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2021 Fertilizer Weather Station Report

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2021 Fertilizer Weather Station Report

Abstract

This report includes the annual summary of precipitation from 2021 at the research locations represented in the 2022 field report and further details about the Kansas River Valley locations and the east central Kansas locations.

Keywords

Kansas State experiment field, 2021 growing season weather, Kansas weather, fertilizer research

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2021 Fertilizer Weather Station Report

Table 1. Precipitation at Abilene, Ashland Bottoms, and Belleville

	Abilene		Ashland Bottoms		Belleville	
	Actual	Normal	Actual	Normal	Actual	Normal
January	1.08	0.86	0.99	0.65	0.56	0.49
February	0.05	1.43	0.09	0.96	0.08	0.77
March	3.94	2.23	3.41	1.83	3.80	1.58
April	2.46	3.26	2.45	3.13	1.47	2.93
May	8.35	5.20	5.39	4.65	3.20	4.55
June	1.78	4.18	1.42	4.83	0.79	4.06
July	4.05	4.75	5.92	4.01	4.54	4.63
August	1.42	4.27	1.54	4.64	5.97	3.24
September	7.07	2.54	3.76	2.69	1.79	2.75
October	2.92	2.47	2.78	2.18	4.23	2.11
November	0.26	1.59	1.40	1.54	0.17	1.2
December	0.33	1.50	0.13	1.06	0.03	1.03
Annual	33.71	34.28	29.28	32.17	26.63	29.34
Last spring freeze	4/23/2021		4/23/2021		4/23/2021	
First fall freeze	10/31/2021		10/31/2021		10/22/2021	
Frost free days	191		191		182	
Number of days > 90°	59		53		40	
Number of days > 100°	9		6		3	
Number of days < 10°	15		15		19	

Table 2. Precipitation at Gove, Hiawatha, and Kiro

	Gove		Hiawatha		Kiro	
	Actual	Normal	Actual	Normal	Actual	Normal
January	0.36	0.56	1.38	0.77	1.86	0.89
February	0.09	0.55	0.07	1.15	0.06	1.31
March	3.95	1.27	4.40	2.01	3.79	2.25
April	0.72	2.11	1.66	3.58	2.68	3.81
May	3.88	3.45	3.27	4.83	5.93	5.17
June	0.74	2.71	8.04	5.03	3.26	4.92
July	1.77	3.66	2.65	4.46	2.99	3.99
August	0.23	2.73	4.21	3.86	3.06	4.55
September	1.61	1.92	1.74	3.22	2.73	3.52
October	1.55	1.88	5.06	2.86	4.37	2.85
November	0.20	0.64	2.91	1.72	1.14	1.78
December	0.22	0.72	0.71	1.22	0.25	1.49
Annual	15.32	22.20	36.10	34.71	32.12	36.53
Last spring freeze	4/22/2021		5/14/2021		4/23/2021	
First fall freeze	10/16/2021		10/23/2021		10/31/2021	
Frost free days	177		162		191	
Number of days > 90°	86		27		48	
Number of days > 100°	32		0		1	
Number of days < 10°	20		17		15	

Table 3. Precipitation at Manhattan, Ottawa, and Parsons

	Manhattan		Ottawa, ECK		Parsons	
	Actual	Normal	Actual	Normal	Actual	Normal
January	0.90	0.64	3.26	1.22	3.86	1.42
February	0.10	1.14	0.16	1.57	0.36	1.70
March	3.61	2.17	4.78	2.29	6.05	2.95
April	2.06	3.38	3.24	3.79	2.27	4.77
May	4.68	5.23	12.07	5.82	5.78	6.84
June	2.03	5.47	5.49	5.55	7.11	5.64
July	7.41	4.62	4.66	3.75	9.45	4.23
August	2.52	4.4	2.74	4.63	4.22	4.07
September	2.83	3.41	2.70	4.05	2.15	4.83
October	3.60	2.5	4.61	3.08	5.18	3.64
November	1.14	1.62	0.63	2.39	0.53	2.80
December	0.32	1.19	0.34	1.71	1.23	2.00
Annual	31.20	35.77	44.68	39.85	48.19	44.89
Last spring freeze	4/23/2021		4/23/2021		4/23/2021	
First fall freeze	11/13/2021		11/4/2021		11/14/2021	
Frost free days	204		195		205	
Number of days > 90°	55		36		44	
Number of days > 100°	5		1		0	
Number of days < 10°	13		14		8	

Table 4. Precipitation at Rossville, Russell Springs, and Salina

	Rossville, KRV		Russell Springs		Salina	
	Actual	Normal	Actual	Normal	Actual	Normal
January	2.06	0.74	0.33	0.31	1.10	0.71
February	0.06	1.18	0.10	0.54	0.02	0.87
March	4.39	2.08	2.97	0.86	4.02	1.82
April	2.68	3.48	0.52	1.83	2.78	2.72
May	6.77	5.06	7.23	2.66	5.68	5.04
June	2.81	5.11	2.40	2.34	1.34	3.75
July	3.29	4.32	1.87	3.00	1.53	3.92
August	2.21	4.6	1.67	2.56	1.82	3.71
September	2.68	3.75	3.37	1.58	2.69	2.65
October	3.61	2.71	1.06	1.37	2.25	2.16
November	1.19	1.67	0.07	0.60	0.00	1.22
December	0.31	1.37	0.09	0.54	0.01	1.12
Annual	32.06	36.07	21.68	18.19	23.24	29.69
Last spring freeze	4/23/2021		4/22/2021		5/6/2021	
First fall freeze	10/31/2021		10/16/2021		10/17/2021	
Frost free days	191		177		164	
Number of days > 90°	38		61		64	
Number of days > 100°	0		9		9	
Number of days < 10°	14		18		18	

Table 5. Precipitation at Scandia and Topeka

	Scandia		Topeka, KRV	
	Actual	Normal	Actual	Normal
January	0.48	0.49	1.86	0.89
February	0.03	0.77	0.06	1.31
March	4.35	1.58	3.79	2.25
April	1.40	2.93	2.68	3.81
May	2.89	4.55	5.93	5.17
June	0.97	4.06	3.26	4.92
July	1.60	4.63	2.99	3.99
August	3.46	3.24	3.06	4.55
September	1.02	2.75	2.73	3.52
October	2.84	2.11	4.37	2.85
November	0.16	1.2	1.14	1.78
December	0.06	1.03	0.25	1.49
Annual	19.26	29.34	32.12	36.53
Last spring freeze	5/14/2021		4/23/2021	
First fall freeze	10/15/2021		10/31/2021	
Frost free days	154		191	
Number of days > 90°	33		48	
Number of days > 100°	0		1	
Number of days < 10°	21		15	

Table 6. Location references per field locations

Field Location	Mesonet site	Normals site
	(Actual precipitation, temperatures)	(Normal precipitation)
Abilene	Rock Springs	Abilene (ABLK1)
Ashland Bottoms	Ashland Bottoms	Manhattan ASOS (MHK)
Belleville	Belleville 2W	Scandia (SCDK1)
Gove	Gove 5SE	Gove 4W (GOVK1)
Hiawatha	Hiawatha	Hiawatha 1S (HIAK1)
Kiro	Silver Lake 4E	Topeka ASOS (TOP)
Manhattan	Manhattan	Manhattan (MHTK1)
Ottawa, ECK	Ottawa 2SE	Ottawa (OTTK1)
Parsons	Parsons	Parsons 2NW (PARK1)
Rossville, KRV	Rossville 2SE	Rossville (RVEK1)
Russell Springs	Russell Springs 3SW	Russell Springs 3N (RLLK1)
Salina	Gypsum	Salina FAA Airport (SLN)
Scandia	Scandia	Scandia (SCDK1)
Topeka, KRV	Silver Lake 4E	Topeka ASOS (TOP)