

Supplementary material for “Evaluation of Hydroclimatic Variability and Prospective Implementation of Irrigation Strategies in the U.S. Corn Belt”

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SI: Detailed information about the weather station and important seeding and harvest date for each study site during each climatic conditions.

Data obtained from:

General	People	Patton, S. L., Takle, E. S.
	Institute	Iowa State University
	Contact	Patton, S. L., srab@iaState.edu
	Methods	MM5I_HADCM3 historical data from NARCCAP
		MM5I_HADCM3 future data from NARCCAP

Weather Stations

H: Historical climatic conditions (1981:2010) and F: Future climatic conditions (2041-2070)

Marysville E1			Kirkville W1		
Latitude	Longitude	Altitude (m)	Latitude	Longitude	Altitude (m)
40.2339	-83.3663	303	40.1936	-92.5794	300
Seeding Date (H)		Harvest Date (H)	Seeding Date (H)		Harvest Date (H)
1-May		28-Sep	20-Apr		17-Sep
Seeding Date (F)		Harvest Date (F)	Seeding Date (F)		Harvest Date (F)
24-Apr		21-Sep	11-Apr		8-Sep
Toledo E2			Topeka W2		
Latitude	Longitude	Altitude (m)	Latitude	Longitude	Altitude (m)
41.6656	-83.5753	187	39.0558	-95.6894	282
Seeding Date (H)		Harvest Date (H)	Seeding Date (H)		Harvest Date (H)
1-May		28-Sep	25-Apr		22-Sep
Seeding Date (F)		Harvest Date (F)	Seeding Date (F)		Harvest Date (F)
24-Apr		21-Sep	15-Apr		12-Sep
Huntington E3			New Madrid W3		
Latitude	Longitude	Altitude (m)	Latitude	Longitude	Altitude (m)
40.8819	-85.4956	224	36.5878	-89.5358	90
Seeding Date (H)		Harvest Date (H)	Seeding Date (H)		Harvest Date (H)
5-May		2-Oct	20-Apr		17-Sep
Seeding Date (F)		Harvest Date (F)	Seeding Date (F)		Harvest Date (F)
1-May		28-Sep	11-Apr		8-Sep
Baraboo E4			Olivia W4		
Latitude	Longitude	Altitude (m)	Latitude	Longitude	Altitude (m)
43.4681	-89.7417	266	44.7758	-94.9919	325
Seeding Date (H)		Harvest Date (H)	Seeding Date (H)		Harvest Date (H)
1-May		28-Sep	3-May		30-Sep
Seeding Date (F)		Harvest Date (F)	Seeding Date (F)		Harvest Date (F)
2-May		29-Sep	26-Apr		23-Sep
DeKalb E5			Brookings W5		
Latitude	Longitude	Altitude (m)	Latitude	Longitude	Altitude (m)
41.9314	-88.7503	266	44.3064	-96.7881	504
Seeding Date (H)		Harvest Date (H)	Seeding Date (H)		Harvest Date (H)
30-Apr		27-Sep	9-May		6-Oct
Seeding Date (F)		Harvest Date (F)	Seeding Date (F)		Harvest Date (F)
21-Apr		18-Sep	2-May		29-Sep
Beloit E6			Iowa City W6		
Latitude	Longitude	Altitude (m)	Latitude	Longitude	Altitude (m)
42.5083	-89.0317	227	41.6558	-91.525	204
Seeding Date (H)		Harvest Date (H)	Seeding Date (H)		Harvest Date (H)
1-May		28-Sep	2-May		29-Sep
Seeding Date (F)		Harvest Date (F)	Seeding Date (F)		Harvest Date (F)
2-May		29-Sep	25-Apr		22-Sep

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Rensselaer E7			Grand Forks W7		
Latitude	Longitude	Altitude (m)	Latitude	Longitude	Altitude (m)
40.9381	-87.1514	202	47.9253	-97.0325	381
Seeding Date (H)		Harvest Date (H)	Seeding Date (H)		Harvest Date (H)
5-May		2-Oct	13-May		10-Oct
Seeding Date (F)		Harvest Date (F)	Seeding Date (F)		Harvest Date (F)
1-May		28-Sep	2-May		29-Sep
Tuscola E8			Columbus W8		
Latitude	Longitude	Altitude (m)	Latitude	Longitude	Altitude (m)
41.9314	-88.7503	266	41.4328	-97.3586	440
Seeding Date (H)		Harvest Date (H)	Seeding Date (H)		Harvest Date (H)
30-Apr		27-Sep	3-May		30-Sep
Seeding Date (F)		Harvest Date (F)	Seeding Date (F)		Harvest Date (F)
21-Apr		18-Sep	27-Apr		24-Sep
			Rochester W9		
			Latitude	Longitude	Altitude (m)
			44.0234	-92.463	303
			Seeding Date (H)		Harvest Date (H)
			3-May		30-Sep
			Seeding Date (F)		Harvest Date (F)
			26-Apr		23-Sep