----bu/ac----	
Six Row									
AAC Synergy	7,679	50.4	98	16.5	--	--	132.4	--	--
Innovation	10,565	51.5	93	15.7	60.7	63.3	111.4	87.4	78.5
Tradition	10,446	51.5	93	15.7	--	65.6	106.3	85.9	--
Two Row									
ND Genesis	8,272	50.3	97	15.0	72.5	65.8	115.8	90.8	84.7
Pinnacle	7,892	51.0	98	16.2	60.8	58.5	117.6	88.1	79.0
Sirish	8,594	50.6	97	15.8	--	67.3	123.6	95.5	--
Trial Mean	8,908	50.9	96	15.8	61.2	64.6	117.9	--	--
CV %	5.6	1.5	0.8	2.6	6.3	11.3	9.2	--	--
LSD 0.05	755	1.2	1	0.7	5.8	NS	16.3	--	--
LSD 0.10	621	1.0	1	0.6	4.7	NS	13.4	--	--

Planting Date: May 14, 2018

Harvest Date: August 16, 2018

Previous Crop: S Wheat

Seeding Rate: 1.2 million live seeds/ac

Grain protein percentages reported on a 0% moisture basis

2018 Durum - Recrop

Dickinson, ND

Variety	Days	Seeds	Plant Height	Test Weight	Protein	----- Grain Yield-----			----- Average Yield -----	
	to Head	per Pound				2016	2017	2018	2	3
			in	lbs/bu	%	-----bu/ac-----			-----bu/ac-----	
AC Commander	59	10,416	29	60.8	15.3	47.6	31.1	48.1	39.6	42.3
Alkabo	59	10,477	31	61.6	14.7	53.1	32.0	63.2	47.6	49.4
Alzada	55	10,784	25	59.0	15.0	39.9	35.0	38.4	36.7	37.8
Ben	59	9,636	34	61.4	15.4	43.7	33.0	56.5	44.7	44.4
CDC Verona	63	10,046	36	61.1	15.1	47.7	29.8	64.1	47.0	47.2
Carpio	61	10,618	34	61.5	14.3	52.5	33.2	57.9	45.5	47.8
Divide	60	9,966	34	61.5	15.1	54.2	33.2	62.4	47.8	49.9
Grenora	58	10,770	31	60.4	15.2	51.5	35.2	55.9	45.5	47.5
Joppa	59	10,526	35	62.0	14.2	56.7	34.0	65.8	49.9	52.2
Lebsock	58	11,070	33	62.4	14.5	52.8	31.8	59.1	45.5	47.9
Maier	60	11,292	30	61.3	15.5	45.1	32.4	57.5	44.9	45.0
Mountrail	60	11,003	35	61.6	14.6	50.3	35.9	64.8	50.3	50.3
ND Grano	61	10,607	33	62.1	14.8	48.5	32.9	64.5	48.7	48.6
ND Riveland	60	10,179	35	61.0	14.6	52.1	32.4	60.1	46.3	48.2
Pierce	58	11,197	34	62.5	14.4	48.2	32.5	56.8	44.7	45.8
Rugby	60	11,254	39	61.6	14.8	45.8	31.8	63.2	47.5	46.9
Strongfield	61	10,784	34	61.1	15.8	51.2	33.8	60.3	47.1	48.5
Tioga	60	10,026	35	61.8	14.5	51.5	32.8	63.3	48.1	49.2
VT Peak	59	10,217	34	62.5	15.0	51.7	30.0	60.3	45.2	47.3
Trial Mean	60	10,418	34	61.7	14.8	50.2	31.9	61.6	--	--
CV %	1.4	8.6	5.4	0.7	3.2	9.6	9.9	9.0	--	--
LSD 0.05	1	1,252	3	0.6	0.8	6.8	4.4	7.8	--	--
LSD 0.10	1	1,048	2	0.5	0.7	5.7	3.7	6.5	--	--

Planting Date: May 1, 2018
 Harvest Date: August 20, 2018
 Previous Crop: Cover Crop
 Seeding Rate: 1.2 million live seeds/ac

2018 Field Pea - Recrop

Dickinson, ND

Variety	Days	Days	1000	Seeds	Plant	Test	Protein	--Grain Yield--			Average Yield	
	to	to	Seed	per				Height	Weight	2016	2017	2018*
	Flower	Mature	Weight	Pound	in	lbs/bu	%	-----bu/ac-----			--bu/ac--	
Yellow Types												
Agassiz	53	86	223	2,038	23	62.6	30.1	31.2	21.6	23.1	22.4	25.3
Bridger	48	86	221	2,052	21	63.2	28.2	--	--	23.1	--	--
DS Admiral	52	85	258	1,765	22	62.8	28.2	29.7	23.1	25.7	24.4	26.2
Durwood	53	89	271	1,697	28	64.3	27.7	--	22.8	25.5	24.1	--
Hyline	51	86	271	1,676	22	63.1	28.6	--	--	25.3	--	--
Navarro	49	86	247	1,844	23	63.0	27.8	--	--	23.4	--	--
Nette 2010	48	83	218	2,080	21	63.3	29.6	27.9	25.4	21.7	23.6	25.0
Salamanca	50	87	281	1,613	23	62.1	29.4	--	--	26.5	--	--
Spider	51	87	231	1,969	23	63.0	29.2	22.6	18.5	28.8	23.6	23.3
Green Types												
Arcadia	49	82	199	2,318	18	62.2	29.1	30.3	25.8	27.9	26.8	28.0
CDC Striker	49	81	209	2,178	20	62.6	28.8	28.4	24.8	25.7	25.3	26.3
Cruiser	48	84	203	2,233	20	61.4	30.5	26.7	22.7	21.0	21.8	23.4
Trial Mean	50	85	236	1,955	22	62.8	28.9	28.1	22.8	24.8	--	--
CV %	1.2	2.0	7.6	7.6	10.0	1.6	2.5	7.4	8.5	17.2	--	--
LSD 0.05	1	3	30	253	4	1.7	1.2	3.1	2.8	NS	--	--
LSD 0.10	1	2	25	210	3	1.4	1.0	2.6	2.3	NS	--	--

Planting Date: May 3, 2018

Harvest Date: August 8, 2018

Previous Crop: Cover Crop

Seeding Rate: 325,000 live seeds/ac

*Trial Received Hail June 16

Grain protein percentages reported on 0% moisture basis

2018 Hard Red Spring Wheat - Recrop

Dickinson, ND

Variety	Days to Head	Seeds per Pound	Plant Height in	Test Weight lbs/bu	Protein %	----- Grain Yield-----			Average Yield	
						2016	2017	2018	2	3
						-----bu/ac-----			----bu/ac----	
AAC Brandon	53	11,201	30	61.1	14.2	--	--	65.1	--	--
AAC Penhold	54	9,711	26	62.1	13.6	--	--	62.7	--	--
AC Goodwin	55	10,661	31	62.1	13.9	--	--	67.4	--	--
Barlow	53	11,737	31	60.4	14.2	48.5	38.1	60.2	49.1	48.9
Bolles	58	11,207	31	60.8	15.6	47.5	34.4	65.0	49.7	48.9
Boost	56	11,170	31	59.6	14.4	52.3	34.7	57.5	46.1	48.2
DynaGro Ambush	52	10,891	30	61.7	14.0	--	34.1	61.6	47.8	--
DynaGro Caliber	54	11,869	26	60.4	15.7	--	31.6	58.1	44.8	--
Elgin-ND	55	11,800	36	60.3	13.5	48.5	36.2	60.1	48.2	48.3
Faller	56	10,772	33	61.5	13.6	47.1	34.5	72.1	53.3	51.2
Glenn	52	11,850	33	62.5	15.2	51.2	34.9	63.5	49.2	49.9
HRS 3100	54	11,558	28	60.5	13.7	--	34.3	62.3	48.3	--
HRS 3419	57	12,734	31	60.2	12.7	60.5	30.7	74.8	52.7	55.3
HRS 3504	55	11,473	28	61.0	13.5	65.0	34.8	70.3	52.6	56.7
HRS 3530	55	11,126	31	60.4	14.9	59.1	33.1	63.1	48.1	51.7
HRS 3616	54	10,642	30	61.2	15.5	48.9	32.7	69.1	50.9	50.3
HRS 3888	54	11,480	29	61.5	14.0	--	--	65.5	--	--
LCS Breakaway	50	11,403	27	61.9	14.6	51.2	32.7	49.6	41.1	44.5
LCS Cannon	50	12,206	29	62.9	12.7	--	--	56.6	--	--
LCS Rebel	52	11,100	32	62.4	14.8	--	33.3	60.4	46.8	--
LCS Trigger	59	11,679	33	60.7	12.6	--	34.0	76.0	55.0	--
Lang-MN	55	12,149	31	61.7	14.4	--	35.7	61.3	48.5	--
Lanning	52	10,968	29	59.1	14.1	--	--	69.5	--	--
Linkert	54	10,729	28	61.1	15.6	52.9	32.8	58.8	45.8	48.2
MS Camaro	52	12,604	26	62.2	14.9	--	33.5	54.0	43.7	--
MS Chevelle	51	11,880	28	61.9	13.0	57.7	35.3	67.3	51.3	53.4
Mott	56	12,617	36	60.8	14.3	45.1	29.8	60.1	45.0	45.0
ND-VitPro	53	11,828	30	61.2	15.0	49.8	28.8	59.6	44.2	46.1
Prosper	56	10,619	33	61.0	13.2	55.0	33.6	59.5	46.5	49.4
Rolag	53	11,118	29	61.8	15.0	52.6	37.1	60.2	48.7	50.0
Sy Ingmar	55	12,149	27	62.1	13.6	56.7	37.0	61.8	49.4	51.8
SY Rockford	55	11,048	31	59.5	14.0	--	38.6	64.9	51.7	--
Sy Soren	54	12,344	28	62.1	14.4	50.1	32.4	61.9	47.2	48.1
Sy Valda	53	11,171	28	60.9	14.1	63.5	38.7	62.9	50.8	55.0
Shelly	56	11,225	29	62.6	13.1	48.7	39.3	70.4	54.9	52.8
Surpass	49	12,854	31	61.2	13.9	56.2	35.6	65.1	50.3	52.3
TCG-Climax	59	12,947	31	61.4	15.7	--	33.9	62.3	48.1	--
TCG Glenville	51	11,709	25	62.0	15.3	--	--	56.0	--	--
TCG Spitfire	57	11,033	30	60.1	14.1	59.7	35.0	66.1	50.6	53.6
WB9479	52	11,107	26	61.8	14.7	--	28.4	62.7	45.5	--

WB9590	52	10,980	26	60.7	14.0	--	34.3	67.5	50.9	--
WB9653	54	11,410	28	60.7	12.7	61.8	37.3	69.2	53.3	56.1
WB9719	54	11,818	27	63.4	13.6	--	38.7	71.3	55.0	--
Trial Mean	54	11,478	30	61.3	14.2	52.7	34.4	63.1	--	--
CV %	1.4	4.1	3.7	1.6	4.6	10.4	11.2	8.5	--	--
LSD 0.05	1	653	2	1.3	1.1	7.6	5.4	7.5	--	--
LSD 0.10	1	547	1	1.1	0.9	6.4	4.5	6.2	--	--

Planting Date: May 2, 2018

Harvest Date: May 14, 2018

Previous Crop: Cover Crop

Seeding Rate: 1.2 million live seeds/ac

2018 Glen Ullin Spring Wheat - Recrop

Dickinson, ND

Variety	Seeds per Pound	Test Weight lbs/bu	Protein %	----- Grain Yield-----			Average Yield	
				2016	2017	2018	2	3
				-----bu/ac-----			----bu/ac----	
Barlow	12,453	61.4	14.8	33.6	33.9	72.8	53.3	46.8
Boost	12,246	60.3	14.9	--	42.3	75.2	58.8	--
Elgin-ND	12,588	60.9	14.8	31.6	32.5	75.9	54.2	46.6
HRS3100	13,208	59.8	14.5	--	--	76.7	--	--
LCS Rebel	12,061	61.3	15.3	--	--	72.9	--	--
Lang-MN	13,433	61.8	15.3	--	--	70.5	--	--
Mott	12,971	61.1	14.9	34.0	35.4	78.4	56.9	49.3
ND-Vitpro	11,963	62.4	15.4	--	35.3	71.5	53.4	--
Sy Ingmar	14,288	60.8	15.0	--	--	74.5	--	--
Sy Soren	13,947	60.9	15.4	30.1	37.5	70.9	54.2	46.1
Sy Valda	12,422	60.8	14.0	35.3	39.8	77.5	58.6	50.9
WB9590	12,633	60.1	14.8	--	--	81.4	--	--
WB9653	12,359	59.5	14.1	40.3	43.2	76.6	59.9	53.4
Trial Mean	12,813	60.9	14.9	36.2	37.2	75.0	--	--
CV %	6.6	0.8	1.9	7.2	16.4	6.6	--	--
LSD 0.05	1,217	0.7	0.5	3.8	NS	7.1	--	--
LSD 0.10	1,013	0.6	0.4	3.1	NS	5.9	--	--

Planting Date: May 14, 2018

Harvest Date: August 30, 2018

Previous Crop: wheat

Seeding Rate: 1.2 million live seeds/ac