

NOT FOR PUBLICATION  
SUMMARY OF 2016  
WEED CONTROL EXPERIMENTS

Department of Plant Sciences  
North Dakota State University  
Fargo, North Dakota

M. J. Christoffers  
K. A. Howatt  
T. J. Peters

G. Gramig  
B. M. Jenks  
A. Robinson

H. M. Hatterman-Valenti  
R. G. Lym  
R. K. Zollinger

Research Specialists/Technicians

J. W. Adams  
M. G. Ciernia  
A. B. Lueck  
T. Walter

C. P. Auwarter  
P. A. Gregoire  
S. F. Mark  
G. Willoughby

E. Brandvik  
J. D. Harrington  
R. F. Roach  
D. A. Wirth

K. M. Christianson  
P. Ihry  
R. P. Sabba

Graduate Research Assistants

L. Forward  
R. Ibrahim  
J. Peterson

M. D. Hanson  
J. Kluza  
J. Stenger

J. Hinrichson  
C. Z. Lee  
A. Svyantek

S. Hogstad  
K. Nolte

Contributors:

Caleb Dalley, Hettinger Research Extension Center  
Greg Endres, Carrington Research Extension Center  
Clair Keene, Williston Research Extension Center  
Mike Ostlie, Carrington Research Extension Center

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## METHODS

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EPP = Early preplant	MPOST = Mid postemergence
PPI = Preplant incorporated	LPOST = Late postemergence
PEI = Preemergence incorporated	LLPOST = Late-late postemergence
PRE, PE = Preemergence	P, PO, POST = Postemergence
EPOST = Early postemergence	POSTDIR = Postemergence Directed

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## FORMULATION

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ACS = Aqueous capsule suspension	WP = Wettable powder
DF = Dry Flowable	WG, WDG = Water dispersible granules
E, EC = Emulsifiable concentrate	WSP, SP = Water Soluble powder
FL, F = Flowable	G = Granules or gallon/A
L = Liquid flowable	S = Solution
ME = Micro-encapsulated	SC = Suspension concentrate
OD = Oil dispersion	SE = Suspension concentrate
WBF = Water-based flowable	SG = Soluble granules

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## MISCELLANEOUS

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F = Fall	AMS = ammonium sulfate
S = Spring	bee = butoxyethyl ester
Inc., I = Incorporation	dea = diethanolamine salt
Applic = Application	dga = diglycolamine
Cntl = Control	dma = dimethylamine salt
Inju = Injury	ioe = isooctyl ester
%ir, inju = Percent injury rating	MSO, MVO = methylated vegetable oil
%sr, %std, strd = Percent stand reduction	NIS = nonionic surfactant
HT = Plant height	PO, OC, POC = Petroleum oil concentrate (17% emulsifier)
SPK = Spike stage	SURF, S = Surfactant
Tswt, TW = Test weight	TMS = trimethylsulfonium salt
Yld = Yield	28N, UAN = 28% liquid nitrogen fertilizer
alk = alkanolamine salt	
AMN = ammonium nitrate	

## KEY TO ABBREVIATIONS AND EVALUATIONS

Crop injury, crop stand and weed control ratings are based on a visual estimate using a scale of 0 = no effect to 100 = complete kill.

Alfa = Alfalfa	Nabe = Navy bean
Amar = Amaranth	Nfcf = Nightflowering catchfly
Barl, Bar = Barley	Oats = Tame oats
Bdlf = Broadleaf	Pagf = Pale goosefoot
Biww = Biennial wormwood	Pest = Perennial sowthistle
Bubu = Buffalobur	Pesw = Pennsylvania smartweed
Bygr = Barnyardgrass	Pibe = Pinto bean
Cath = Canada thistle	Pigw = Pigweed
Cano = Canola	Poam = Powell amaranth
Cocb = Common cocklebur	Pota = Potato
Colq = Common lambsquarters	Powe = Pondweed
Coma = Common mallow	Prle = Prickley lettuce
Copu = Common purslane	Prmi = Proso millet (tame)
Corw = Common ragweed	Prpw = Prostrate pigweed
Cram = Crambe	Prsp = Prostrate spurge
Cudo = Curly dock	Quin = Quinoa (chenopodium quinoa)
Dali = Dandelion	Qugr = Quackgrass
Dobr = Downy brome	Rrpw = Redroot pigweed
Drbe = Dry bean	Ruth = Russian thistle
Duru = Durum wheat	Safl, Saff = Safflower
Ebns = Eastern black nightshade	Shpu = Sheperdspurse
Fach = False chamomile	Smwe = Annual smartweed
Fibw = Field bindweed	Soyb, Sobe = Soybean
Fipc = Field pennycress	Spsp = Spotted spurge (prostrate spurge)
Fisb = Field sandbur	Sugb, Sgbt = Sugarbeet
Flwe = Flixweed	Snfl, Suf1 = Sunflower
Foba = Foxtail barley, Forage Barley	Swcl = Sweet clover
Fomi, Ftmi = Foxtail millet	Tabw = Tame buckwheat
Fota, Fxtl = Foxtail species	Tamu = Tansy mustard
Girw = Giant ragweed	Tumu = Tumble mustard
Grft = Green foxtail	Tymu = Tame yellow mustard
Gsft = Goosefoot	Vowh = Volunteer wheat
HNS, Hans = Hairy nightshade	Vele = Velvetleaf
Howe = Horseweed	Vema = Venice mallow
HRSW = Hard red spring wheat	Wahe = Waterhemp
KOCZ = Kochia	Wht = Volunteer wheat
Lath = Ladysthumb	Wibw = Wild buckwheat
Lent = Lentils	Wigr = witchgrass
Llsa = Lanceleaf sage	Wimu = Wild mustard
Mael = marshelder	Wioa = Wild oat
Mlgf = Mapleleaf goosefoot	Wipm = Wild-proso millet
Nabe = Navy bean goosefoot	Yeft = Yellow foxtail

### Soil Test Results at Various Weed Experiment Locations

	Soil Texture	Organic Matter	pH	lb/A N	PPM	
					P	K
A. K. Eckre Grassland Preserve (ND)	Loamy sand	2.9	6.8	3	3	70
Absaraka, ND	Loam	2.0	7.2			
Ada, MN (Peters)	Sandy loam	1.8	8.4	120	23	46
Barney, ND (Peters)	Loam	4.9	7.7	48	17	109
Barney, ND (Zollinger)	Loam	4.9	7.7	67	35	165
Bathgate, ND	Silty loam	6.5	7.9	242	38	550
Becker, MN	Sandy loam	1.8	6.6	51	22	140
Casselton, ND	Silty clay	4.0	7.9	Fertilized by test		
Christine, ND (Peters)	Silty clay loam	5.1	8.1	51	10	186
Crookston	Clay	3.0	8.0	211	6	105
Crookston, MN (Peters)	Loam	3.3	8.6	16	10	62
Dwight	Sandy Clay Loam	1.7	7.9	50	4	60
Eckelson, ND	Loam	8.0	7.3	20	5	515
Fargo, ND (campus)	Silty clay	6.8	7.2	Fertilized by test		
Fargo, ND (section 22)	Silty clay	4.5-6.0	7.5	Fertilized by test		
Foxhome, MN (Peters)	Sany loam	3.6	8.4	16	16	114
Geneseo, ND	Loam	6.0	4.0			
Glyndon, MN		4.6	8.1	Fertilized by test		
Hawley, MN	Loam	2.2	8.5	3	4	105
Herman, MN (Peters)	Loam	4.5	7.7	28	20	238
Hettinger, ND	Silty loam	2.9	6.7	Fertilized by test		
Hickson	Clay	7.2	7.5	103	55	975
Hillsboro, ND	Clay loam	4.8	7.6	63	37	189
Inkster, ND	Loamy sand	2.1	6.0	Fertilized by test		
Jamestown, ND (Pipestream Dam)	Loam	6.8	6.8	28	5	290
Mayville, ND (Zollinger)	Sandy Loam	2.5	6.7	17	29	125
Minot, ND	Loam	2.7	7.0	Fertilized by test		
Moorhead, MN	Loam	4.9	7.9	186	104	495
Moorhead, MN (Peters)	Silty clay loam	4.5	8.2	30	33	308
Moorhead, MN (Zollinger)	Silty Clay Loam	4.9	8.1	57	46	360
Murdock, MN (Peters)	Silty clay loam	6.7	8.2	126	20	160
Oakes, ND	Sandy loam	2.0	6.8			
Oriska, ND	Silty clay	4.1	7.4	Fertilized by test		
Oriska, ND (sunflower)	Sandy loam	5.9	3.2			
Ottertail, MN	Sandy loam	1.5	6.6		48	88
Park Rapids, MN	Sandy loam	1.5	6.1	Fertilized by test		
Prosper, ND	Clay loam	3.5	7.5	90	23	315
Prosper, ND (Peters)	Loam	2.7	7.4	74	22	118
Prosper-S, ND (Zollinger)	Clay loam	4.9	8.0	15	41	350
Prosper-N, ND (Zollinger)	Clay loam	4.4	7.5	11	21	325
Roseland, MN (Peters)	Loam	5.5	7.9	104	25	142
Tappen, ND	Sandy loam	1.8	7.6			
Thompson (Zollinger)	Silt clay loam	4.9	7.8	103	11	205
Valley City, ND	Fine loam	8.2	6.7	11	15	640
Wheaton, MN (Peters)	Loam	4.2	6.9	94	24	236
Williston, ND	Loam	2.3	6.8	Fertilized by test		
Wyndmere, ND	Loamy sand	1.9	5.7	Fertilized by test		

**LIST OF HERBICIDES TESTED IN 2015**

Common Name	Abbreviation	Company	Formulation	Trade Name
Acetochlor + Dichlormid	Acet + Dcmd	Dow	6.4 EC 3.2 ME	Surpass, Volley, TopNotch
Acetochlor + Clopyralid + Flumetsulam		Dow	4.25SE	Sure Start
Acetochlor + MON 4660	Acet + 4660	Monsanto	7 EC	Harness
Acetochlor		Monsanto	3.0 SE	Warrant
Acifluorfen	Acif	BASF	2 E, S	Ultra Blazer
Ambicarbazone		Bayer	70 DF	
Aminocyclopyrachlor	AMCP	Bayer	60 DF	Method 25L
Aminopyralid + 2, 4-D	GF-1004 GF-750	Dow	0.33 + 2.67	Forefront
Aminopyralid	Amino	Dow	2SL	Milestone
Atrazine	Atra	Various	90 DF	Several
Atrazine + Pyroxasulfone + Fluthiacet	Atra + Pxsf + Fltc	FMC		
Atrazine+s- metolachlor+Mesotrione+bicycl opyro ne	Atra+meto+meso+bic yclo	Syngenta	2.14+1+0.24+0.06 ZC	Acvuron
Bentazon	Bent, Bsgn	BASF	4 l S	Basagran
Bentazon + Sethoxydim	Bent + Seth	BASF	5 SL 1 EC	Rezult
Bromoxynil	Brox	Bayer	2 EC	Buctril, Several
Bromoxynil & 2, 4-D	Brox + 2, 4-D	Wilbur Ellis	5 EC	Weco Max
Bromoxynil & MCPA	Brox + MCPA (5lb)	Bayer	5 EC	Bronate Advanced
Bromoxynil & fluroxypyr	Brox + Flox	Dow	2.9 EC	Starane NXT
Bromoxynil & Fluroxypyr & MCPA/2,4-D	Brox +Flox +MCPA /2,4-D	Winfield Solutions	1.67 + 0.67 + 1.67 EC	Carnivore /Kochiavore
Bromoxynil & Pyrasulfotole	Brox + Pyst	Bayer	2.8 EC	Huskie
Bromoxynil & Pyrasulfotole & Thiencarbazone	Brox + Pyst + Thez	Bayer	1.46 + 0.26 + 0.042 OD	Huskie Complete
Bromoxynil&Bicyclopyrone	Brox+Bepy	Syngenta	1.46+0.31 EC	Talinor
Carfentrazone	Carf	FMC	40 WG	Aim, Quick Silver
Carfentrazone + 2,4-D	Carf + 2,4-D	FMC	0.13 + 3.9	Rage D-Tech
Carfentrazone + Halosulfuron	Priority	Tenkoz	12.5 + 50 WDG	Priority
Carfentrazone + Sulfentrazone		FMC	0.35+3.15 SE	Spartan Charge
Chlorimuron		DuPont	25 DF	Classic
Chlorsulfuron		DuPont, Bayer	75 WG, 75 WG	Telar / Glean
Clethodim	Clet	Valent Valent Agsco Tenkoz	2 EC 1 EC 2 EC 2 EC	Select Select Max Clethodim Volunteer
Clodinafop	Clfp	Syngenta	2 EC	Discover
Clopyralid	Clpy	Dow v	3 S	Stinger, ClopyrAg, Transline

Clopyralid + 2, 4-D	Clpy + 2,4-D	Dow	0.38 + 2 S	Curtail
Clopyralid & fluroxypyr	Clpy + Flox	Dow/UAP	0.75 + 0.75	Widematch/Colt
Clopyralid + Triclopyr	Clpy + Tric	Dow	0.75 + 2.25 EC	Redeem
Cloransulam	Clor, FrstRt	Dow	84 DF	Amplify, FirstRate
Cycloate	Cycl	Helm Agro	6 EC	Ro-Neet SB
Desmedipham + Phenmedipham	Desm + Phen	Various	0.65 + 0.65 E	Several
Dicamba	Dica	Various	4 S	Banvel, Clarity, Engenia, Several
Dicamba + diflufenzopyr + isoxadifin safener	BAS799	BASF	40 + 16 WDG	Status
Dichlobenil		Uniroyal	4 G	Casoron 4G
Diflufenzopyr + Dicamba	Difl + Dica	BASF	50+ 20 WDG	Distinct, Overdrive
Difenzoquat	Dife	AMVAC	2 S	Avenge
Diflufenzopyr	Difl	BASF	70 WG	None
Dimethenamid-P	Dime	BASF, Rosens	6 EC	Outlook / Propel
Diquat	Diqu	Syngenta, Helm Agcro	2 S	Diquat
EPTC		Gowen	7 EC	Eptam
Ethalfuralin	Etha	Dow	3 EC, 10 G	Sonalan
Ethofumesate	Etho	Various	4 F	Several
Fenoxaprop-P	Fenx	Bayer	1 EC	Puma
Fluazifop-P	Flfp-P	Syngenta	2 EC	Fusilade DX
Flucarbazone-NA	Flcz	Bayer	70 WDG	Everest / PRE-PARE
Flumiclorac		Valent	0.86SL	Resource
Flumetsulam + Clopyralid	Flms + Clpy	Dow	18.5 + 50 WDG	Hornet WDG
Flumetsulam	Flms	Dow	80 WG	Python
Flumioxazin	Flum	Valent, Tenkoz	50 WP	Valor / Encompass
Flumioxazin+Thifensulfuron+ Tribenuron	Flum&Thif&Trib	DuPont	40.8+5+5	Afforia
Flumioxazin + pyroxasulfone		Valent	33.5 + 42.5 WDG	Fierce
Fluroxypyr	Flox	Dow	1.5 EC	Starane
Fluroxypyr + 2, 4-Dioe	Flox + 2,4D	Dow	0.75 + 3 lb/gal EC	Starane + Salvo
Fluroxypyr + MCPAioe	Flox + MCPA	Dow	0.71 + 2.84 EC	Starane + Sword
Fluroxypyr + 2, 4-Ddma	Flox + 2,4Da	Dow	0.5 + 2 EC	Starane + Saber
Fluroxypyr + 2, 4-De		Dow	3.75 EC	Starane + Esteron
Fluroxypyr + MCPAe		Dow	3.55 EC	Starane + MCPA
Fluroxypyr + MCPAe + Clopyralid	Flox+MCPA+clpy	Winfield solutions	0.4 + 1.75 + 0.50 EC	Weld
Florasulam	Flas	Syngenta		not commercial
Florasulam + MCPA	Flas + MCPA	Syngenta	2.373L	Orion
Fluthiacet-methyl	Flut	FMC	0.91 EC	Cadet
Fluthiacet + Pyroxasulfone	Flut + pysf	FMC	0.0632 + 2.09 SC	Anthem
Fomesafen		Syngenta	2 EC	Reflex
Fomesafen + Fluthiacet		Syngenta, FMC	2.88 + 0.12 SC	Marvel

Fomesafen + Adjuvant		Syngenta	1.88 EC	Flexstar
Fomesafen + glyphosate + adjuvants		Syngenta	0.66 + 2.63 SL	Flexstar GT
Fomesafen + glyphosate + adjuvants		Syngenta	0.56 + 2.26 SL	Flexstar GT 3.5
Foramsulfuron + Safener		Bayer	70 WDG	Option
Fosamine		Albaugh	4 S	Krenite
Glufosinate	Gluf, Lbrty	Bayer	1.67 SL ,2.33 SL	Liberty/Ignite 280
Glyphosate-ipa	Glyt	Various	3 ae/gal S	Several
Glyphosate-K	Mon 78270 Touchdown KPMG	Monsanto, Syngenta	4.5 S 4.175	RU Weathermax, Touchdown Total
Halauxifen&Florasulam	Haux&Flas	Dow	0.1+0.1 WDG	Quelex
Glyphosate-(NH <sub>3</sub> ) <sub>2</sub>	Glyt	Syngenta	3 ae/gal S	Touchdown
Halosulfuron	Halo, Prmt	Gowan	75 DF	Permit / Sandea
Imazamethabenz	Immb	BASF	2.5 EC	Assert
Imazamox	Imam, Immx	BASF	1 S	Raptor / Beyond
Imazapic		BASF	2 EC	Plateau
Imazapyr		BASF	2 L	Arsenal
Imazethapyr + Glyphosate		BASF	0.17 + 2SL	Extreme / Tackle
Imazethapyr + Pendimethalin	Imep + Pend	BASF	2.9 EC	Pursuit Plus
Imazethapyr	Imep, Prst	BASF	2 S	Pursuit
Imazethapyr + Saflufenacil	Imep = Saff	BASF	0.5 + 0.178 SC	Balance Pro/Balance Flexx
Indaziflam		Bayer	1.67 EC	Alion
Isoxadifen		Bayer	50 WG	Isoxadifen
Isoxaflutole		Bayer	4 SC, 2 SC	BalancePro / Balance Flexx
Isoxaflutole + thien carbazon + Safener		Bayer	2.63 SC	Corus
Lactofen		Valent	2 EC	Cobra
Linuron		TKI	50 DF	Lorox
MCPA	MCPA	Various	4 EC, S	Several
Mesosulfuron + safener	Mess	Bayer	2 WG	Silverado
Mesosulfuron + Propoxycarbazon	Mess + Precz	Bayer	8.14 + 2.03 WDG	Rimfire
Mesotrione	Mest	Syngenta	4 SC	Callisto
Mesotrione +S-metolachlor		Syngenta	0.33 + 3.3 SC	Camix, Zemax
Mesotrione + S-metolachlor + Atrazine		Syngenta	0.27 + 2.68 + 1 SC	Lumax
S-metolachlor	Meto	Syngenta	7.62 EC	Dual Magnum, Cinch
S-metolachlor + Benoxacor (active isomer)		Syngenta	7.6 E	Dual/II/Magnum
S-metolachlor + Atrazine		Syngenta	2.4 + 3.1 L 3.23 + 2.67L	Bicep II Magnum Bicep Lite II Magnum, Cinch ATZ
S-metolachlor + fomesafen		Syngenta	4.34 + 0.95 EC	Prefix
S-meto + mesotrione + glyt		Syngenta	4.38 SC	Halex GT
Metribuzin	Metr	Bayer	4 F, 75 DF	Sencor, several

Metribuzin + Sulfentrazone	Metr + Suen	FMC	0.27+0.187 WDG	Authority MTZ
Metsulfuron	Mets	DuPont, Bayer	60 DF	Ally, Escort, Cimarron
Metsulfuron+Thifensulfuron+Fluroxypyr	Mets+thif+Flox, STD 71	DuPont	0.025+0.25+1.3 OD	Travallas
Nicosulfuron	Nico	DuPont	75 DF	Accent
Nicosulfuron + Rimsulfuron	Nico + Rims	DuPont	50 + 25 DF	Steadfast
Oxyfluorfen	Oxyf	Dow	2 EC/4 WBF	Goal/Goal Tender
Paraquat	Para	Syngenta	2.5 S	Several
Pendimethalin	Pend	BASF Tenkoz	3.8 ACS 3.3 EC	Prowl / H <sub>2</sub> O Acumen Satellite
Picloram		Dow	2 S	Tordon 22K
Pinoxaden	Pxdn	Syngenta	0.83 EC	Axial
Pinoxaden + Fenoxaprop	Pxdn + Fenx	Syngenta	0.42 + 0.42 EC	Foxfire
Pinoxaden + Florasulam	Pxdn + Flsm	Syngenta	0.774 + 0.0645	Axial TBC
Pinoxaden + Fluroxypyr	Pxdn + Flox	Syngenta	0.42 + 0.73 EC	Axial Star
Propoxycarbazone	Prcz	Bayer	70 WDG	Olympus
Propoxycarbazone&Mesosulfuron	Prcz&Mess	Bayer	6.75 + 4.5 WDG	Olympus Flex
Pyrasulfotole + bromoxynil +Safener + Fenoxaprop	Pyst + Brox + Renx	Bayer	1.32 EC	Wolverine
Pyroxasulfone	KIH - 485, Pxsf	Kumiai	85 WG	KIH - 485
Pyraflufen	pyff	Gowan	0.21 EC	ET/Vida
Pyroxsulam	Pxlm	Dow	7.5 WG 21.5 WDG	PowerFlex Team Mate
Pyroxsulam+Clopyralid+Fluroxypyr	Pxlm+Clpy+Flox	Dow	1.66 SE	Perfect Match
Pyroxsulam + Florasulam + Fluroxypyr	Pxlm + Flas + Flox	Dow	0.838L	Goldsky
Quinclorac	Quin	BASF	75 WP	Facet
Quizalofop-P	Qufp-P	DuPont, Gowan	0.88 EC	Assure II, Targa
Rimsulfuron + Mesotrione	Rims + Meso	Dupont	4.17 + 41.67 WDG	Instigate
Rimsulfuron + Mesotrione	Rims + Meso	DuPont	7.5 + 31.25 SG	Realm Q
Rimsulfuron + Thifensulfuron	Rims + Thif	DuPont	16.7 + 16.7 SG	Alluvex
Rimsulfuron + Thifensulfuron	Rims + Thif,	DuPont	75 DF	Basis
Rimsulfuron + Thifensulfuron	Rims + Thif	DuPont, Adama	18.4 + 4 SG	Resolve Q
Rimsulfuron	Rims	DuPont	25 DF	Matrix / Resolve
Saflufenacil	BAS 800 04, Saff	BASF	2.85 SC	Sharpen
Saflufenacil + dimethenamid	BAS 78102 H	BASF	5.57 EC	Integrity
Sethoxydim	Seth	BASF	1.5 EC	Poast
Simazine		Syngenta	4 L	Princep 4L
Sulfentrazone	Suen	DuPont/FMC	75 DF	Authority, Spartan, Payload
Sulfentrazone + Cloransulam		FMC	70 WDG	Authority First, Sonic
Sulfentrazone + Imazethapyr	Suen = Imep	FMC	3.33 + 0.67 L	Authority Assist
Sulfometuron	Sume	Bayair	75 DF	Oust



Sulfosulfuron	Sulf	Monsanto	75 WG	Maverick, Outrider
Tebuthiuron		Dow	20 WG	Spike
Tembotrione + isoxadifen safener	AE172747, Temb	Bayer	(2:1) 3.5 SL	Laudis
Thiencarbazone	Thez	Bayer	0.083 OD	Varro
Thifensulfuron+Fluroxypyr	Thif+Flox	DuPont	0.25+1.3 OD	Sentrallas
Thifensulfuron + Tribenuron	Thif + Trib	DuPont	50 + 25 DF	Several
Thifensulfuron + Tribenuron		Dupont	25 + 25 SP	Affinity Broad Spectrum
Thifensulfuron + Tribenuron		Dupont	40 + 10 SP	Affinity Tankmix
Thifensulfuron + Tribenuron + Fluroxypyr	Thif + Pinn + Flox	Arysta	4.5 + 1.5 + 25 EG	Supremacy
Thifensulfuron	Thif, Pinn ,Pncl	DuPont	75 DF	Several
Tolpyralate	Tolp	ISK	3.33 EC	
Topramezone		AmVac	2.8 SC	Impact
Tralkoxydim	Tral	Syngenta	40 DF	Achieve
Triallate	GWN 3040, Tria	Gowan	4EC	Far-Go
Tribenuron	Trib	DuPont	75 DF	Several
Triclopyr	Trep	Dow	4 EC	Garlon / Remedy
Trifluralin	Trif	Dow	4 EC, 10 G	Several
Triflusulfuron-methull	Tfsu	DuPont	50 DF	UpBeet
2,4-D	2,4-D	Various	Various EC, S, WSP	Several
2,4-DB	2,4-DB	Various		Several
2,4-D-dma + Dicamba – dma salt		Winfield	2.87 + 1 SL	Brash
2,4-D + Glyphosate		Dow	3.33 SL	Enlist Duo

<sup>a</sup>Abbreviations in the tables may consist of only the first one, two, or three listed letters when space was limited. Abbreviations of numbered compounds vary with available space, but usually use the first letters and numbers.

# Herbicide Spray Adjuvants

Fertilizer				Surfactant & AMS & AMS Replacement (WCA)			
AMS (Dry)	Various	\$0.35 lb	4 to 8.5 lb/A	Bronc Total	Wilbur-Ellis	\$30.00 gal	0.75 to 1% v/v
AMS (liquid)	Various	\$6.00 gal	2 to 4 qt/A	Transport	Precision Labs	\$34.00 gal	0.5 % v/v
28% UAN	Various	\$10.00 gal	2 to 4 qt/A				
28% UAN (bulk)	Various	\$3.00 gal	2 to 4 qt/A				

Surfactant			
Activator 90	Loveland	\$28.00 gal	0.25 to 0.5% v/v
APSA-80	Amway	\$32.00 gal	0.25 to 0.5% v/v
ChemSurf 90	United Suppl.	\$27.00 gal	0.25 to 0.5% v/v
Crnblt Premier 90	West Central	\$25.00 gal	0.25 to 0.5% v/v
Induce	Helena	\$25.00 gal	0.25 to 0.5% v/v
Liberate LeciTech	Loveland	\$32.00 gal	0.25 to 0.5% v/v
Pen-A-trate II	Precision Labs	\$30.00 gal	0.25 to 0.5% v/v
Prefer 90	West Central	\$28.00 gal	0.25 to 0.5% v/v
Preference	Winfield	\$28.00 gal	0.25 to 0.5% v/v
Protyx	Precision Labs	\$96.00 gal	0.125% v/v
Purity 100	Rosens	\$21.00 gal	0.25 to 0.5% v/v
R-11	Wilbur-Ellis	\$27.00 gal	0.25 to 0.5% v/v
Translate	United Suppl.	\$30.00 gal	0.25 to 0.5% v/v
Wet-Sol 99	Schaeffers	\$30.00 gal	0.25 to 0.5% v/v

**NIS Approved for use in Water**

Surfactants approved for use in bodies of water are:

Activate Plus	Agridex	BroncPlusDryEDT
Class Act NG	Induce	Level 7
Liberate L-Tech	Preference	R-11
Top Surf	X-77	

Surfactant & Silicone			
Freeway	Loveland	\$95.00 gal	0.75 to 2 pt/100 gal
Kinetic	Helena	\$121.00 gal	0.75 to 2 pt/100 gal
Silkin	Winfield	\$96.00 gal	0.75 to 2 pt/100 gal
Speed	Precision Labs	\$96.00 gal	0.25 to 2 pt/100 gal
Sur-Plus	United Suppl.	\$87.00 gal	0.5 to 2 pt/100 gal
Sylgard 309	Wilbur-Ellis	\$120.00 gal	0.75 to 2 pt/100 gal

Surfactant & AMS			
Bronc PlusDryEDT	Wilbur-Ellis	\$1.85 lb	10 lb/100 gal
Class Act NG	Winfield	\$11.00 gal	2.5% v/v
Deliver	Precision Labs	\$10.00 gal	2.5% v/v
Impressive DB	Rosens	\$0.90 lb	2.25 lb/A
Powerhouse	Rosens	\$7.25 gal	5 to 10 qt/100 gal
Surfate	Loveland	\$14.50 gal	1% v/v
Ultra Surf AMS	United Suppl.	\$10.00 gal	2.5% v/v

AMS Replacement / Water Conditioning Agent (WCA)			
Citron	Farm Direct	\$3.25 lb	2.2 lb/100 gal
Cut-Rate	Wilbur-Ellis	\$1.25 lb	4 lb/100 gal
Quest/Request	Helena	\$20.00 gal	0.5% v/v
Speedway	United Suppl.	\$32.00 gal	0.5% v/v

AMS & WCA (AMS Replacement)			
Alliance	Winfield	\$14.00 gal	1.25% v/v
Bronc Max	Wilbur-Ellis	\$24.00 gal	0.5% v/v
Choice W-Master	Loveland	\$20.00 gal	0.5% v/v
Enact	Rosens	\$18.00 gal	0.5% v/v
Sequester	Hefty	\$24.00 gal	0.25 to 0.5% v/v

Surfactant & AMS Replacement (WCA)			
Fastrack	United Suppl.	\$25.00 gal	0.75% v/v
Flame	Loveland	\$40.00 gal	0.5% v/v
N-Tense	West Central	\$25.00 gal	0.25 to 0.75% v/v
Transport Ultra	Precision Labs	\$25.00 gal	0.25 to 0.75% v/v

Surfactant & AMS & AMS Replacement (WCA)			
Bronc Total	Wilbur-Ellis	\$30.00 gal	0.75 to 1% v/v
Transport	Precision Labs	\$34.00 gal	0.5 % v/v

Acidic AMS Replacement (WCA)			
AMADS - Monocarbamide dihydrogen sulfate or urea + sulfuric acid			
Brimstone	Wilbur-Ellis	\$34.00 gal	3 pt/100 gal
CT-301	Cheltec	\$ - gal	4-8 fl oz/100 gal
ET-4000	MK Ag Service	\$31.00 gal	4 pt/100 gal
Gun Smoke	Loveland	\$35.00 gal	3 to 4 pt/100 gal
Hel-Fire	Helena	\$35.00 gal	3 to 4 pt/100 gal
Import	Precision Labs	\$34.00 gal	3 to 4 pt/100 gal
N Go/N Tank	Adjuvants Plus	\$34.00 gal	3 to 4 pt/100 gal

Basic pH Blend			
Linkage	West Central	\$19.00 gal	1% v/v
Mycrimix Plus	J.R. Simplot	\$19.00 gal	1% v/v
Quad 7	Loveland	\$15.50 gal	1% v/v

Petroleum Oil Concentrate			
Agri-Dex	Helena	\$16.00 gal	2 to 4 pt/A
Crop Oil Concen.	Helena	\$ - gal	2 to 4 pt/A
Herbimax	Loveland	\$12.00 gal	2 to 4 pt/A
Ortech	Rosens	\$7.50 gal	2 to 4 pt/A
Premium Crop Oil	United Suppl.	\$10.00 gal	2 to 4 pt/A
Premium COC	West Central	\$10.00 gal	2 to 4 pt/A
Prime Oil	Winfield	\$10.00 gal	2 to 4 pt/A
Protyx Aerial	Precision Labs	\$22.00 gal	0.5 pt/A
ROC Crop Oil	Wilbur-Ellis	\$12.00 gal	2 to 4 pt/A

Methylated Seed Oil (MSO)			
Adigor	Syngenta	w/Axial	9.6 fl oz/A
MSO Leci-Tech	Loveland	\$18.00 gal	1 to 2 pt/A
MSO Ultra	Precision Labs	\$20.00 gal	1 to 2 pt/A
Persist Ultra	J.R. Simplot	\$20.00 gal	1 to 2 pt/A
Premium MSO	Helena	\$18.00 gal	1 to 2 pt/A
Soy-Stik	West Central	\$18.00 gal	1 to 2 pt/A
Succeed	United Suppl.	\$17.00 gal	1 to 2 pt/A
Sundance II	Rosens	\$16.00 gal	1 to 2 pt/A
Superspread MSO	Wilbur-Ellis	\$21.00 gal	1 to 2 pt/A
Upland MSO	West Central	\$20.00 gal	1 to 2 pt/A

High Surfactant Oil Concentrate			
Between (PO)	United Suppl.	\$15.00 gal	1 to 2 pt/A
Destiny HC (MSO)	Winfield	\$34.00 gal	1 to 2 pt/A
Diplomat (PO)	Rosens	\$11.50 gal	1 to 2 pt/A
Exchange (PO)	Precision Labs	\$22.00 gal	1 to 2 pt/A
Hi-Load (PO)	Simplot	\$ - gal	1 to 2 pt/A
High Load (PO)	Wilbur-Ellis	\$20.00 gal	1 to 2 pt/A
Kixyt (MSO)	Precision Labs	\$32.50 gal	1 to 2 pt/A
Savvy (MSO)	West Central	\$29.00 gal	1 to 2 pt/A
Stake (PO)	West Central	\$16.50 gal	1 to 2 pt/A
Superb HC (PO)	Winfield	\$20.00 gal	1 to 2 pt/A

Oil Based Surfactant			
Trophy Gold	West Central	\$32.00 gal	0.5 pt/A

Base Oil, Surfactant & WCA			
Simplyx	Precision Labs	\$ - gal	0.5 pt/A

<b>MSO &amp; Basic pH Blend</b>			
Base	West Central	\$26.00 gal	1 to 2 pt/A
Entro	Various	\$26.00 gal	1 to 2 pt/A
Renegade	Wilbur-Ellis	\$23.00 gal	1 to 2 pt/A

<b>MSO &amp; AMS Replacement (WCA)</b>			
SuperCharge	Syngenta	w/Achieve	0.5% v/v

<b>MSO &amp; Organosilicone Surfactant</b>			
Air Force	United Suppl.	\$44.00 gal	4 to 6 fl oz/A
Dyne-Amic	Helena	\$51.50 gal	4 to 6 fl oz/A
Rivet	Winfield	\$44.00 gal	4 to 6 fl oz/A
Syl-tac	Wilbur-Ellis	\$59.00 gal	4 to 6 fl oz/A

<b>AMS &amp; Drift Retardant</b>			
AMS 20/10	United Suppl.	\$1.60 lb	10 lb/100 gal
Corral AMS Dry	Winfield	\$1.60 lb	10 to 17 lb/100 gal

<b>AMS &amp; Defoamer</b>			
Omnix LDF	Precision Labs	\$4.60 gal	2.5 to 5% v/v

<b>AMS &amp; Deposition &amp; Defoamer</b>			
AMS 2000	United Suppl.	\$1.25 lb	10 to 17 lb/100 gal
AmSol Plus	United Suppl.	\$6.00 gal	2.5 gal/100 gal
Arrow Four	Winfield	\$22.00 gal	2 to 4 qt/100 gal
Cornbelt Dri-Gard	West Central	\$1.50 lb	9 lb/100 gal
Cornbelt Gardian Pls	West Central	\$6.50 gal	2.5 gal/100 gal
Double Down	United Suppl.	\$8.00 gal	2.5 gal/100 gal

<b>AMS &amp; Deposition/Retention &amp; Defoamer</b>			
Array	Rosens	\$1.60 lb	9 to 14 lbs/100 gal
Border Xtra DF	Precision Labs	\$1.60 lb	18 lb/100 gal
Border Xtra 4L	Precision Labs	\$5.00 gal	5% v/v
Border Xtra 8L	Precision Labs	\$8.00 gal	2.5% v/v
Vector	Rosens	\$5.20 lb	2 lb/100 gal

<b>AMS &amp; Surfactant &amp; Deposition/Retention &amp; Defoamer</b>			
One-Ap XL	West Central	\$1.85 lb	9 to 15 lb/100 gal
BroncPlus DryEDT	Wilbur-Ellis	\$1.8560 lb	10 lb/100 gal
Bronc Triple	Wilbur-Ellis	\$34.00 gal	2 qt/100 gal
Pay Off Plus	United Suppl.	\$2.00 lb	10 to 13 lb/100 gal
Zenith	Rosens	\$1.25 lb	1.5 to 2.25 lb/A

<b>AMS &amp; AMS Replacement (WCA) &amp; Deposition</b>			
Bronc Max EDT	Wilbur-Ellis	\$36.00 gal	2 to 3 qt/100 gal
Cornbelt Gardian	West Central	\$22.00 gal	2 to 3 qt/100 gal
Transport Plus	Precision Labs	\$30.00 gal	2 to 4 qt/100 gal

<b>AMS &amp; AMS Replacement (WCA) &amp; Surfactant &amp; Deposition/Retention &amp; Defoamer</b>			
Veracity	West Central	\$23.00 gal	3 qt/100 gal

<b>AMS Replacement (WCA) &amp; Surfactant &amp; Deposition/Retention &amp; Defoamer</b>			
Weather-Gard	Loveland	\$50.00 gal	1 to 2 qt/100 gal
Complete Leci-Tec			

<b>AMS Replacement (WCA) &amp; Deposition/Retention &amp; Defoamer</b>			
Formula 1	United Suppl.	\$30.00 gal	1 to 3 qt/100 gal

<b>Deposition/Retention - Drift Retardants</b>			
Affect GC	United Suppl.	\$40.00 qt	1 to 2 fl oz/100 gal
Border EG 250	Precision Labs	\$1.00 oz	10 oz/100 gal
Corral Poly	Winfield	\$25.00 qt	4 to 12 fl oz/100 gal
Coverage G-20	Wilbur-Ellis	\$32.00 gal	2 to 4 fl oz/A
Direct	Precision Labs	\$25.00 qt	1 to 4 oz/100 gal
Drift Down	Rosens	\$15.00 qt	4 to 8 fl oz/100 gal
In-Place	Wilbur-Ellis	\$36.00 gal	4 fl oz/pt-lb herbicide
InterLock	Winfield	\$45.00 gal	4 to 6 fl oz/A
Placement	Winfield	\$38.00 gal	4 fl oz/pt-lb herbicide
Shroud II	United Suppl.	\$15.00 qt	10 to 12 oz/100 gal

<b>Deposition/Retention &amp; Surfactant &amp; Drift Retardant</b>			
Powerlock	Winfield	\$44.00 gal	5 to 8 oz/AI

<b>Drift Retardant &amp; Defoamer</b>			
Compadre Leci-Tc	Loveland	\$55.00 gal	1 pt/100 gal
Sedate	West Central	\$35.00 gal	1 pt/100 gal

<b>Acidifying Agents</b>			
Complete	Winfield	\$35.00 gal	1 to 3 pt/100 gal
Indicate 5	United Suppl.	\$48.00 gal	2 to 4 pt/100 gal
LI-700 Leci-Tech	Loveland	\$28.00 gal	2 to 4 pt/100 gal
New Balance	Precision Lab	\$32.00 gal	2 to 4 pt/100 gal
SuperSpread 7000	Wilbur-Ellis	\$32.00 gal	0.5 to 2 pt/100 gal
Tri-Fol	Wilbur-Ellis	\$30.00 gal	0.5 to 2 pt/100 gal

<b>Compatibility Agents</b>			
CompatibilityAgent	West Central	\$30.00 gal	1 to 3 pt/100 gal
Complete	Winfield	\$35.00 gal	1 to 3 pt/100 gal
Convert	Precision Labs	\$35.00 gal	1 to 6 pt/100 gal
Embrace	Wilbur-Ellis	\$36.00 gal	1 to 4 pt/100 gal
EZ-Mix	Loveland	\$30.00 gal	1 to 4 pt/100 gal
Mix-All	Rosens	\$35.00 gal	1 to 4 pt/100 gal
Compatibility Plus	United Suppl.	\$41.50 gal	1 to 2 pt/100 gal

<b>Spray Tank Cleaners</b>			
Tank Cleaner	Various	\$15-35 qt	1 to 2 qt/100 gal
Tank Cleaner	Various	\$5-7.00 lb	1 to 2 lb/100 gal

CLIMATIC DATA, 2016, Ada MN

Date	Precipitation								April		May		June		July		August		Sept	
	April	May	June	July	August	Sept	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
1	0.00	0.00	0.13	0.00	0.00	0.00	37	19	66	29	63	50	73	42	87	71	78	51		
2	0.00	0.00	0.00	0.00	0.00	0.00	28	15	72	40	75	44	80	53	86	59	77	55		
3	0.00	0.00	0.14	0.00	0.57	0.00	45	25	71	45	71	59	83	59	87	57	80	64		
4	0.00	0.00	0.01	0.36	0.34	1.36	40	20	70	31	72	57	86	62	78	57	78	64		
5	0.10	0.00	0.00	0.00	0.00	0.49	47	27	92	50	79	54	79	55	79	52	66	59		
6	0.00	0.00	0.09	0.00	0.00	0.00	39	32	80	43	68	46	82	56	80	50	72	53		
7	0.16	0.00	0.00	0.89	0.00	1.74	38	29	72	35	68	42	78	60	83	56	77	51		
8	0.00	0.00	0.00	0.00	0.00	0.01	32	14	77	38	81	45	77	59	81	58	76	52		
9	0.00	0.00	0.00	1.44	0.25	0.01	47	13	78	53	88	57	81	55	81	63	68	52		
10	0.00	0.01	0.02	0.00	0.64	0.00	43	26	61	53	89	62	83	64	81	61	71	45		
11	0.00	0.13	0.00	1.89	0.04	0.00	39	16	67	49	75	55	73	63	81	63	81	56		
12	0.00	0.00	0.00	0.01	0.00	0.00	50	13	54	41	81	62	80	60	81	59	66	49		
13	0.00	0.00	0.00	0.14	0.08	0.00	69	23	46	28	81	52	71	60	79	53	57	35		
14	0.00	0.00	0.22	0.12	0.00	0.00	72	44	54	23	71	58	65	54	82	54	67	33		
15	0.00	0.00	0.02	0.00	0.00	0.01	69	54	71	36	74	56	77	51	79	58	70	52		
16	0.22	0.00	0.00	0.00	0.03	0.44	68	40	65	33	84	51	77	53	81	56	70	57		
17	0.02	0.00	0.44	0.00	0.00	0.00	52	39	69	32	83	66	80	62	86	56	72	47		
18	0.03	0.00	0.07	0.00	0.19	0.00	53	41	75	38	80	57	84	53	79	63	73	53		
19	0.00	0.00	0.00	0.00	0.00	0.00	54	46	81	46	89	63	88	62	77	51	76	47		
20	0.00	0.00	0.00	0.80	0.00	0.00	66	44	78	50	77	56	86	64	72	47	69	47		
21	0.00	0.00	0.00	0.00	0.00	0.00	55	31	83	44	81	53	88	63	78	42	74	47		
22	0.00	0.25	0.00	0.00	0.00	0.00	63	23	85	57	74	56	89	65	84	60	68	46		
23	0.01	0.12	0.00	0.01	0.00	0.26	65	40	82	57	81	49	83	68	89	67	67	55		
24	0.44	0.02	0.00	0.00	0.01	0.04	53	42	81	55	86	56	82	61	78	54	78	61		
25	0.63	0.31	0.00	0.00	0.00	0.01	46	39	70	57	89	62	89	54	72	53	68	51		
26	0.00	0.24	0.00	0.43	0.00	0.00	53	36	75	53	81	58	87	63	78	46	64	39		
27	0.00	0.12	0.00	0.08	3.50	0.00	58	35	73	52	70	49	80	63	66	56	59	37		
28	0.00	0.06	0.00	0.00	1.15	0.00	61	39	68	55	79	41	82	56	83	55	64	37		
29	0.00	0.01	1.43	0.00	0.00	0.00	65	33	75	53	85	50	80	49	79	54	67	41		
30	0.00	0.51	0.00	0.00	0.00	0.00	63	34	86	49	65	47	82	62	78	49	71	46		
31		0.22		0.00	0.00				69	52			85	60	76	49				
Total/Avg	1.61	2.00	2.57	6.17	6.80	4.37	52	31	72	44	78	54	81	58	80	56	71	49		

CLIMATIC DATA, 2016, Carrington ND

Date	Precipitation												April		May		June		July		August		Sept	
	April	May	June	July	August	Sept	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min				
1	0.00	0.00	0.02	0.00	0.01	0.00	42	17	63	31	58	42	73	44	86	63	83	56						
2	0.00	0.00	0.01	0.00	0.01	0.00	49	18	65	41	76	42	76	58	86	55	78	60						
3	0.00	0.00	0.12	0.07	0.00	0.00	48	26	69	36	73	58	77	56	91	62	81	61						
4	0.00	0.00	0.01	0.00	0.00	0.45	43	22	77	31	75	56	90	60	77	52	69	56						
5	0.01	0.00	0.00	0.01	0.00	0.07	58	30	88	55	79	55	80	54	79	48	64	55						
6	0.09	0.00	0.00	0.04	0.00	0.00	39	31	73	43	68	47	81	53	85	52	68	50						
7	0.00	0.00	0.00	0.00	0.00	0.54	45	27	68	35	72	42	76	55	85	60	64	47						
8	0.00	0.00	0.00	0.00	0.00	0.09	34	19	75	41	80	51	78	51	85	60	72	47						
9	0.00	0.01	0.00	1.49	0.20	0.00	58	19	73	46	87	55	82	54	81	56	66	47						
10	0.00	0.18	0.18	0.93	2.05	0.00	40	24	62	44	87	61	83	61	75	58	70	46						
11	0.00	0.00	0.06	0.42	0.00	0.00	39	18	58	41	72	57	76	59	82	60	85	51						
12	0.00	0.00	0.00	0.00	0.00	0.00	51	22	50	39	80	57	79E	46	78	57	63	42						
13	0.00	0.00	0.00	0.07	0.04	0.00	66	22	45	30	81	53	71E	59	77	54	56	37						
14	0.00	0.00	0.51	0.01	0.00	0.00	67	43	55	25	67	54	68	56	83	54	67	36						
15	0.04	0.00	0.01	0.00	0.00	0.17	69	37	69	32	76	55	77	50	83	59	63	48						
16	0.46	0.00	0.00	0.10	0.00	0.00	37	33	65	36	81	59	70	57	84	58	64	47						
17	0.38	0.00	0.68	0.04	0.00	0.00	40	33	71	33	79	57	80	56	87	58	77	38						
18	0.32	0.00	0.00	0.00	1.22	0.00	44	36	75	42	77	56	85	55	78	55	80	51						
19	0.13	0.00	0.00	0.00	0.00	0.00	50	42	77	47	85	59	90	64	69	51	75	46						
20	0.00	0.00	0.00	0.04	0.00	0.00	67	44	71	49	75	55	93	65	70	47	75	48						
21	0.00	0.00	0.07	0.32	0.00	0.00	50	33	77	47	81	51	90	63	80	44	71	50						
22	0.00	0.23	0.09	0.00	0.00	0.00	60	27	77	56	66	52	88	64	85	54	64	45						
23	0.00	0.10	0.00	0.78	0.00	0.43	64	41	80	54	75	46	81	63	80	54	62	52						
24	0.77	0.01	0.00	0.00	0.00	0.00	45	40	78	49	87	54	80	60	72	52	77	56						
25	0.52	0.34	0.00	0.00	0.00	0.03	40	36	63	55	78	62	90	58	70	53	62	47						
26	0.01	0.02	0.00	0.20	0.00	0.00	42	35	72	50	75	60	85	63	73	49	66	41						
27	0.00	0.01	0.00	0.00	0.00	0.00	52	40	71	45	70	51	76	57	78	48	69	37						
28	0.00	0.00	0.00	0.00	0.00	0.00	56	37	70	54	80	48	78	52	85	57	61	32						
29	0.00	0.00	0.00	0.00	0.13	0.00	61	33	77	53	83	54	81	53	78	51	68	37						
30	0.00	0.23	0.00	0.00	0.00	0.00	60	35	80	50	65	47	83	62	79	47	71	45						
31		0.01		0.00	0.00				65	53			87	62	79	55								
Total/Avg	2.73	1.14	1.76	4.52	3.66	1.78	51	31	70	43	76	53	82	57	80	54	70	47						

CLIMATIC DATA, 2016, Fargo, ND

Date	Precipitation							April		May		June		July		August		Sept	
	April	May	June	July	August	Sept	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
1	0.00	0.00	0.00	0.00	0.00	0.00	39	22	65	31	63	49	75	44	88	71	81	61	
2	0.00	0.00	0.00	0.00	0.00	0.00	32	19	71	43	77	44	80	62	87	63	79	59	
3	0.00	0.00	0.32	0.00	0.02	0.00	46	26	70	46	71	59	82	62	89	66	83	64	
4	0.00	0.00	0.07	0.27	0.03	0.03	41	20	71	35	74	57	89	64	79	60	83	63	
5	0.01	0.00	0.00	0.00	0.00	0.14	52	33	91	50	80	54	80	60	79	53	68	59	
6	0.00	0.00	0.17	0.00	0.00	0.00	41	32	83	46	69	51	82	59	81	54	74	59	
7	0.24	0.00	0.00	0.36	0.00	1.76	38	31	69	38	71	44	78	62	84	63	76	55	
8	0.00	0.00	0.00	0.01	0.00	0.00	31	20	76	43	82	51	79	59	83	63	77	54	
9	0.00	0.00	0.00	1.44	0.22	0.00	49	19	71	57	88	63	82	59	85	65	70	52	
10	0.00	0.09	0.16	0.05	0.56	0.00	44	30	62	54	89	66	83	65	79	62	72	47	
11	0.00	0.00	0.00	2.06	0.08	0.00	39	23	68	51	78	61	71	62	81	68	83	55	
12	0.00	0.00	0.00	0.00	0.00	0.00	48	23	55	42	83	66	82	61	80	62	67	50	
13	0.00	0.00	0.00	0.02	0.38	0.00	67	22	45	32	81	56	74	63	80	57	59	43	
14	0.00	0.00	0.21	0.20	0.00	0.00	72	48	53	27	69	62	64	58	83	58	68	39	
15	0.00	0.00	0.02	0.00	0.00	0.00	69	54	70	38	77	61	77	53	77	64	71	58	
16	0.16	0.00	0.00	0.00	0.00	0.67	67	40	65	35	83	57	77	59	83	57	71	58	
17	0.01	0.00	0.00	0.00	0.00	0.00	52	40	70	35	84	70	81	64	88	62	75	49	
18	0.13	0.00	0.94	0.00	0.23	0.00	55	41	74	45	80	63	86	58	79	65	74	56	
19	0.29	0.00	0.00	0.00	0.00	0.00	52	46	79	52	89	67	88	68	76	55	77	51	
20	0.00	0.00	0.00	0.01	0.00	0.20	65	48	74	56	76	58	89	69	70	52	69	54	
21	0.00	0.00	0.00	0.03	0.00	0.00	54	35	81	56	83	54	89	67	78	46	74	50	
22	0.00	0.00	0.14	0.00	0.00	0.00	63	28	83	55	78	58	92	64	84	60	69	49	
23	0.00	0.01	0.00	0.05	0.00	0.15	62	48	83	63	80	55	84	69	90	68	67	59	
24	0.81	0.00	0.00	0.00	0.00	0.19	58	43	83	59	85	61	82	62	76	56	79	64	
25	0.66	0.68	0.00	0.00	0.00	0.00	45	40	69	56	86	66	91	60	70	55	68	53	
26	0.00	0.00	0.00	0.66	0.00	0.00	49	37	76	52	81	62	86	66	77	52	67	43	
27	0.00	0.33	0.00	0.04	0.37	0.00	56	39	75	56	71	53	78	63	74	57	63	38	
28	0.00	0.00	0.00	0.00	0.00	0.00	59	43	70	59	79	47	80	61	88	60	66	40	
29	0.00	0.00	0.70	0.00	0.00	0.00	64	37	77	56	85	55	81	59	81	56	67	42	
30	0.00	0.17	0.00	0.00	0.00	0.00	62	42	85	56	66	56	82	65	80	50	72	49	
31		0.01		0.00	0.00	0.00			70	54			85	65	78	52			
<b>Total/Avg</b>	<b>2.31</b>	<b>1.29</b>	<b>2.73</b>	<b>5.20</b>	<b>1.89</b>	<b>3.14</b>	<b>52</b>	<b>34</b>	<b>72</b>	<b>48</b>	<b>79</b>	<b>58</b>	<b>82</b>	<b>62</b>	<b>81</b>	<b>59</b>	<b>72</b>	<b>52</b>	

CLIMATIC DATA, Grand Forks 2016, ND

Date	Precipitation												April		May		June		July		August		Sept	
	April	May	June	July	August	Sept	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min				
1	0.00	0.00	0.24	0.00	0.02	0.00	37	21	67	32	59	49	73	39	87	67	82	53						
2	0.00	0.00	0.00	0.00	0.00	0.00	30	16	73	41	74	43	75	47	89	58	80	59						
3	0.00	0.00	0.84	0.00	0.94	0.00	38	24	69	46	66	58	82	57	87	59	85	63						
4	0.00	0.00	0.01	0.04	0.01	4.02	38	18	72	37	72	56	89	59	79	59	70	58						
5	0.02	0.00	0.16	0.00	0.00	0.05	45	27	94	50	78	56	79	57	80	55	66	57						
6	0.00	0.00	0.04	0.00	0.00	0.00	39	33	74	44	68	51	81	55	80	53	70	54						
7	0.04	0.00	0.00	0.39	0.00	0.66	38	28	73	38	69	46	75	60	85	56	71	48						
8	0.00	0.00	0.00	0.00	0.00	0.01	31	19	79	42	80	47	79	59	82	59	75	55						
9	0.00	0.00	0.00	0.61	0.00	0.00	47	17	80	46	89	53	80	53	82	62	68	52						
10	0.00	0.00	0.09	0.00	1.55	0.00	41	27	62	53	87	66	82	62	80	57	71	48						
11	0.00	0.00	0.00	1.01	0.14	0.00	36	19	70	51	73	57	74	62	80	65	82	53						
12	0.00	0.00	0.00	0.06	0.00	0.00	49	18	53	44	81	58	79	60	80	59	64	49						
13	0.00	0.01	0.00	0.23	0.00	0.00	68	22	45	32	81	53	71	59	78	56	57	36						
14	0.00	0.00	0.90	0.12	0.00	0.00	65	39	54	27	71	56	69	55	84	55	69	36						
15	0.04	0.00	0.00	0.03	0.00	0.04	68	41	70	40	77	60	78	53	81	54	69	49						
16	0.41	0.03	0.00	0.12	0.00	0.00	50	38	66	40	83	53	75	55	85	63	67	57						
17	0.00	0.00	0.68	0.02	0.00	0.00	46	38	71	34	81	64	80	60	89	57	75	48						
18	0.05	0.00	0.12	0.00	0.23	0.00	51	38	77	41	77	57	80	56	82	60	80	55						
19	0.01	0.03	0.00	1.74	0.00	0.00	59	43	82	51	86	63	86	62	76	55	75	48						
20	0.00	0.00	0.00	0.24	0.00	0.00	68	47	77	51	76	57	83	64	71	50	75	50						
21	0.00	0.00	0.00	0.00	0.00	0.00	53	33	85	44	78	53	87	62	79	44	73	50						
22	0.00	0.39	0.00	0.00	0.00	0.00	62	28	83	53	66	54	86	64	86	56	68	49						
23	0.00	0.53	0.00	0.45	0.15	0.38	67	41	81	60	80	49	75	65	90	66	65	54						
24	0.50	0.15	0.00	0.00	0.00	0.03	49	41	79	56	83	51	80	61	77	57	77	60						
25	0.29	0.91	0.00	0.00	0.00	0.06	44	37	68	56	82	62	88	58	72	53	69	52						
26	0.00	0.01	0.00	0.08	0.00	0.00	55	37	72	57	76	57	87	66	81	44	65	45						
27	0.00	0.00	0.00	0.01	0.58	0.00	58	35	75	55	71	50	78	62	71	56	61	43						
28	0.00	0.00	0.00	0.00	0.00	0.00	60	39	71	60	79	45	79	58	84	56	63	40						
29	0.00	0.00	0.00	0.00	0.00	0.00	66	35	76	54	85	52	80	51	83	54	68	38						
30	0.00	1.04	0.00	0.01	0.00	0.00	64	37	83	50	65	45	82	59	81	50	71	43						
31		0.68		0.00	0.00				67	52			84	59	79	51								
Total/Avg	1.36	3.78	3.08	5.16	3.62	5.25	51	31	73	46	76	54	80	58	81	56	71	50						

CLIMATIC DATA, Hettinger 2016, ND

Date	Precipitation									April		May		June		July		August		Sept	
	April	May	June	July	August	Sept	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	
1	0.00	0.00	0.00	0.00	0.00	0.00	52	18	63	28	68	45	78	52	90	63	88	63			
2	0.00	0.00	0.00	0.00	0.00	0.00	72	25	71	35	81	48	84	57	89E	55E	87	63			
3	0.00	0.00	0.10	0.00	0.02	0.00	69	31	77	34	77	51	94	60	98	62	86	56			
4	0.00	0.00	0.00	0.00	0.00	0.21	65	24	79	37	78	48	94	58	82	52	68	53			
5	0.01	0.00	0.00	0.00	0.00	0.00	59	31	85	52	82	50	84	53	86	43	66	48			
6	0.00	0.00	0.00	0.69	0.00	0.00	58	32	74	50	74	44	85	46	89	58	72	46			
7	0.00	0.00	0.00	0.00	0.00	0.29	58	23	70	37	81	50	78	54	85	59	71	47			
8	0.00	0.00	0.00	0.00	0.00	0.00	54	23	70	36	85	52	87	46	92	63	76	45			
9	0.00	0.17	0.00	0.00	0.69	0.00	81	28	59	44	98	60	97	62	92	51	67	44			
10	0.00	0.06	0.00	0.26	0.00	0.00	48	17	54	41	90	59	89	60	90	62	79	39			
11	0.00	0.01	0.33	0.01	0.00	0.00	50	8	53	37	96	62	80	59	87	59	89	43			
12	0.00	0.00	0.00	0.00	0.00	0.00	76	26	64	32	79	57	82	54	85	52	58	46			
13	0.00	0.12	0.04	0.00	0.00	0.00	76	30	47	29	83	55	82	51	83	52	53	42			
14	0.08	0.00	0.00	0.30	0.00	0.00	71	36	59	24	76	58	77	51	91	49	75	42			
15	0.32	0.00	0.00	0.01	0.00	0.24	61	38	65	26	83	49	81	46	93	52	71	53			
16	0.21	0.00	0.00	0.01	0.00	0.08	38	32	70	31	93	59	83	57	89	51	71	48			
17	0.08	0.00	0.00	0.00	0.00	0.00	37	32	69	35	84	60	83	55	95	63	85	45			
18	1.36	0.00	0.00	0.00	0.01	0.00	41	33	73	44	90	59	91	59	75	53	82	54			
19	0.08	0.00	0.00	0.00	0.91	0.00	58	40	79	42	88	62	98	67	60	47	78	47			
20	0.00	0.00	0.00	0.00	0.00	0.00	67	32	74	50	83	48	102	68	73	42	78	53			
21	0.00	0.00	0.00	0.00	0.00	0.00	64	39	70	51	91	53	96	69	86	47	74	54			
22	0.00	0.00	0.00	0.00	0.00	0.00	74	36	81	56	77	53	96	66	97	52	57	49			
23	0.00	0.00	0.00	0.00	0.00	1.23	73	44	76	41	84	42	88	56	81	52	61	51			
24	0.25	0.00	0.01	0.00	0.00	0.25	51	39	76	36	96	61	89	51	76	48	69	49			
25	0.22	0.00	0.00	0.00	0.00	0.03	39	33	68	42	80	54	99	62	68	44	64	42			
26	0.12	0.00	0.00	0.00	0.08	0.00	40	33	71	39	85	51	86	63	73	44	69	38			
27	0.83	0.00	0.00	0.08	0.00	0.00	37	32	71	36	82	50	75	53	81	42	81	39			
28	0.18	0.10	0.00	0.00	0.00	0.00	47	33	77	40	86	57	73	56	96	51	77	45			
29	0.00	0.01	0.38	0.00	0.00	0.00	57	37	79	39	87	59	85	52	83	60	78	42			
30	0.00	0.46	0.00	0.00	0.00	0.00	58	32	70	46	77	54	93	56	84	57	72	54			
31		0.12		0.14					55	43			96	61	89	55					
<b>Total/Avg</b>	<b>3.74</b>	<b>1.05</b>	<b>0.86</b>	<b>1.50</b>	<b>1.71</b>	<b>2.33</b>	<b>58</b>	<b>31</b>	<b>69</b>	<b>39</b>	<b>84</b>	<b>54</b>	<b>87</b>	<b>57</b>	<b>85</b>	<b>52</b>	<b>73</b>	<b>48</b>			



CLIMATIC DATA, 2016, Hillsboro ND

Date	Precipitation							April		May		June		July		August		Sept	
	April	May	June	July	August	Sept	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
1	0.00	0.00	0.00	0.00	0.00	0.00	38	20	67	30	62	48	74	39	87	69	80	52	
2	0.00	0.00	0.00	0.00	0.00	0.00	31	16	72	38	76	44	78	55	87	58	79	58	
3	0.00	0.00	0.12	0.00	0.11	0.00	44	25	70	44	69	60	83	58	89	59	83	63	
4	0.00	0.00	0.00	0.00	0.01	0.12	40	20	72	35	73	56	88	57	78	57	74	61	
5	0.14	0.00	0.03	0.00	0.00	0.11	49	27	92	48	82	55	81	54	80	51	66	57	
6	0.00	0.00	0.05	0.00	0.00	0.00	39	33	79	41	70	51	82	57	81	50	73	52	
7	0.08	0.00	0.00	0.43	0.00	1.34	38	29	71	37	71	44	79	60	84	54	75	49	
8	0.00	0.00	0.00	0.00	0.12	0.01	31	14	76	39	81	47	79	58	82	58	77	50	
9	0.00	0.00	0.00	1.13	0.00	0.00	48	14	75	47	88	59	82	54	81	62	71	50	
10	0.00	0.02	0.12	0.00	0.51	0.00	41	28	61	54	91	62	84	64	79	58	73	44	
11	0.00	0.00	0.11	1.45	0.08	0.00	38	18	69	49	76	60	73	61	81	65	82	50	
12	0.00	0.00	0.00	0.01	0.00	0.00	50	15	56	40	81	63	80	59	80	58	67	48	
13	0.00	0.00	0.00	0.10	0.05	0.00	69	21	45	31	83	54	72	59	79	54	57	35	
14	0.00	0.00	0.62	0.11	0.00	0.00	70	42	54	26	70	60	67	55	83	53	68	32	
15	0.01	0.00	0.00	0.00	0.00	0.00	68	48	72	34	76	58	78	52	80	59	70	51	
16	0.23	0.00	0.00	0.00	1.09	0.60	55	39	66	37	83	53	77	56	83	56	68	54	
17	0.02	0.00	0.18	0.00	0.00	0.00	48	39	70	32	83	64	81	60	87	56	75	46	
18	0.03	0.00	0.10	0.00	0.17	0.00	51	39	75	40	80	58	85	55	81	61	76	51	
19	0.06	0.00	0.00	0.00	0.00	0.00	53	45	80	48	89	65	88	62	76	52	78	47	
20	0.00	0.00	0.00	0.70	0.00	0.00	67	44	73	52	77	55	87	67	72	49	73	45	
21	0.00	0.00	0.00	0.00	0.00	0.00	52	35	83	48	81	52	89	65	77	44	74	48	
22	0.00	0.48	0.00	0.00	0.00	0.03	63	27	82	52	73	55	87	67	83	54	69	47	
23	0.01	0.52	0.00	0.01	0.00	0.56	63	42	81	61	80	50	83	68	89	67	66	54	
24	0.42	0.02	0.00	0.00	0.00	0.05	52	42	80	55	85	56	81	59	76	53	79	61	
25	0.47	0.92	0.00	0.00	0.00	0.02	45	39	69	58	85	60	89	56	72	51	67	51	
26	0.00	0.17	0.00	0.09	0.00	0.00	51	36	74	53	79	59	86	63	78	44	67	39	
27	0.00	0.15	0.00	0.00	3.02	0.00	57	36	72	54	70	49	79	62	70	55	62	36	
28	0.00	0.01	0.00	0.00	0.01	0.00	58	39	70	57	79	44	80	55	85	56	64E	37E	
29	0.00	0.00	0.00	0.00	0.00	0.00	65	33	78	55	86	50	81	50	82	54	67	38	
30	0.00	0.60	0.00	0.00	0.00	0.00	63	35	85	52	65	49	83	64	80	48	71	41	
31		0.26		0.00	0.00			68	51				85	59	77	51			
Total/Avg	1.47	3.15	1.33	4.03	5.17	2.84	51	31	72	45	78	55	81	58	81	55	69	40	

CLIMATIC DATA, 2016, Inkster ND

Date	Precipitation							April		May		June		July		August		Sept	
	April	May	June	July	August	Sept	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
1	0.01	0.00	0.36	0.00	0.01	0.00	39	18	67	33	60	49	73	43	81	63	82	50	
2	0.00	0.00	0.00	0.07	0.00	0.00	34	14	72	45	76	46	75	49	84	58	80	61	
3	0.00	0.00	0.04	0.00	0.28	0.00	35	22	69	42	68	58	81	60	88	58	84	64	
4	0.00	0.00	0.00	0.04	0.00	2.81	38	15	74	35	74	57	90	64	77	59	72	57	
5	0.01	0.00	0.22	0.01	0.00	0.03	46	26	93	59	81	55	80	60	80	54	69	57	
6	0.03	0.00	0.01	0.00	0.00	0.00	40	32	72	48	67	52	79	57	80	54	71	51	
7	0.16	0.00	0.00	0.64	0.00	0.60	39	25	74	39	70	46	71	61	85	55	69	44	
8	0.00	0.00	0.00	0.00	0.00	0.01	31	15	78	45	79	49	80	57	83	62	73	52	
9	0.00	0.00	0.00	0.95	0.00	0.00	50	16	79	46	87	55	82	57	77	62	65	50	
10	0.00	0.01	0.62	0.00	0.61	0.00	40	26	63	50	87	64	84	62	81	56	71	49	
11	0.00	0.00	0.00	0.81	0.13	0.00	38	19	66	46	72	56	78	62	80	63	84	53	
12	0.00	0.00	0.22	0.01	0.00	0.00	50	18	55	42	80	57	76	60	78	58	64	46	
13	0.00	0.00	0.00	0.15	0.00	0.00	66	22	46	30	82	54	69	58	77	56	57	35	
14	0.01	0.00	0.83	0.25	0.00	0.00	67	41	57	24	70	59	70	57	83	57	68	36	
15	0.03	0.00	0.27	0.08	0.07	0.00	67	38	71	36	79	60	77	54	83	58	67	48	
16	0.67	0.06	0.00	0.27	0.48	0.02	41	36	67	39	83	57	77	55	85	63	69	53	
17	0.02	0.00	2.58	0.12	0.00	0.00	43	36	71	34	84	58	80	59	88	62	74	44	
18	0.58	0.00	0.00	0.00	0.63	0.00	48	36	77	47	78	57	82	58	81	59	81	56	
19	0.00	0.00	0.00	0.17	0.00	0.00	61	40	81	50	87	64	88	60	75	55	74	50	
20	0.00	0.00	0.00	0.88	0.00	0.00	70	47	75	47	78	58	86	66	71	48	74	50	
21	0.00	0.00	0.00	0.00	0.00	0.17	55	33	83	43	80	55	86	62	80	46	68	50	
22	0.00	1.30	0.31	0.00	0.00	0.00	60	28	82	54	63	52	85	66	85	61	65	46	
23	0.00	0.36	0.00	0.68	0.00	1.88	63	40	81	58	80	52	75	64	85	60	64	50	
24	0.27	0.15	0.00	0.00	0.00	0.13	49	40	79	56	85	55	79	62	76	55	76	56	
25	0.45	1.21	0.00	0.00	0.00	0.10	42	37	65	57	82	64	87	60	72	51	68	52	
26	0.00	0.00	0.02	0.27	0.00	0.00	57	37	70	53	76	56	85	62	77	50	66	40	
27	0.00	0.00	0.00	0.00	0.00	0.00	61	34	77	50	71	53	77	60	75	50	64	41	
28	0.00	0.04	0.00	0.00	0.00	0.00	58	37	75	59	80	51	75	54	83	57	62E	40E	
29	0.00	0.00	0.00	0.00	0.00	0.00	65	34	78	56	86	58	82	51	80	53	65	34	
30	0.00	0.38	0.00	0.07	0.00	0.00	64	35	81	54	68	46	82	61	83	49	70	37	
31		0.31		0.00	0.00			69	53				85	62	77	48			
<b>Total/Avg</b>	<b>2.24</b>	<b>3.82</b>	<b>5.48</b>	<b>5.47</b>	<b>2.21</b>	<b>5.75</b>	<b>51</b>	<b>30</b>	<b>72</b>	<b>46</b>	<b>77</b>	<b>55</b>	<b>80</b>	<b>59</b>	<b>80</b>	<b>56</b>	<b>68</b>	<b>36</b>	

CLIMATIC DATA, 2016, Langdon ND

Date	Precipitation					April		May		June		July		August		Sept	
	April	May	June	July	August	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
1	0.00	0.00	0.02	0.00	0.45	36	14	66	32	53	44	70	39	77	60	79	55
2	0.00	0.00	0.00	0.05	0.00	32	11	71	43	72	42	70	56	80	56	77	60
3	0.00	0.00	0.19	0.00	1.14	26	15	64	40	67	54	74	61	84	56	79	63
4	0.00	0.00	0.00	0.00	0.00	35	12	74	31	73	52	86	61	70	54	69	55
5	0.08	0.00	0.23	0.21	0.00	36	26	91	52	76	51	74	54	73	50	67	53
6	0.02	0.00	0.00	0.00	0.00	38	28	67	46	63	49	74	53	77	51	66	50
7	0.09	0.00	0.00	0.65	0.00	37	20	68	35	68	41	62	57	77	57	66	49
8	0.00	0.00	0.00	0.00	0.00	27	13	76	40	79	50	74	52	78	61	70	48
9	0.00	0.00	0.00	1.19	0.00	46	17	75	54	85	59	77	56	71	56	65	47
10	0.00	0.11	0.92	0.01	0.21	35	19	58	47	83	61	78	60	78	53	68	45
11	0.00	0.00	0.00	1.65	0.01	33	14	57	40	67	52	77	59	78	59	80	50
12	0.00	0.01	1.33	0.11	0.00	49	19	45	35	66	53	70	58	72	55	60	40
13	0.00	0.01	0.00	0.26	0.00	62	24	42	28	78	50	63	55	74	53	53	35
14	0.12	0.00	0.04	0.22	0.00	64	41	53	22	69	59	69	54	80	51	64	33
15	0.24	0.00	0.05	0.03	0.35	58	34	65	34	76	58	72	54	81	59	67	47
16	0.60	0.10	0.00	0.85	0.01	35	32	63	41	75	55	71	55	81	57	60	49
17	0.54	0.00	0.11	0.42	0.00	38	33	70	34	79	59	77	56	85	54	71	41
18	0.11	0.00	0.00	0.01	0.67	48	33	75	45	76	57	75	54	77	56	78	52
19	0.00	0.00	0.13	0.12	0.00	57	36	79	48	83	59	82	64	69	51	69	47
20	0.00	0.00	0.00	0.73	0.00	66	45	73	54	73	53	87	65	67	47	73	41
21	0.00	0.00	0.00	0.01	0.00	50	29	80	50	74	49	82	62	79	44	59	47
22	0.00	0.38	0.56	0.00	0.00	50	27	76	58	60	51	83	62	86	58	62	40
23	0.00	0.26	0.00	0.89	0.01	51	34	77	53	74	49	76	63	84	58	63	48
24	0.00	0.00	0.00	0.00	0.00	45	35	77	54	80	57	76	57	69	51	69	55
25	0.00	1.06	0.35	0.00	0.00	44	34	68	54	75	57	84	56	69	48	63	47
26	0.00	0.00	0.00	0.00	0.00	54	32	61	50	67	53	81	60	74	45	61	41
27	0.00	0.00	0.00	0.00	0.00	55	34	70	50	69	49	72	55	75	51	62	37
28	0.00	0.01	0.00	0.00	0.00	57	32	68	54	76	49	73	50	82	57	62	38
29	0.00	0.03	0.04	0.00	0.00	60	30	72	53	81	55	77	48	71	50	65	45
30	0.00	0.03	0.00	0.00	0.00	60	30	80	50	64	45	79	61	78	46	68	47
31		1.05		0.00	0.00			63	49			81	62	73	48		
Total/Avg	1.80	3.05	3.97	7.41	2.85	46	27	69	44	73	52	76	57	76	53	67	47

CLIMATIC DATA, 2016, Minnot ND

Date	Precipitation						April		May		June		July		August		Sept				
	April	May	June	July	August	Sept	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min			
1	0.00	0.00	0.02	0.02	0.00	0.00	50	20	66	33	64	45	64	64	45	64	45	83	59	88	54
2	0.00	0.00	0.08	0.00	0.00	0.00	73	20	69	46	77	47	69	69	43	85	55	85	55	80	65
3	0.00	0.00	0.00	0.47	0.00	0.00	52E	22E	74	46	75	55	79	54	93	62	93	62	76	60	60
4	0.00	0.00	0.00	0.00	0.00	0.09	54E	21E	84	39	77	54	76	59	77	55	77	55	61	54	54
5	0.09	0.00	0.00	0.00	0.00	0.01	62E	32E	91	58	77	56	84	59	82	50	82	50	60	50	50
6	0.15	0.00	0.00	0.30	0.00	0.00	51	29	71	49	67	50	77	56	86	51	86	51	69	49	49
7	0.00	0.00	0.00	0.01	0.00	0.51	43	27	71	38	76	46	77	53	87	61	87	61	63	46	46
8	0.00	0.00	0.00	0.00	0.00	0.01	38	19	76	49	81	53	73	53	89	64	89	64	69	46	46
9	0.00	0.00	0.79	0.00	0.01	0.09	68	24	76	46	91	58	78	49	79	56	79	56	67	47	47
10	0.00	0.10	0.28	0.00	0.05	0.00	37	23	58	41	82	60	85	57	82	56	82	56	72	42	42
11	0.00	0.00	0.38	0.20	0.00	0.00	41	16	52	39	68	55	85	63	84	58	84	58	85	49	49
12	0.00	0.00	0.24	0.00	0.00	0.06	60	24	46	36	71	55	79	60	81	54	81	54	58	45	45
13	0.00	0.00	0.02	0.04	0.00	0.00	71	33	51	31	77	52	72	57	81	55	81	55	56	34	34
14	0.06	0.00	0.02	0.06	0.00	0.00	64	45	61	36	69	53	74	59	87	54	87	54	71	37	37
15	0.40	0.00	0.00	0.00	0.01	1.15	54	34	69	35	77	49	72	55	89	57	89	57	61	48	48
16	0.21	0.00	0.00	0.00	0.00	0.12	35	30	67	35	86	59	77	53	87	56	87	56	66	44	44
17	0.47	0.00	0.01	0.90	0.00	0.00	37	31	72	43	79	59	65	52	93	60	93	60	81	43	43
18	0.09	0.00	0.00	0.04	1.13	0.00	47	35	77	49	79	57	78	56	78	56	78	56	78	50	50
19	0.00	0.00	0.26	0.00	0.00	0.00	49	40	81	53	78	57	81	56	69	54	69	54	72	47	47
20	0.00	0.00	0.00	0.00	0.00	0.00	69	37	76	51	75	52	89	64	71	50	71	50	73	43	43
21	0.00	0.00	0.25	0.00	0.00	0.10	53	32	79	46	79	54	93	67	85	46	85	46	61	51	51
22	0.00	0.00	0.01	0.00	0.00	0.00	63	28	81	59	64	52	88	62	96	62	96	62	64	48	48
23	0.00	0.02	0.00	0.00	0.00	0.74	63	37	77	48	74	50	85	58	80	58	80	58	58	48	48
24	0.99	0.00	0.06	1.30	0.00	0.17	44	37	75	43	85	52	81	62	70	52	70	52	78	55	55
25	0.30	0.46	0.03	0.00	0.00	0.07	44	33	65	54	71	59	79	59	74	51	74	51	63	44	44
26	0.05	0.80	0.00	0.00	0.00	0.00	44	35	66	52	72	58	85	55	77	49	77	49	66	41	41
27	0.00	0.00	0.00	0.00	0.00	0.00	53	39	68	52	70	55	79	59	79	51	79	51	71	38	38
28	0.00	0.00	0.00	0.00	0.00	0.00	57	35	67	53	79	50	75	56	93	57	93	57	70	38	38
29	0.00	0.00	0.00	0.00	0.00	0.00	61	34	74	51	82	57	74	58	78	52	78	52	72	48	48
30	0.00	0.41	0.00	0.00	0.00	0.00	62	33	72	50	68	48	78	54	83	48	83	48	65	50	50
31		0.28		0.00					64	46			83	57	82	56	82	56			
Total/Avg	2.81	2.07	2.45	3.34	1.20	3.12	52	32	70	45	76	54	79	56	83	55	83	55	69	47	47

CLIMATIC DATA, 2016, Oakes NID

Date	Precipitation								April		May		June		July		August		Sept	
	April	May	June	July	August	Sept	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
1	0.00	0.00	0.00	0.00	0.01	0.00	44	25	64	31	60	44	78	47	88	70	86	61		
2	0.00	0.00	0.00	0.00	0.00	0.00	44	23	63	36	78	42	82	58	89	66	82	61		
3	0.00	0.00	0.34	0.00	0.98	0.00	58	26	76	35	70	58	83	59	90	64	85	66		
4	0.00	0.00	0.00	0.17	0.01	0.15	45	19	73	34	76	55	92	64	78	60	85	63		
5	0.00	0.00	0.00	0.00	0.00	0.09	60	30	89	44	82	55	81	61	81	55	68	61		
6	0.01	0.00	0.00	0.12	0.00	0.01	47	29	89	45	71	50	85	57	85	56	75	59		
7	0.02	0.00	0.00	0.05	0.00	0.44	46	30	71	39	75	47	79	61	85	58	75	56		
8	0.00	0.00	0.00	0.00	0.00	0.00	35	17	77	41	85	53	81	57	83	62	78	50		
9	0.00	0.08	0.00	0.21	0.09	0.03	54	16	65	50	92E	58E	90	58	90	64	70	51		
10	0.00	0.10	0.06	1.06	3.20	0.01	47	29	72	48	92	68	89	64	86	63	74	49		
11	0.00	0.00	0.00	1.54	0.00	0.00	41	22	63	44	88	65	78	60	82	65	85	50		
12	0.00	0.00	0.00	0.00	0.00	0.00	54	15	58	41	92	68	85	59	80	64	70	49		
13	0.00	0.23	0.00	0.00	0.00	0.00	69	23	44	29	85	59	81	60	81	60	60	39		
14	0.00	0.00	0.92	0.00	0.00	0.00	84	42	58	28	69	60	72	56	84	57	72	37		
15	0.32	0.00	0.00	0.00	0.00	0.00	62	53	68	30	79	60	80	52	84	66	76	54		
16	0.05	0.00	0.00	0.15	0.00	0.02	55	38	67	35	89	60	83	57	85	62	68	55		
17	0.07	0.00	0.00	0.00	0.00	0.00	48	36	69	32	89	69	81	62	89	60	81	45		
18	0.68	0.00	0.66	0.00	0.66	0.00	51	38	75	39	86	66	87	56	78	64	83	53		
19	0.13	0.00	0.00	0.00	0.01	0.00	52	43	77	48	91	69	93	68	76	56	81	48		
20	0.01	0.00	0.00	0.00	0.04	0.13	61	41	70	54	79	58	97	73	72	52	79	48		
21	0.00	0.00	0.06	0.00	0.00	0.00	58	34	80	49	85	54	92	70	81	47	76	53		
22	0.00	0.00	0.29	0.00	0.00	0.00	66	29	85	55	79	61	92	68	88	59	68	54		
23	0.00	0.10	0.00	0.00	0.00	0.15	79	43	81	57	80	55	89	67	89	61	69	59		
24	0.58	0.00	0.00	0.00	0.00	0.00	61	44	84	54	94	60	83	63	77	54	81	57		
25	0.76	0.82	0.00	0.00	0.00	0.00	46	40	72	52	86	66	91	59	68	52	68	48		
26	0.01	0.00	0.00	1.90	0.05	0.00	43	37	77	49	86	59	82	68	73	47	71	43		
27	0.10	0.00	0.00	0.32	0.00	0.00	48	35	74	51	74	53	81	62	79	60	73	41		
28	0.12	0.00	0.00	0.00	0.00	0.00	55	35	70	55	81	50	81	58	92	62	67	38		
29	0.00	0.00	0.24	0.00	0.00	0.00	62	33	80	54	86	54	82	60	85	59	71	36		
30	0.00	0.68	0.00	0.00	0.00	0.00	60	36	85	53	72	52	85	64	83	51	76	46		
31		0.00		0.00	0.00			67	67	53			88	65	83	60				
Total/Avg	2.86	2.01	2.57	5.52	5.05	1.03	55	32	72	44	84	60	85	61	83	59	75	51		

CLIMATIC DATA, 2016, Prosper ND

Date	Precipitation							April		May		June		July		August		Sept	
	April	May	June	July	August	Sept	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	
1	0.00	0.00	0.00	0.00	0.00	0.00	40	22	67	30	63	49	75	42	87	70	82	50	
2	0.00	0.00	0.00	0.00	0.00	0.00	34	19	71	39	77	45	79	57	88	61	80	57	
3	0.00	0.00	0.38	0.00	0.06	0.00	46	26	72	44	73	59	81	55	89	57	85	63	
4	0.00	0.00	0.00	0.22	0.02	0.18	42	20	73	38	73	57	87	61	80	57	78	61	
5	0.11	0.00	0.00	0.00	0.00	0.02	54	27	93	44	81	55	80	58	79	52	66	57	
6	0.01	0.00	0.10	0.01	0.00	0.00	39	32	84	43	69	53	81	56	82	52	73	53	
7	0.21	0.00	0.00	0.11	0.00	0.89	39	31	71	41	71	47	78	61	85	56	78	48	
8	0.00	0.00	0.00	0.00	0.00	0.01	32	19	78	38	83	49	79	58	83	56	77	50	
9	0.00	0.02	0.00	0.70	0.00	0.00	50	17	74	50	89	57	82	53	85	59	71	50	
10	0.00	0.03	0.16	0.40	0.55	0.00	44	30	63	52	89	65	82	62	78	59	73	49	
11	0.00	0.00	0.00	1.51	0.01	0.00	39	20	69	49	78	63	74	59	81	66	85	49	
12	0.00	0.00	0.02	0.01	0.00	0.00	49	17	57	42	85	63	80	58	82	60	68	49	
13	0.00	0.00	0.00	0.03	0.00	0.00	68	22	46	32	82	55	74	60	82	54	60	35	
14	0.00	0.00	0.43	0.11	0.00	0.00	72	36	56	23	69	60	63	57	83	52	70	32	
15	0.02	0.00	0.01	0.00	0.00	0.00	66	53	73	29	76	60	77	53	79	58	73	54	
16	0.26	0.00	0.00	0.00	0.03	0.36	57	39	67	36	82	53	76	54	83	55	68	55	
17	0.03	0.00	0.04	0.00	0.00	0.00	49	39	71	31	85	69	80	59	88	54	76	47	
18	0.02	0.00	0.20	0.00	0.27	0.00	51	39	76	35	79	63	85	54	80	58	77	50	
19	0.24	0.00	0.00	0.00	0.00	0.00	51	45	82	50	88	65	86	63	76	55	78	47	
20	0.00	0.00	0.00	0.20	0.00	0.24	66	45	75	54	76	56	88	68	71	50	69	45	
21	0.00	0.00	0.00	0.01	0.00	0.00	55	34	84	44	82	51	90	66	80	43	73	48	
22	0.00	0.11	0.14	0.00	0.00	0.00	63	29	83	50	76	56	90	63	85	54	67	48	
23	0.02	0.27	0.00	0.00	0.00	0.67	62	41	83	61	79	56	84	65	93	66	65	56	
24	0.39	0.00	0.00	0.00	0.00	0.01	56	42	82	57	85	57	82	58	77	52	78	64	
25	0.39	0.97	0.00	0.00	0.00	0.00	46	40	68	57	84	60	90	56	71	51	66	50	
26	0.00	0.43	0.00	0.14	0.00	0.00	48	37	74	52	80	60	85	64	78	43	66	41	
27	0.00	0.25	0.00	0.01	0.10	0.00	56	39	72	53	71	51	78	62	77	59	66	38	
28	0.00	0.00	0.00	0.00	0.00	0.00	59	36	71	58	79	46	80	58	89	57	64	39	
29	0.00	0.00	0.00	0.00	0.00	0.00	65	31	78	54	84	49	81	54	82	54	68	37	
30	0.00	1.02	0.00	0.00	0.00	0.00	64	37	87	52	67	55	82	61	81	47	72	41	
31		0.13		0.00	0.00				68	52			75	42	79	50			
Total/Avg	1.70	3.23	1.48	3.46	1.04	2.38	52	32	73	45	79	56	81	58	82	55	72	49	

CLIMATIC DATA, 2015, Prosper, ND

Date	Precipitation						April		May		June		July		August		Sept	
	April	May	June	July	August	Sept	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
1	0.00	0.06	0.00	0.00	0.00	0.00	72	40	77	42	75	51	77	59	85	53	89	52
2	0.00	0.04	0.00	0.00	0.00	0.00	52	21	87	41	82	58	79	56	77	53	89	65
3	0.00	0.00	0.00	0.00	0.00	0.00	45	13	71	43	70	54	83	61	78	49	92	69
4	0.00	0.00	0.00	0.00	0.00	0.00	48	16	71	36	76	54	85	58	80	48	82	68
5	0.00	0.00	0.00	0.00	0.00	0.00	45	22	81	37	78	56	83	65	80	50	78	64
6	0.00	0.12	0.40	0.00	0.00	0.01	44	27	64	57	75	57	68	47	76	63	79	51
7	0.00	0.08	0.00	0.00	0.49	0.00	40	33	66	44	86	56	74	43	85	55	72	45
8	0.00	0.00	0.01	0.24	0.08	0.00	45	32	45	36	88	55	71	54	83	60	75	46
9	0.00	0.00	0.00	0.00	0.00	0.00	63	32	52	29	92	56	82	50	80	59	75	45
10	0.00	0.86	0.00	0.00	0.00	0.00	59	29	45	40	75	57	87	54	82	55	66	41
11	0.00	0.62	0.00	0.00	0.00	0.00	80	24	42	35	82	60	85	67	85	52	69	41
12	0.00	0.00	0.00	0.12	0.00	0.00	70	38	56	33	84	53	89	65	90	56	77	38
13	0.00	0.65	0.00	0.11	0.00	0.00	63	26	61	44	85	58	83	64	88	65	87	49
14	0.00	0.53	1.59	0.00	0.00	0.00	80	22	59	51	71	57	87	65	92	62	80	50
15	0.00	0.01	0.00	0.11	0.07	0.00	77	43	60	48	69	51	87	65	92	70	84	65
16	0.00	0.00	0.29	0.05	0.02	0.00	69	39	68	51	60	45	81	65	74	54	79	57
17	0.00	2.05	0.00	1.38	0.00	0.00	77	25	63	37	70	51	84	59	75	50	71	43
18	0.00	0.07	0.01	0.01	0.46	0.03	73	32	39	33	69	51	74	59	64	50	61	38
19	0.49	0.00	0.05	0.00	0.03	0.00	58	38	57	31	84	55	84	57	71	47	78	41
20	0.02	0.00	0.07	0.00	0.00	0.00	41	34	73	33	80	57	75	56	76	42	79	46
21	0.00	0.00	0.55	0.00	0.00	0.00	43	32	71	42	86	53	81	54	82	56	92	49
22	0.00	0.00	0.15	0.48	0.18	0.00	50	25	78	39	73	56	85	64	75	51	67	43
23	0.00	0.00	0.00	0.42	0.10	0.46	53	19	75	45	83	53	86	64	69	52	59	49
24	0.20	0.00	0.07	0.18	0.00	0.00	56	38	72	47	83	59	82	64	71	46	71	55
25	0.00	0.30	0.01	0.00	0.00	0.00	61	39	67	51	81	54	85	58	73	42	81	53
26	0.00	0.00	0.00	0.00	0.00	0.00	68	33	80	47	85	60	86	60	76	43	84	57
27	0.01	0.01	1.12	0.00	0.00	0.00	75	33	82	54	84	59	87	63	78	51	81	54
28	0.06	0.44	0.00	0.38	0.00	0.00	68	39	86	60	82	60	77	65	81	59	71	41
29	0.00	0.01	0.00	0.00	0.00	0.00	74	33	63	41	76	62	80	62	83	60	70	32
30	0.01	0.00	0.00	0.00	0.00	0.00	81	34	59	34	74	56	82	57	86	61	72	45
31		0.00		0.00	0.00				63	41			81	54	83	56		
Total/Avg	0.79	5.85	4.32	3.48	1.43	0.86	61	30	66	42	79	55	82	59	80	54	77	50

CLIMATIC DATA, 2016, St Thomas ND

Date	Precipitation							April		May		June		July		August		Sept	
	April	May	June	July	August	Sept	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
1	0.00	0.00	0.18	0.00	0.09	0.00	36	21	67	37	59	48	74	43	82	62	79	52	
2	0.00	0.00	0.00	0.00	0.00	0.00	28	16	72	41	73	44	75	55	84	56	78	60	
3	0.00	0.00	0.29	0.00	1.62	0.00	31	22	67	46	66	56	80	59	87	58	82	62	
4	0.00	0.00	0.00	0.00	0.00	1.18	36	17	74	38	74	57	88	62	75	59	71	57	
5	0.05	0.00	0.03	0.02	0.00	0.00	39	30	93	51	80	56	79	58	76	56	69	56	
6	0.02	0.00	0.04	0.01	0.00	0.00	37	32	70	52	69	52	75	55	77	55	70	53	
7	0.01	0.00	0.00	0.44	0.00	0.22	38	26	74	42	71	47	67	58	80	56	68	47	
8	0.00	0.00	0.00	0.00	0.00	0.01	28	19	78	42	77	47	78	58	81	60	73	53	
9	0.00	0.00	0.00	0.16	0.00	0.00	44	21	80	45	87	55	79	55	74	59	66	49	
10	0.00	0.04	0.21	0.00	0.25	0.00	39	26	61	49	90	65	83	62	82	56	71	48	
11	0.00	0.00	0.00	1.52	0.57	0.00	33	20	68	47	74	56	78	63	79	63	82	53	
12	0.00	0.00	0.20	0.07	0.00	0.00	50	21	51	38	74	55	75	59	78	59	64	47	
13	0.00	0.00	0.00	0.10	0.00	0.00	64	27	45	28	82	52	68	58	78	57	56	37	
14	0.05	0.00	0.17	0.04	0.00	0.00	61	40	57	28	73	58	71	57	84	54	64	35	
15	0.01	0.00	0.09	0.00	0.25	0.00	63	38	69	39	79	61	74	56	82	58	68	47	
16	0.49	0.05	0.00	0.62	0.01	0.30	42	36	67	44	79	56	76	56	84	60	67	53	
17	0.04	0.00	2.01	0.17	0.00	0.00	42	36	71	33	81	64	79	59	87	57	71	47	
18	0.24	0.00	0.00	0.00	0.44	0.02	52	36	78	41	78	58	78	57	80	62	79	54	
19	0.00	0.00	0.20	1.59	0.00	0.00	58	35	82	50	86	63	85	61	74	56	74	48	
20	0.00	0.00	0.00	0.43	0.00	0.00	69	48	79	48	76	57	84	66	71	51	74	46	
21	0.00	0.00	0.00	0.00	0.00	0.01	55	34	84	48	76	54	86	62	78	46	68	51	
22	0.00	1.00	0.38	0.00	0.00	0.00	55	31	82	55	65	52	84	64	83	56	67	44	
23	0.02	0.14	0.00	0.30	0.00	0.19	55	37	80	58	78	50	76	64	84	63	67	48	
24	0.00	0.02	0.00	0.00	0.00	0.68	49	40	77	57	82	55	80	61	74	54	74	56	
25	0.03	1.37	0.00	0.00	0.00	0.10	46	38	70	55	82	61	86	61	73	49	67	51	
26	0.00	0.00	0.00	0.00	0.00	0.00	58	37	69	54	72	55	84	61	76	45	62	47	
27	0.00	0.00	0.00	0.00	0.22	0.00	59	37	74	50	71	52	76	59	72	50	60	43	
28	0.00	0.04	0.00	0.00	0.00	0.00	60	35	71	58	79	49	74	54	82	52	63	40	
29	0.00	0.00	0.01	0.00	0.00	0.00	64	33	75	57	84	58	80	50	79	42	65	40	
30	0.00	0.12	0.00	0.31	0.00	0.00	64	34	80	51	67	48	81	59	80	48	70	42	
31		0.08		0.00	0.00				69	56			84	61	75	51			
Total/Avg	0.96	2.86	3.81	5.78	3.45	2.71	49	31	72	46	76	55	79	58	79	55	70	49	



CLIMATIC DATA, 2016, Tappen ND

Date	Precipitation							April		May		June		July		August		Sept	
	April	May	June	July	August	Sept	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
1	0.00	0.00	0.00	0.11	0.07	0.00	45	21	63	32	61	44	77	42	86	61	85	57	
2	0.00	0.10	0.00	0.00	0.01	0.00	59	20	63	39	78	44	80	56	85	58	82	62	
3	0.00	0.00	0.27	0.13	0.00	0.00	49	23	73	37	78	57	80	58	92	65	84	62	
4	0.02	0.00	0.00	0.00	0.04	1.76	54	20	76	34	77	55	94	63	76	52	69	55	
5	0.00	0.00	0.00	0.00	0.00	0.01	64	35	88	49	79	54	83	57	80	46	61	54	
6	0.09	0.00	0.00	0.53	0.00	0.00	44	33	76	41	69	49	82	56	84	56	66	49	
7	0.00	0.00	0.00	0.00	0.00	0.51	44	28	69	37	76	45	77	58	84	57	64	48	
8	0.00	0.00	0.00	0.01	0.00	0.00	38	20	74	43	83	52	79	50E	90	64	75	46	
9	0.00	0.00	0.00	0.66	0.80	0.13	65	22	67	47	92	55	87	58	83	54	63	47	
10	0.00	0.00	0.28	1.46	1.34	0.00	44	27	67	44	89	63	86	61	77	58	69	42	
11	0.00	0.00	0.00	0.59	0.00	0.00	41	19	62	43	77	61	76	59	82	57	86	51	
12	0.00	0.00	0.19	0.01	0.00	0.00	54	26	54	41	84	59	79	58	78	55	61	41	
13	0.00	0.00	0.00	0.00	0.00	0.00	68	22	46	35	84	52	77	59	78	55	55	35	
14	0.00	0.00	0.60	0.00	0.00	0.00	70	46	59	26	69	55	67	53	83	53	68	40	
15	0.10	0.00	0.00	0.00	0.00	0.15	71	40	69	32	79	54	77	46	83	57	62	47	
16	0.32	0.00	0.00	0.14	0.00	0.00	40	34	66	36	89	57	77	59	82	55	62	45	
17	0.29	0.00	0.03	0.00	0.00	0.00	41	34	70	32	81	61	78	58	87	56	78	39	
18	0.15	0.00	0.27	0.00	0.00	0.00	46	37	76	47	84	57	85	54	76	54	80	50	
19	0.14	0.00	0.00	0.00	0.04	0.00	56	45	78	54	87	57	91	65	68	46	73	42	
20	0.00	0.00	0.00	0.00	0.05	0.06	67	42	73	51	77	53	94	70	69	46	74	50	
21	0.00	0.00	0.00	0.00	0.00	0.00	54	31	78	51	83	49	89	67	81	44	70	49	
22	0.00	0.14	0.26	0.08	0.00	0.00	63	28	79	59	71	51	87	64	88	57	61	46	
23	0.00	0.15	0.00	1.17	0.00	0.36	68	43	80	56	76	46	83	64	82	52	64	54	
24	1.22	0.06	0.00	0.00	0.00	0.00	47	41	79	48	92	56	79	57	73	49	77	52	
25	0.86	0.21	0.00	0.00	0.00	0.08	41	38	68	57	82	63	91	58	67	51	63	40	
26	0.00	0.00	0.00	0.06	0.00	0.00	41	37	75	48	80	56	80	63	69	43	65	35	
27	0.00	0.00	0.00	0.00	0.00	0.00	52	40	74	45	75	54	75	58	80	53	68	37	
28	0.03	0.00	0.00	0.00	0.00	0.00	58	36	73	50	83	47	75	55	90	62	59	31	
29	0.00	0.00	0.00	0.00	0.00	0.00	62	29	77	51	85	53	78	59	79	51	66	38	
30	0.00	0.29	0.00	0.10	0.00	0.00	61	33	84	51	72	48	83	61	81	47	69	46	
31		0.05		0.00	0.02				66	52			85	66	76	59			
Total/Avg	3.22	1.00	1.90	5.05	2.37	3.06	54	32	71	44	80	54	82	60	80	54	67	46	

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CLIMATIC DATA, 2016, Wahpeton ND

Date	Precipitation												April		May		June		July		August		Sept	
	April	May	June	July	August	Sept	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min				
1	0.00	0.00	0.00	0.00	0.01	0.00	40	23	65	35	62	51	76	38	85	70	81	55						
2	0.00	0.00	0.00	0.00	0.00	0.00	34	20	71	39	78	44	85	58	88	60	78	56						
3	0.00	0.00	0.13	0.00	0.06	0.00	51	23	75	40	75	56	83	61	87	57	82	63						
4	0.00	0.00	0.00	0.00	0.19	0.06	42	21	71	36	76	55	91	61	79	56	85	65						
5	0.08	0.00	0.00	0.00	0.00	0.40	55	30	90	45	83	53	83	55	79	50	73	60						
6	0.03	0.00	0.11	0.01	0.00	0.00	41	33	91	47	71	50	85	54	82	50	75	55						
7	0.34	0.00	0.00	0.00	0.00	1.25	39	32	70	39	74	44	80	54	82	56	75	54						
8	0.00	0.00	0.00	0.00	0.00	0.01	32	18	77	38	85	47	80	53	80	56	77	52						
9	0.00	0.13	0.00	1.29	0.02	0.28	50	17	72	52	90	62	84	51	89	64	72	50						
10	0.00	0.10	0.00	0.66	3.05	0.00	51	32	59	52	91	64	83	65	83	63	73	43						
11	0.00	0.11	0.00	2.09	0.14	0.00	40	20	67	48	85	58	75	62	82	64	85	55						
12	0.00	0.00	0.05	0.00	0.00	0.00	43	16	56	37	88	69	83	59	80	60	70	49						
13	0.00	0.00	0.00	0.07	0.00	0.00	69	21	46	30	84	58	78	61	80	56	60	36						
14	0.00	0.00	0.38	0.20	0.00	0.00	86	43	56	27	68	59	64	54	82	53	70	32						
15	0.01	0.00	0.02	0.00	0.03	0.25	71	52	71	28	76	59	77	50	74	63	70	56						
16	0.14	0.00	0.00	0.08	0.00	0.97	77	46	68	38	82	53	79	54	84	60	72	55						
17	0.03	0.00	0.00	0.00	0.00	0.00	60	41	69	32	81	66	80	61	87	57	75	49						
18	0.48	0.00	0.10	0.00	0.10	0.00	65	42	74	40	82	61	86	54	78	60	80	53						
19	0.24	0.00	0.00	0.00	0.01	0.00	52	44	79	49	93	66	87	64	76	55	79	48						
20	0.00	0.00	0.00	0.00	0.05	0.02	62	45	75	53	77	53	90	70	70	51	80	46						
21	0.00	0.00	0.00	0.02	0.00	0.00	58	34	82	49	84	51	90	65	76	43	75	55						
22	0.00	0.00	0.14	0.00	0.00	0.00	64	28	86	54	79	60	91	65	83	59	68	55						
23	0.00	0.02	0.00	0.08	0.01	0.18	76	46	82	59	80	52	83	69	86	66E	66	59						
24	1.14	0.00	0.00	0.00	0.00	0.31	61	44	85	54	88	58	82	60	77	53	79	63						
25	1.04	0.63	0.00	0.00	0.00	0.01	46	40	72	59	88	55	88	57	69	50	66	49						
26	0.02	0.01	0.00	0.05	0.00	0.00	45	37	78	50	84	55	85	66	76	44	69	43						
27	0.03	0.00	0.00	0.30	0.21	0.00	54	39	78	53	72	49	79	62	75	58	67	37						
28	0.01	0.00	0.00	0.00	0.00	0.00	55	39	71	57	79	44	80	59	88	60	65	39						
29	0.00	0.00	0.00	0.00	0.00	0.00	63	35	80	51	84	49	80	55	85	58	67	38						
30	0.00	0.26	0.00	0.00	0.00	0.00	63	41	88	51	70	47	81	63	81	47	72	45						
31		0.20		0.00	0.00				71	54			76	38	80	48								
Total/Avg	3.59	1.46	0.93	4.85	3.88	3.74	55	33	73	45	80	55	82	58	81	52	74	51						

CLIMATIC DATA, 2016, Williston ND

Date	Precipitation												April		May		June		July		August		Sept	
	April	May	June	July	August	Sept	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min				
1	0.00	0.00	0.00	0.18	0.17	0.00	57	19	67	35	68	41	79	54	84	61	92	65						
2	0.00	0.00	0.00	0.19	0.00	0.00	74	26	74	48	79	49	85	60	89	53	90	66						
3	0.00	0.00	0.00	0.00	0.00	0.00	63	32	81	41	74	55	85	64	91E	59	76	56						
4	0.00	0.00	0.00	0.00	0.00	0.01	63	26	85	50	81	53	82	62	78	55	66	54						
5	0.06	0.00	0.00	0.41	0.00	0.27	57	31	90	56	79	57	77	57	86	51	55	50						
6	0.00	0.00	0.00	0.20	0.00	0.08	60	30	70	53	73	51	76	51	91	56	70	50						
7	0.00	0.00	0.00	0.09	0.00	0.42	54	30	73	38	81	51	72	54	90	61	68	51						
8	0.00	0.00	0.00	0.00	0.00	0.00	50	25	77	47	87	58	84	53	88	64	75	47						
9	0.00	0.00	0.17	0.01	0.03	0.16	71	33	72	48	94	63	86	62	84	55	69	48						
10	0.00	0.15	0.00	0.06	0.06	0.00	39	22	56	39	85	61	81	62	81	60	76	43						
11	0.00	0.00	0.51	0.00	0.00	0.00	48	13	51	37	72	57	76	60	83	56	82	49						
12	0.00	0.00	0.03	0.44	0.00	0.00	64	31	53	32	75	57	71	57	80	55	56	42						
13	0.00	0.00	0.25	0.02	0.00	0.00	78	40	52	32	80	51	76	59	83	54	58	30						
14	0.26	0.00	0.00	0.19	0.00	0.00	68	38	62	33	78	58	72	52	89	54	74	41						
15	0.22	0.00	0.00	0.00	0.00	0.92	46	36	68	32	74	55	77	50	88	57	64	53						
16	0.15	0.00	0.00	0.47	0.00	0.00	39	32	71	40	85	63	77	58	89	55	72	50						
17	0.00	0.00	0.00	0.01	0.00	0.00	48	35	76	45	78	54	78	54	96	62	82	48						
18	0.02	0.00	0.11	0.01	0.00	0.00	53	37	78	49	85	57	85	59	77	61	78	49						
19	0.00	0.00	0.01	0.08	0.24	0.00	56	43	82	49	74	57	93	66	70	55	73	45						
20	0.01	0.00	0.00	0.00	0.00	0.00	71	41	80	55	79	50	93	66	76	50	74	43						
21	0.00	0.00	0.13	0.00	0.00	0.53	59	36	80	54	83	54	92	63	90	53	58	51						
22	0.00	0.00	0.03	0.10	0.00	0.18	68	40	77	55	70	54	91	62	99	57	57	50						
23	0.00	0.00	0.00	0.13	0.00	1.01	64	39	73	44	81	50	82	59	79	59	56	49						
24	0.91	0.00	0.27	0.00	0.00	0.11	44	35	72	43	86	58	87	55	64	51	56	50						
25	0.19	0.20	0.20	0.00	0.00	0.07	43	33	60	47	69	54	91	59	77	50	64	43						
26	0.10	0.08	0.00	0.00	0.00	0.00	40	34	66	43	73	56	82	62	78	48	71	39						
27	0.13	0.00	0.00	0.00	0.00	0.00	50	38	69	46	75	55	74	58	83	46	80	42						
28	0.00	0.37	0.00	0.00	0.00	0.00	57	35	70	53	82	55	77	58	88	59	75	49						
29	0.00	0.00	0.00	0.00	0.00	0.00	61	34	76	47	82	57	83	53	80	49	77	47						
30	0.00	0.56	0.00	0.00	0.00	0.00	62	36	60	50	76	56	89	57	84	57	68	52						
31		0.68		0.02	0.00				54	49			97	64	96	63								
Total/Avg	2.05	2.04	1.71	2.61	0.50	3.76	57	33	70	45	79	55	82	58	84	56	70	48						