

Storm water Memorandum

PROPOSED SOLAR FACILITY AT
39W553 Tanner Road,
Sugar Grove, Illinois 60554

Prepared for

Catfish Renewable Energy LLC
2900 Tanner Road
North Aurora, IL 60542
(916) 995-8570

Prepared by



Christopher B. Burke Engineering, Ltd.
9575 West Higgins Road, Suite 600
Rosemont, IL 60018
847-823-0500
CBBEL Project No. 260254.0000

July 2026

Jonathan O' Connell
Illinois Registered Professional Engineer
No. 062-059191

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2. National Wetland Inventory
3. Kane County Wetland Inventory
4. Soil Survey
5. Hydrologic Atlas
6. United States Geological Survey
7. Flood Insurance Rate Map
8. Approximate Wetland Delineation
9. Existing Drainage Plan
10. Proposed Drainage Plan

LIST OF CALCULATIONS

1. BMP Volume for Impervious Area
2. BMP Volume per Minnesota Calculation

LIST OF ATTACHMENTS

1. Historical Aerial Images
2. Preliminary Drain Tile Plan
3. Wetland Delineation Report

CHAPTER 1 PROJECT OVERVIEW

1.1 INTRODUCTION

Christopher B. Burke Engineering, LTD (CBBEL) has been retained to prepare a Special Use Permit application on behalf of Catfish Renewable Energy LLC for the proposed Tanner Road Solar Project. This project is in Kane County, IL, near 39W553 Tanner Rd in North Aurora. This project is an approximately 3-5 MW_{AC} community solar generating facility on approximately 20.3 acres of a 40.9-acre parcel currently being used for agricultural purposes.

The proposed solar farm will be connected into ComEd electrical on two parcels (PIN 14-01-100-017 and PIN: 11-36-300-028) located south of Tanner Rd. Currently, this land is being used for homestead-dwelling and agricultural respectively. The array sits entirely in the agricultural parcel. The Project Location Map is shown in Exhibit 1.

As indicated on the project Flood Insurance Rate Map (FIRM) from the Federal Emergency Management Agency (FEMA), a portion of the subject parcel lies within the 100-year regulatory floodplain, as indicated on Exhibit 7. Based on the Kane County GIS Stormwater Viewer available mapping, a small area of wetlands is present within the site southeast corner of the parcel. These identified wetlands will not be impacted by the proposed development.

The proposed site plan incorporates Best Management Practices (BMPs), including water quality and erosion control features such as a shade-tolerant seed mix. Additionally, infiltration stone trenches will be implemented to treat first inch of runoff from added impervious area. There is no grading associated with the project construction.

The application complies with the Kane Country Stormwater Management Ordinance.

1.2 PURPOSE

This memorandum summarizes the stormwater implications for a proposed solar array to be constructed on Tanner Road. The site's general location is shown on Exhibit 1. The proposed solar array includes constructing a 20.3-acre solar field, including 12,852 sq ft of gravel access road and 608 sq ft for an equipment pad.

2.1 EXISTING STORMWATER SYSTEM

Under current conditions, the existing site has two outfalls where surface runoff leaves the site. There are no closed systems within the site, and no offsite drainage flows through the project area. The site drains via sheet flow that discharge at the project boundaries. These two outlets are on the southeast corner, and on the south side of the site. Both outlets exit to wetland 1 as shown in the wetland approximate delineations in Exhibit 3 and Exhibit 8. The existing site comprises of primarily agricultural land with one single-family residence on the property. The Flood Insurance Rate Map (FIRM) from the Federal Emergency Management Agency (FEMA) indicates there is 100-year regulatory floodplain in the southeast corner of the site, as shown in Exhibit 7. The Existing Drainage Plan is provided as Exhibit 9.

2.2 PROPOSED STORMWATER SYSTEM

As part of the proposed solar array, gravel roads, and equipment pad are proposed to be constructed. The ground cover in locations where solar panels are installed will be restored to a native plantings. Table 2-1 summarizes the proposed impacts. The added impervious area is under 25,000 ft² (0.57 Acres). Based on the ordinance table 9-81, no detention is required. The Proposed Drainage Plan is provided as Exhibit 10.

Type of Impervious Area	Area (sq ft)	Area (ac)
Existing Impervious Area	771	0.02
Gravel Access	12,852	0.30
Equipment Pad	608	0.01
TOTAL	13,460	0.33

Table 2-1 Impact Area Summary in Proposed Conditions

Outlet 1 has one subbasin and includes all the above added impervious areas. Outlet 2 also only has one subbasin and does not have any additional added impervious areas other than solar panels.

2.3 BMP'S

The Best Management Practice (BMP) requirement is broken out into two calculations. The first portion is for the sites' new impervious area. The second is for the calculation of the first inch of runoff for the solar panels drip edge using the Minnesota Calculator.

The proposed development adds approximately 13,460 square feet of impervious area to the site. Table T9-197.A in section T9-107 of the Kane County Stormwater Technical Manual indicates that Category 1 BMPs are required since the disturbed area is over 5,000 ft². The proposed BMPs will provide runoff volume reduction and water quality treatment for 1" of rainfall over the added impervious area.

The method of BMP that will be used will be an infiltration trench. The infiltration trench filled with CA-7 stone will be wrapped with a filter fabric and is set in the low ground area within the perimeter of the security fence. The top of the infiltration trench will be covered with 6-8" of topsoil. A 4" underdrain with observation structures will be installed in and along the trench. A void ratio 0.35 will be used for the infiltration trench. Potential locations for the BMP have been shown in the Proposed Drainage Plan in Exhibit 10. BMP Summary table below shows the required volumes for each outlet.

BMP SUMMARY TABLE			
Outlet 1			
BMP Treatment Required From Panels (MN calculation)		2725	CF
Total required volume in Outlet 1		2725	CF
Provided Volume from BMP in Outlet 1		TO MATCH REQUIRED	
Outlet 2			
New impervious area (since 2002)		771	SF
New access road impervious area		12852	SF
New equipment pad impervious area		608	SF
Required Volume from impervious area (NOTE: Treat first inch of rain)		1186	CF
BMP Treatment Required From Panels (MN calculation)		6131	CF
Total required volume in Outlet 2		7317	CF
Provided Volume from BMP in Outlet 2		TO MATCH REQUIRED	

There is 1 depressional area within the footprint of the proposed solar array identified on the Existing Drainage Plan. Outlet 1 has a depressional area identified as Depression 1A. The depression is 1' deep based on the site contours. Further studies will be conducted once racking and array design has been advanced to a further stage and will be offsite with additional BMP infiltration trenches.

The depressional area calculations will consider the following:

- The edge of the solar panels in their lowest position must be at least 2 feet above the BFE or the maximum height of depressional flooding.
- Compensatory storage is provided at a 1:1 ratio.
- A 25% contingency added to the required compensatory storage volume should the layout of the solar array be modified in the future.

CHAPTER 3 FLOODPLAIN IMPACTS

The Flood Insurance Rate Map (FIRM) of Kane County, Illinois, and Incorporated Areas, map number 17089C0317H, effective date August 3, 2009, was reviewed to determine the location of regulatory floodplain within the study areas. The FIRM indicates that a 100-year regulatory floodplain is present in the parcel. Further studies will be conducted once racking and array design has been advanced to a further stage. The criteria of design will be the same as outlined above for depressional areas.

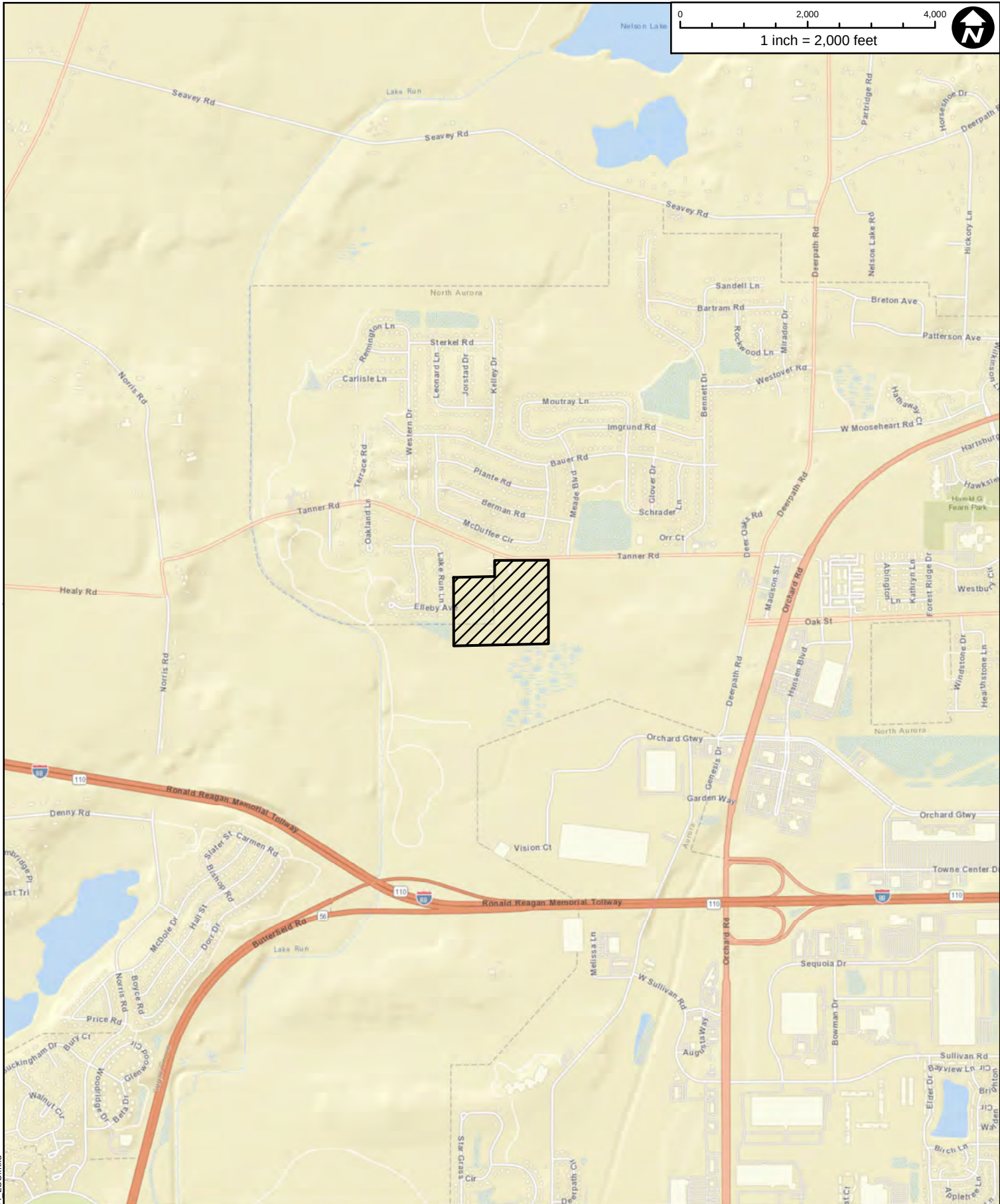
CHAPTER 4

SUMMARY

The proposed solar generating facility meets the requirements laid out in the Kane Stormwater Ordinance. BMP volume will be provided onsite via an infiltration trench in multiple locations. Compensatory storage volume will be provided in the infiltration trench.

APPENDIX

Exhibit 1
Location Map

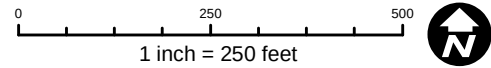


CLIENT: CATFISH RENEWABLE ENERGY, LLC		TITLE: LOCATION MAP		CBBEL # 26-0254 DATE: 6/4/2026	
 CHRISTOPHER B. BURKE Engineering, Ltd. 9575 W. Higgins Road, Suite 600, Rosemont, Illinois 60018 (847)823-0500		DSGN.		SCALE:	1" = 2,000'
		DWN.	KEK	USER:	KKOPIJA
		CHKD.	JMA	PLOT DATE:	6/4/2026
		FILE NAME:		260254_LOC	
EXH 1					

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Exhibit 2
National Wetland Inventory

NOTE: TAKEN FROM THE NATIONAL WETLAND INVENTORY(NWI), SUGAR GROVE QUADRANGLE(1983)



NO WETLAND MAPPED ON-SITE



CLIENT:	CATFISH RENEWABLE ENERGY, LLC	TITLE:	NATIONAL WETLAND INVENTORY		CBBEL # 26-0254	
					DATE: 6/4/2026	
 CHRISTOPHER B. BURKE Engineering, Ltd. 9575 W. Higgins Road, Suite 600, Rosemont, Illinois 60018 (847)823-0500			DSGN.		SCALE:	1" = 250'
			DWN.	KEK	USER:	KKOPIJA
			CHKD.	JMA	PLOT DATE:	6/4/2026
			FILE NAME:	260254_NWI		
EXH 2						

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Exhibit 3
Kane County Wetland Inventory



NOTE: TAKEN FROM THE KANE COUNTY WETLAND INVENTORY(KCWI), SUGAR GROVE TOWNSHIP(2008)

0 250 500

1 inch = 250 feet



Legend

HIGH FUNCTIONAL ADID WETLAND



CLIENT:

**CATFISH RENEWABLE
ENERGY, LLC**

TITLE:

KANE COUNTY WETLAND INVENTORY

CBBEL # 26-0254

DATE: 6/4/2026



CHRISTOPHER B. BURKE Engineering, Ltd.

9575 W. Higgins Road, Suite 600, Rosemont, Illinois 60018 (847)823-0500

DSGN.		SCALE:	1" = 250'
DWN.	KEK	USER:	KKOPIJA
CHKD.	JMA	PLOT DATE:	6/4/2026
FILE NAME:	260254_KCWI		

EXH 3

Exhibit 4
Soil Survey

NOTE: TAKEN FROM THE SOIL SURVEY OF KANE COUNTY, ILLINOIS(2025)

0 250 500

1 inch = 250 feet



LEGEND

- 103A - HOUGHTON MUCK, HYDRIC
- 152A - DRUMMER SILTY CLAY LOAM, HYDRIC
- 223B - VARNA SILT LOAM
- 531B - MARKHAM SILT LOAM



CLIENT:

CATFISH RENEWABLE
ENERGY, LLC

TITLE:

SOIL SURVEY

CBBEL # 26-0254

DATE: 6/4/2026

EXH 4



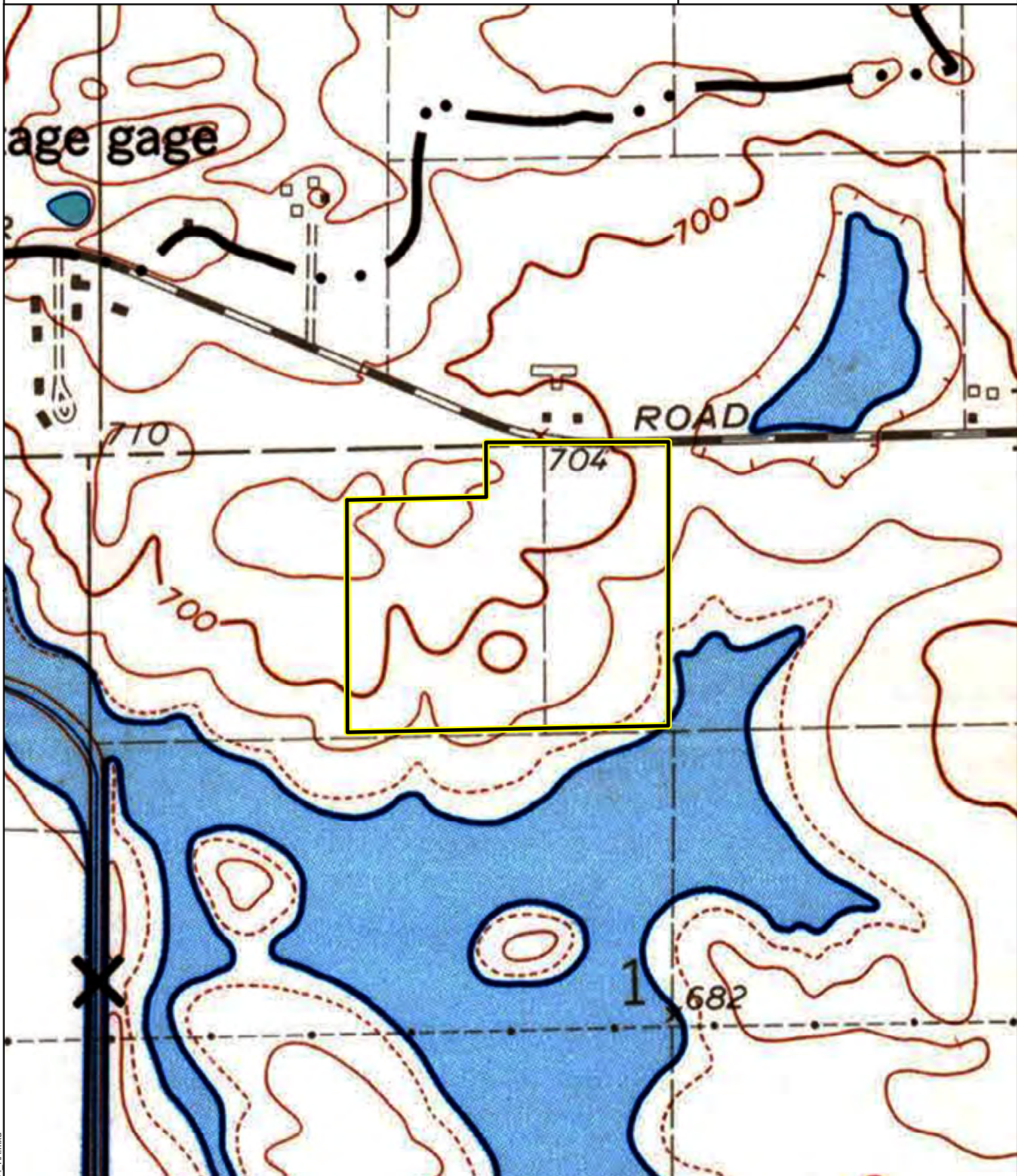
CHRISTOPHER B. BURKE Engineering, Ltd.

9575 W. Higgins Road, Suite 600, Rosemont, Illinois 60018 (847)823-0500

DSGN.		SCALE:	1" = 250'
DWN.	KEK	USER:	KKOPIJA
CHKD.	JMA	PLOT DATE:	6/4/2026
FILE NAME:	260254_SOILS		

Exhibit 5
Hydrological Atlas

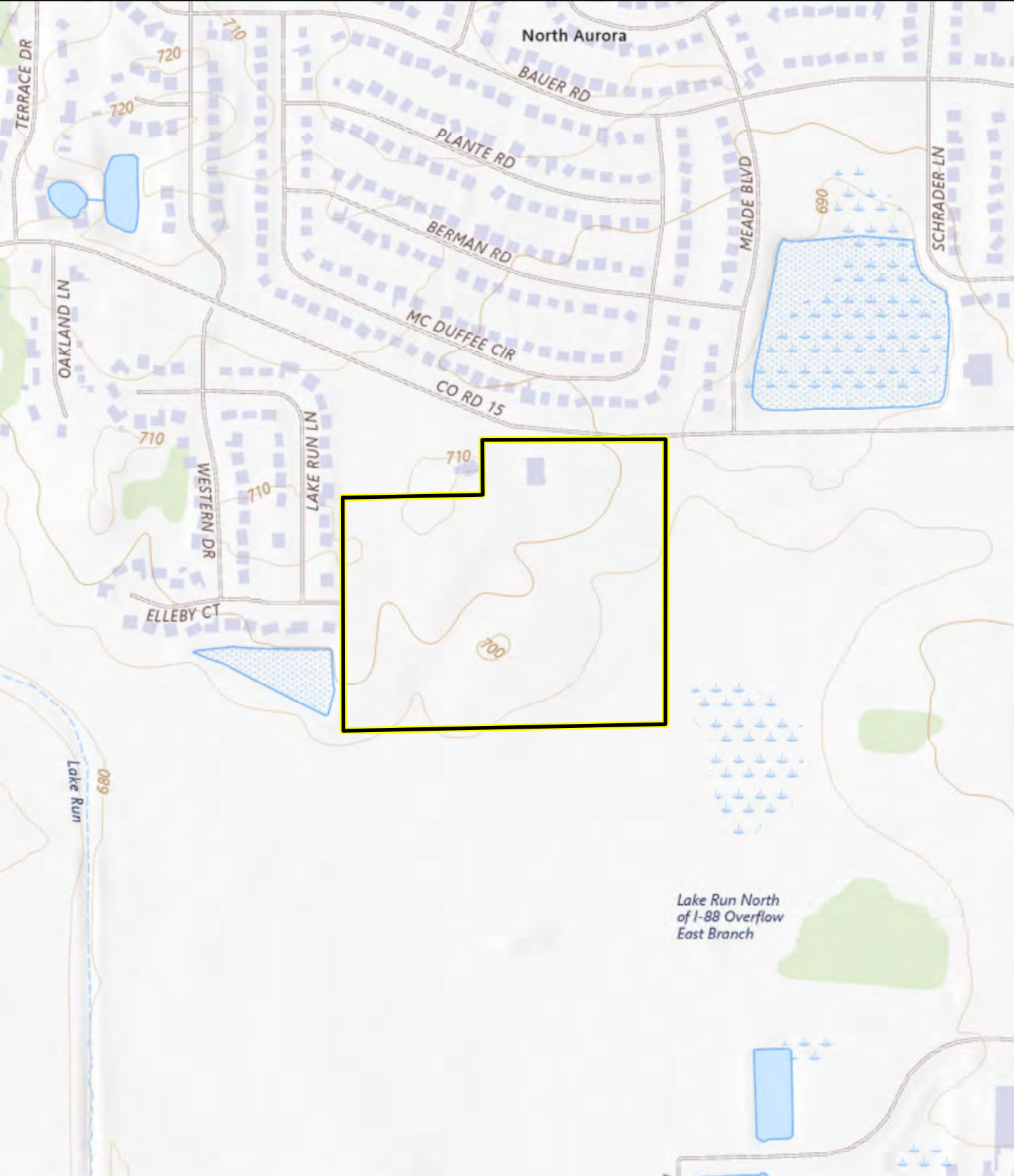




CLIENT: CATFISH RENEWABLE ENERGY, LLC		TITLE: HYDROLOGIC ATLAS		CBBEL # 26-0254	
				DATE: 6/4/2026	
 CHRISTOPHER B. BURKE Engineering, Ltd. 9575 W. Higgins Road, Suite 600, Rosemont, Illinois 60018 (847)823-0500		DSGN.		SCALE: 1" = 600'	
		DWN.		USER: KKOPJA	
		CHKD. JMA		PLOT DATE: 6/4/2026	
		FILE NAME: 260254_HA			
				EXH 5	

Exhibit 6
United States Geological Survey





CLIENT:

CATFISH RENEWABLE
ENERGY, LLC

TITLE:

UNITED STATES GEOLOGICAL SURVEY

CBBEL # 26-0254

DATE: 6/4/2026

CB

CHRISTOPHER B. BURKE Engineering, Ltd.

9575 W. Higgins Road, Suite 600, Rosemont, Illinois 60018 (847)823-0500

DSGN.			SCALE:	1" = 600'
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CHKD.	JMA		PLOT DATE:	6/4/2026
FILE NAME:	260254_USGS			

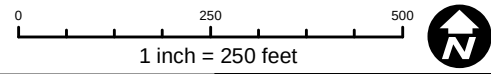
EXH 6

NAurora260254USGSExhibits260254_USGS.mxd

Exhibit 7
Flood Insurance Rate Map



NOTE: TAKEN FROM THE FLOOD INSURANCE RATE MAP(FIRM), KANE COUNTY AND INCORPORATED AREAS, ILLINOIS, MAP NUMBER 17089C0317H, EFFECTIVE DATE: AUGUST 3, 2009

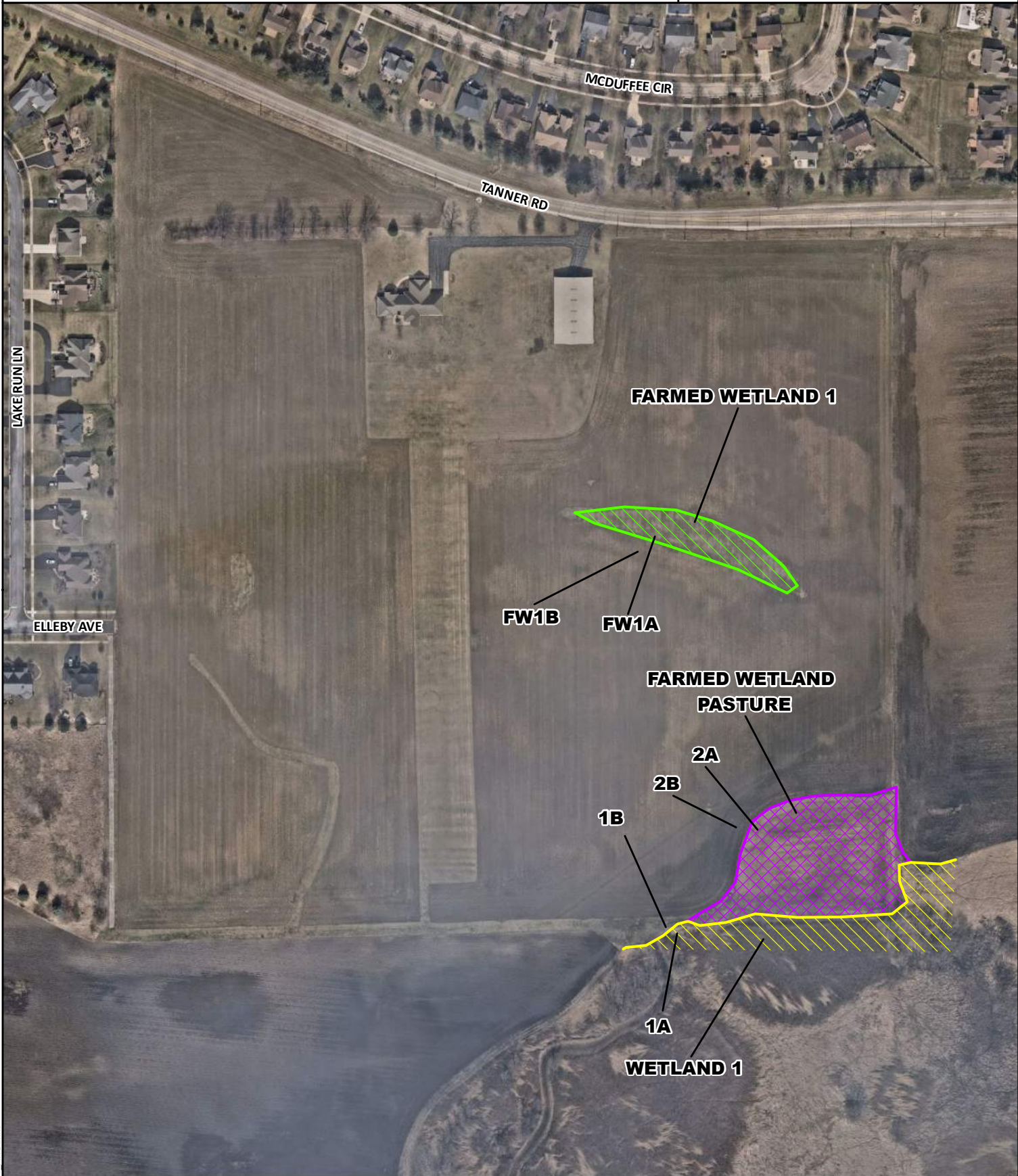


CLIENT:		TITLE:		CBBEL # 26-0254	
CATFISH RENEWABLE ENERGY, LLC		FLOOD INSURANCE RATE MAP		DATE: 6/4/2026	
	DSGN.			SCALE:	1" = 250'
	DWN. KEK			USER:	KKOPIJA
	CHKD. JMA			PLOT DATE:	6/4/2026
	FILE NAME:			260254_FIRM	
CHRISTOPHER B. BURKE Engineering, Ltd. 9575 W. Higgins Road, Suite 600, Rosemont, Illinois 60018 (847)823-0500					EXH 7

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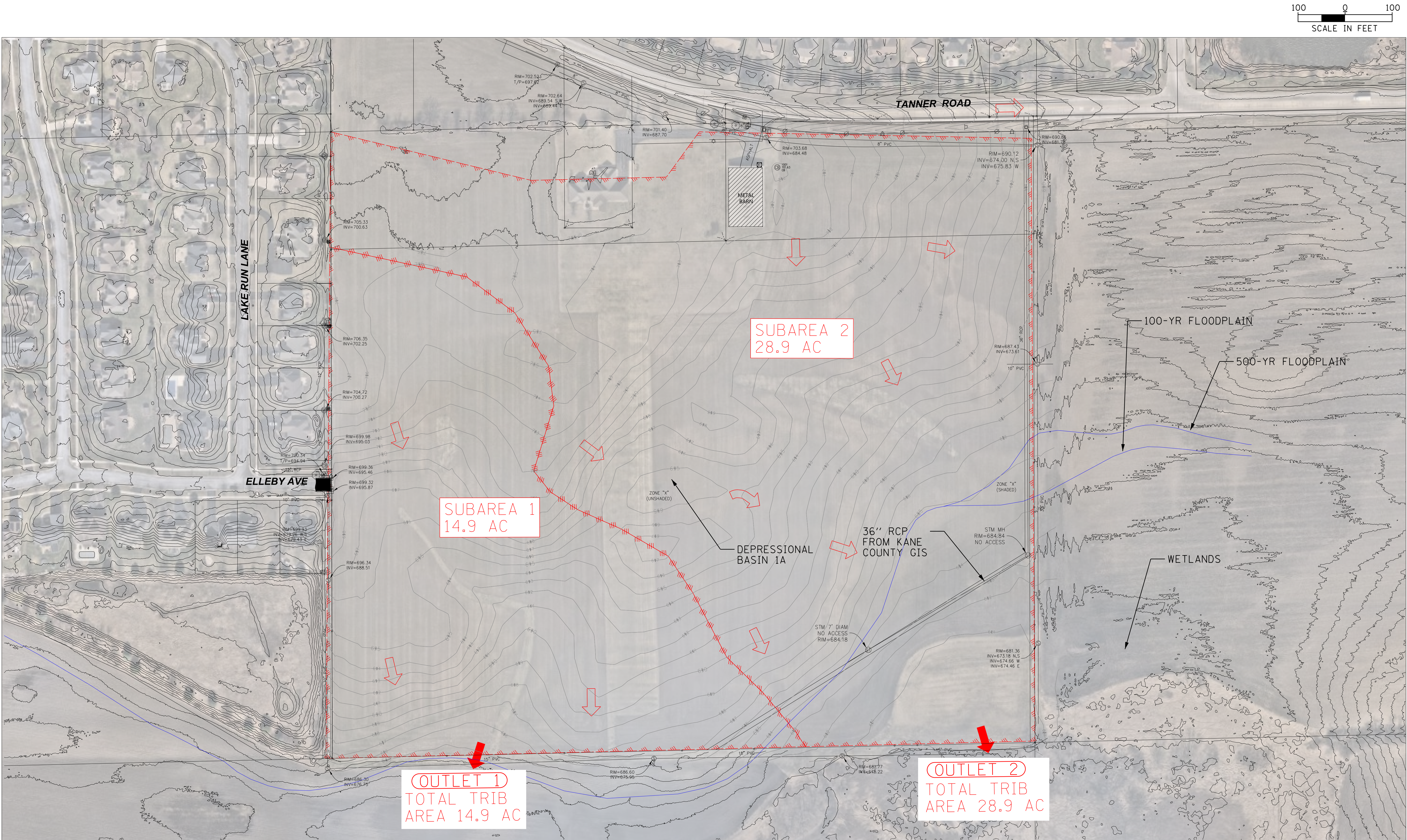
Exhibit 8
Approximate Wetland Delineation





CLIENT: CATFISH RENEWABLE ENERGY, LLC		TITLE: APPROXIMATE WETLAND DELINEATION		CBBEL # 26-0254	
				DATE: 6/26/2026	
 CHRISTOPHER B. BURKE Engineering, Ltd. 9575 W. Higgins Road, Suite 600, Rosemont, Illinois 60018 (847)823-0500		DSGN.		SCALE:	1" = 250'
		DWN.	KEK	USER:	KKOPIJA
		CHKD.	JMA	PLOT DATE:	6/26/2026
		FILE NAME:	260254_AWD		
					EXH 8

Exhibit 9
Existing Drainage Plan



CHRISTOPHER B. BURKE ENGINEERING, LTD.
9575 W. Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

CLIENT:
CATFISH RENEWABLE ENERGY LLC

NO.	DATE	NATURE OF REVISION	CHKD.	MODEL:
1	7/16/2026	Initial Design		Default
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TITLE:
**TANNER ROAD SOLAR
EXISTING DRAINAGE PLAN**

PROJ. NO. 260254.00001
DATE: 7/1/2026
SHEET 1 OF 1
DRAWING NO.
EXHIBIT 9

Exhibit 10
Proposed Drainage Plan



Calculation 1

BMP Volume for Impervious Areas



BMP Volume Required

Outlet 1

Remaining Water Volume to be Treated Per Panel	1.23	Cu Ft
Total Panels	2215	Each
BMP Treatment Required From Panels (MN calculation)	2725	Cu Ft
 Total BMP Required Volume from Panels for Outlet 1	 2725	 Cu Ft

Volume Required	2725	Cu Ft
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Outlet 2

Access Road and Misc

New building impervious area (since Jan 1 2002)	0	Sq Ft
New access road impervious area (part of this application)	12852	Sq Ft
New equipment pad impervious area (part of this application)	2990	Sq Ft
 Total impervious area	 15842	 Sq Ft

Volume Required from added impervious areas	1320	Cu Ft
--	-------------	--------------

Remaining Water Volume to be Treated Per Panel	1.23	Cu Ft
Total Panels	4985	Each
BMP Treatment Required From Panels (MN calculation)	6131	Cu Ft

Total BMP Required Volume from Panels for Outlet 2	6131	Cu Ft
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Volume required for depressional comp	-	Cu Ft
25% Contingency for Volume required for depressional comp	-	Cu Ft

Volume Required	7452	Cu Ft
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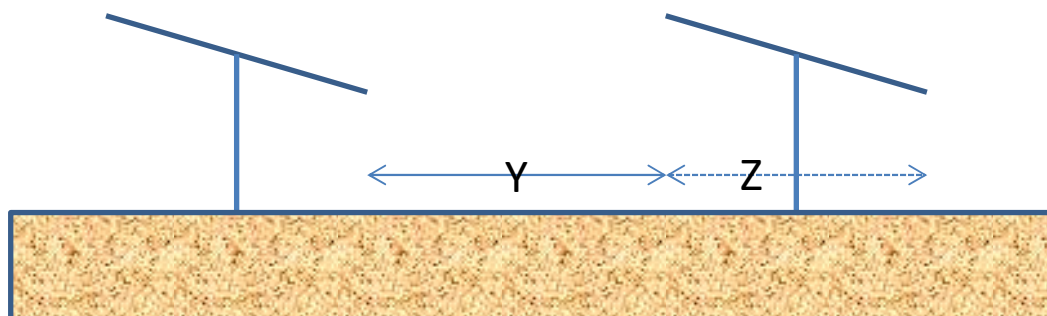
Calculation 2

BMP Volume per Minnesota Calculation

This spreadsheet makes calculations for an individual solar panel.

Enter values in blue cells		
Soil	B	
I/P ratio	0.848	
Term	Value	Units
Pervious area	39.40	square feet
Impervious area (area of solar panel)	33.42	square feet
Runoff depth from pervious areas	5.70	inches
Redirected runoff depth from solar panel (called average annual runoff depth)	7.64	inches
Runoff depth from solar panel	22.50	inches
Performance goal	1.00	inches
SUMMARY		
Pre-disconnection		
Runoff from impervious	63	ft3
Runoff from pervious	19	ft3
Total runoff	81	ft3
Post-disconnection		
Total runoff	46	ft3
Total runoff reduced	35	ft3
Runoff from pervious	19	ft3
Runoff from impervious	28	ft3
Adjusted impervious	14.728	square feet
Performance Goal Summary		
Performance goal	2.78	ft3
BMP volume credit (BMP _{volume credit})	1.56	ft3
% of performance goal achieved	55.9	%
Remaining water quality volume to be treated (per panel)	1.23	ft3

Pervious area = $(Y + Z) * W$; where W is the width of the solar panel and Z is the average horizontal distance of
 Impervious area = $Z * W$; where W is the width of the solar panel and Z is the average horizontal distance of



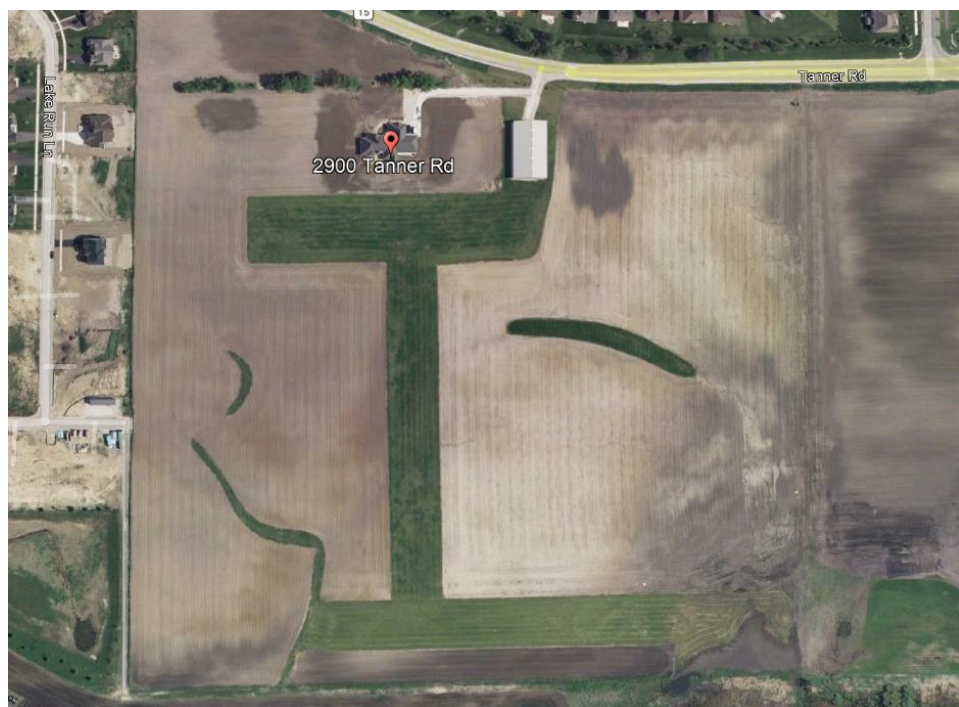
ATTACHMENTS



Historical aerial images: 1998



Historical aerial images: 2002



Historical aerial images: 2008

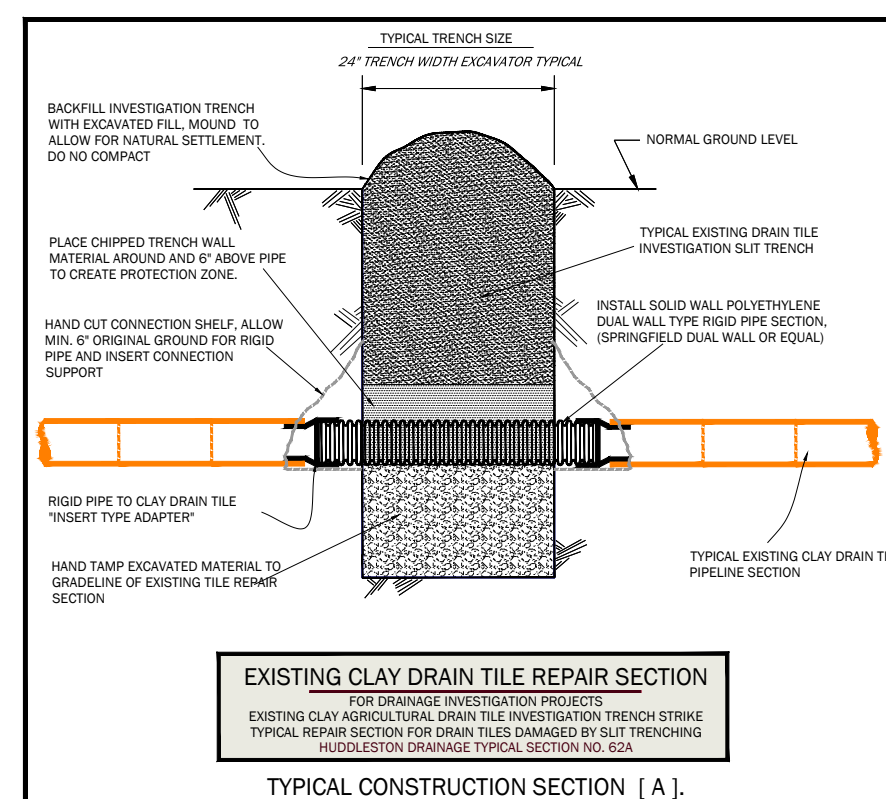


Historical aerial images: 2025

Tanner Road Solar
Prepared for: Catfish Renewable Energy LLC.
Section no. 1, Blackberry Twp., Kane Co., IL

Tanner Road Solar

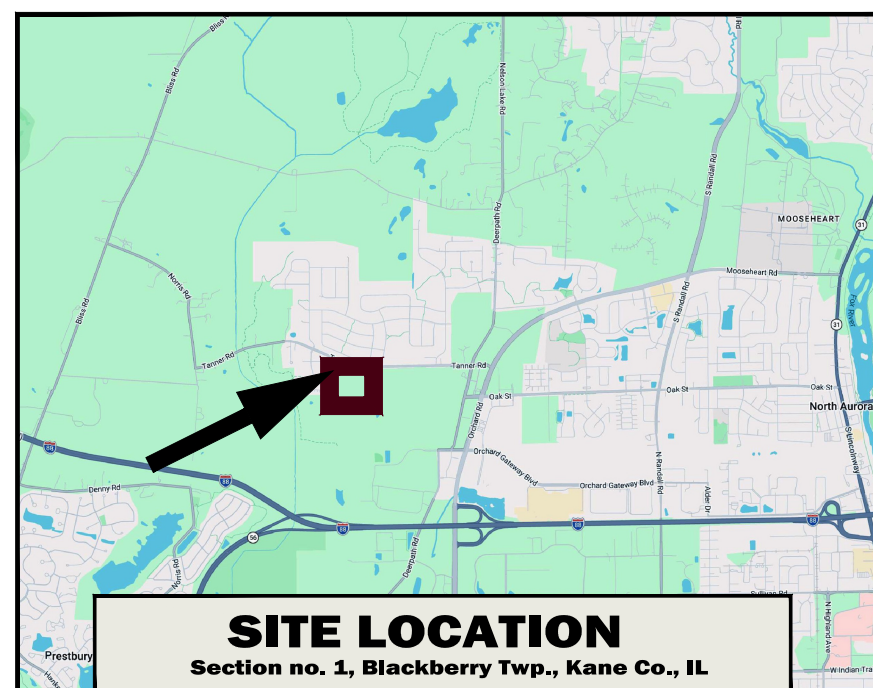
DESCRIPTION CHART NO. 1A : INVESTIGATION SLIT TRENCH LOCATIONS

[illegible][illegible]

THESE SYMBOLS REPRESENT SURVEY DATA POINTS WHICH HAVE BEEN STAKED IN THE FIELD FOR THE SPECIFIC PURPOSE OF ELECTRONIC LOCATION AND ELEVATION DETERMINATION BY THE PROJECT SURVEYOR.

THESE DATA POINTS CONSIST OF A 2" X 2" GROUND NAIL AND A 3'-0" ON-LINE SURVEY DATA POINT SIGN WHICH INCLUDES DATA POINT IDENTIFICATION NUMBER, SEPARATION MEASUREMENT FROM NAIL TO PIPE INVERT, AND PIPE SIZE.

ALL EXISTING DRAIN TILE ROUTES HAVE BEEN FIELD STAKED WITH "EXISTING DRAIN TILE" PIN FLAGS AT 50' INTERVALS AND DOUBLE FLAGS AT INTERSECTIONS.



MAP LEGEND :

◀◀◀DRAIN◀◀◀

EXISTING DRAIN LINE FLOW DIRECTION

EX. POLYETHYLENE MAINLINE OR SYSTEM PART

EX. CLAY DRAIN TILE MAINLINE OR SYSTEM PARTS

EX. CONCRETE OR INSULATION SYSTEM PART

EXISTING DRAIN TILE CONTINUES TO UPLAND WASTEWATER

EXISTING DRAIN TILE OUTFALL TO SURFACE

EXISTING DRAIN TILE (2) CATCH BASIN

EXIST. DRAIN TILE (1) LOCATED END, (2) ASSUMED END

EXISTING DRAIN TILE CONTINUES TO OFF-SITE DRAIN TILE SYSTEM

EXISTING DRAIN TILE ABANDONED, FLOW SURCHARGE TO SURFACE

EXISTING DRAIN TILE ABANDONED BY SPECIFICATION AND ASSUMING

EXISTING DRAIN TILE FAILURE, (NOT FUNCTIONAL)

EXISTING DRAIN TILE "BLOWOUT" OR FAILURE

HAND PROBE OR ELECTRIC SCANS CAN BE USED TO LOCATE

INVESTIGATION SPLIT TRICH FOR INVESTIGATION

SPECIFIC PIT EXCAVATION FOR INVESTIGATION

SURVEY DATA POINTS

REPORT IDENTIFICATION NUMBER

REPORT LEGEND:

ID NO.	TYPE OF EXCAVATION FOR SPECIFIC DRAIN LINE INVESTIGATION
SZ, SIZE	DRAIN LINE INTERNAL DIAMETER IN INCHES
MATERIAL / QUALITY	TYPE OF THE MATERIALS, PIPE QUALITY GOOD, FAIR AND POOR.
FL %	PERCENTAGE OF THE DIAMETER OCCUPIED BY ACTIVE SLOTT.
SILT %	PERCENTAGE OF THE DIAMETER OCCUPIED BY SLOTT.
FLOW	PERCENTAGE OF THE DIAMETER OCCUPIED BY RESTRICTIVE SILL
	ADVERSELY BLOCKED OR FULLY BLOCKAGE, NO FLOW PATTERN
DEPTH	MEASUREMENT FROM EXISTING GROUND LEVEL TO PIPE INVERT
(GENERAL NOTES)	
MAINLINE TIE	TRUNK LINE OR MUTUAL DRAIN, COLLECTOR OF SUB-SYSTEM.
SUB-MAIN LINE	SECONDARY TRUNK LINE OR RANDOM SYSTEM COLLECTOR.
LATERAL	BRANCH LINE SERVING INDIVIDUAL BUILDING.
"BLOWOUT"	EXISTING SYSTEM PIPE FAILURE OR RESTRICTION.
TRUNK LINE ENDS	MAINLINE, SUB-MAIN OR LATERAL PLANNED TERMINATION.
SILT DEPTH	DEPTH OF THE SLOTT DEPTH.

SPECIAL NOTES:

- * ALL EXISTING AGRICULTURAL DRAIN TIES LOCATED DURING THIS INVESTIGATION PLAN HAVE BEEN IDENTIFIED ON THIS PLAN AND FIELD STAKED AT < 50' INTERVALS. IN SOME LOCATIONS CERTAIN EXISTING LOCAL DRAIN TIE SECTIONS MAY BE SPECULATED AND NOT POSITIVELY ASSURED. THESE ARE NOT TO BE DELETED OR REMOVED.
- * ALL EXISTING DRAIN TIES DAMAGED DURING THE INVESTIGATION PROCESS SHALL BE REPAIRING TO ORIGINAL CONDITION OR BETTER.
- * ALL EXISTING DRAIN TIES SHALL BE MAINTAINED TO MEET THE MINIMUM DESIGN CONSERVATION SERVICE STANDARDS FOR DRAIN TIE INSTALLATION AND REPAIR.

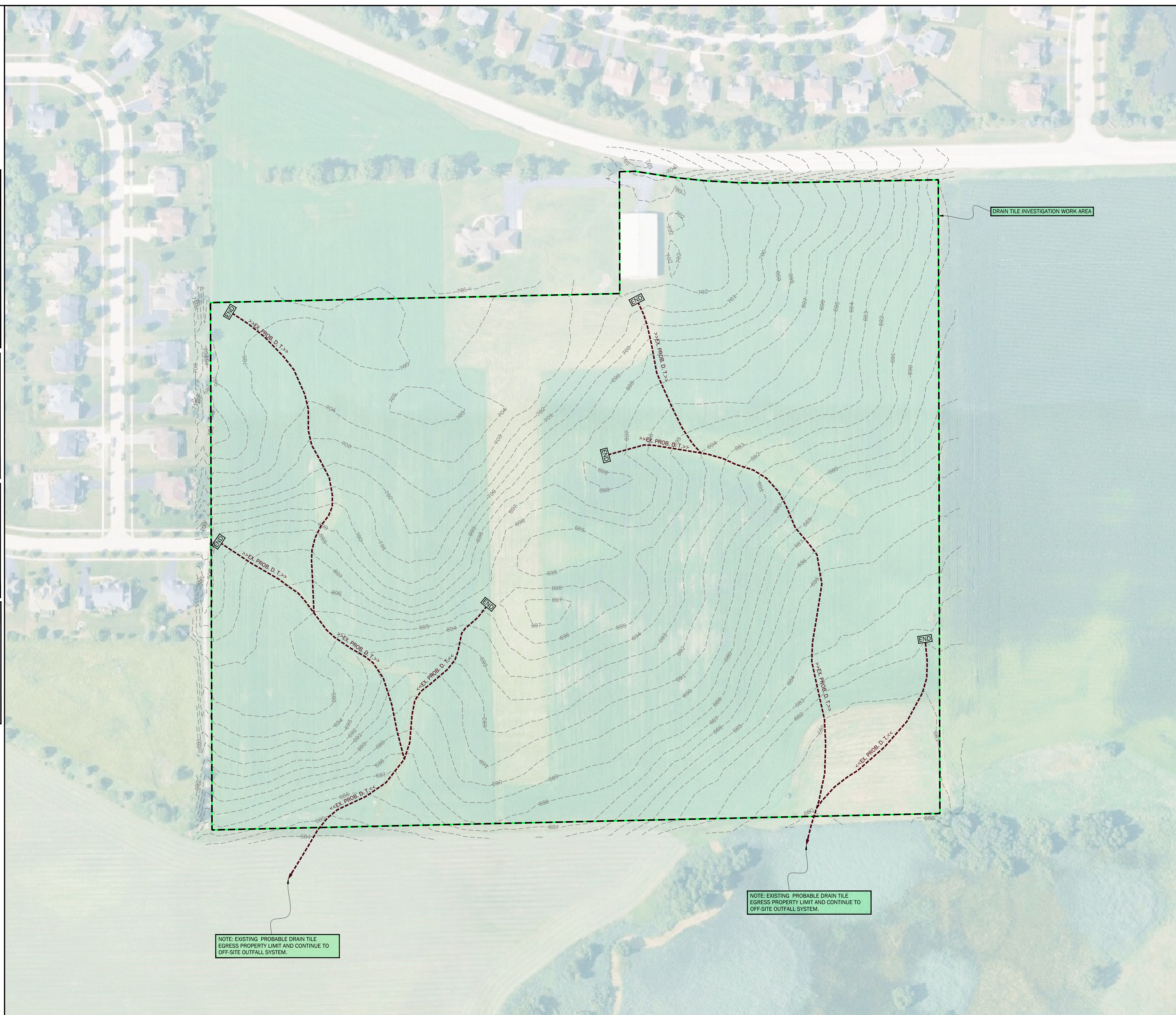
(HULLDOLETON DRAINAGE (62A) TYPICAL STANDARD #1)

THE DRAIN TIE LOCATION DIMENSIONS HAVE BEEN SURVEYED BY AGRICULTURAL GRADE GPS SURVEY SYSTEMS AND INCLUDE SUB INCH MEASURE ACCURACY. ALL LOCATIONS PERTINENT TO FINAL DESIGN SHALL BE VERIFIED BY THE PROJECT SURVEYOR.

THE DRAIN TIE LOCATION DIMENSIONS SHALL BE USED TO LAYOUT EXISTING DRAIN TIE MAINLINE SYSTEMS WITH ANY ADDITIONAL PRIORITY ON DRAIN TIES WHICH MAY SERVICE OTHER LOCATIONS.

THIS DRAIN TIE INVESTIGATION REPORT SHALL BE FILED WITH HULLDOLETON DRAINAGE LOCAL DRAINAGE CO. AND WILL BE REPRODUCED AND DISBURSED ONLY BY PERMISSION OF THE DRAINAGE CO.

TOM HUDDLESTON, HUDDLESTON-McBRIDE DRAINAGE CO.



JUNE 26, 2026

WETLAND ASSESSMENT REPORT

CATFISH RENEWABLE ENERGY, LLC

TANNER ROAD SOLAR

NORTH AURORA, KANE COUNTY, ILLINOIS

CBBEL PROJECT No. 260254



CHRISTOPHER B. BURKE ENGINEERING, LTD.

9575 WEST HIGGINS ROAD, SUITE 600
Rosemont, IL 60018

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EXECUTIVE SUMMARY

On June 19, 2026, Christopher B. Burke Engineering, Ltd. (CBBEL) completed a field investigation of the Catfish Renewable Energy, LLC – Tanner Road Solar study area to determine the on-site wetland boundaries. This report was prepared to document our findings. One wetland, one farmed wetland, and one farmed wetland pasture were identified within the study area using the U.S. Army Corps of Engineers Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (August 2010). The wetland boundaries were flagged and field located with GPS.

An aerial photograph depicting the boundaries is included as Exhibit 8 in Appendix A. The floristic inventories for the wetlands are included in Appendix B. Representative photographs are included in Appendix C. Information collected from the field investigation is listed in the USACE Data Forms found in Appendix D.

Wetland Summary Table:

Delineated Area	Data Point	Community Type	Native Mean C-Value	Native FQAI
Wetland 1	1A	PEM	2.55	8.44
Farmed Wetland 1	FW1A	Agricultural	0.00	0.00
Farmed Wetland Pasture	2A	Mowed Turf	0.00	0.00

METHODOLOGY

The Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (August 2010), identifies the mandatory technical criteria for wetland identification. The three essential characteristics of a jurisdictional wetland are hydrophytic vegetation, hydric soils and wetland hydrology as described below:

Hydrophytic Vegetation: The hydrophytic vegetation criterion is based on a separation of plants into five basic groups:

- (1) Obligate wetland plants (OBL) almost always occur (estimated probability >99%) in wetlands under natural conditions;
- (2) Facultative wetland plants (FACW) usually occur in wetlands (estimated probability 67-99%), but occasionally are found in non-wetlands;
- (3) Facultative plants (FAC) are equally likely to occur in wetlands or non-wetlands (estimated probability 34-66%);
- (4) Facultative upland plants (FACU) usually occur in non-wetlands (estimated probability 67-99%), but occasionally are found in wetlands; and

(5) Obligate upland plants (UPL) almost always occur (estimated probability >99%) in non-wetlands under natural conditions.

Four procedures completed in the following order are used to determine if hydrophytic vegetation is present:

- 1) Rapid Test: The Rapid Test for hydrophytic vegetation is met if all dominant species across all strata are OBL or FACW, or a combination of the two based on a visual assessment.
- 2) Dominance Test: Using the 50/20 Rule, if greater than 50% of the plants present are FAC, FACW, or OBL, the subject area meets the hydrophytic vegetation criterion.
- 3) Prevalence Index: Each plant species in a sampling plot is assigned a numeric value (OBL=1; FACW=2; FAC=3; FACU=4; UPL=5). Based on the sampling data, the absolute cover is calculated for each species in each stratum and using the specified formula, if the Prevalence Index is 3 or less, hydrophytic vegetation is present.
- 4) Morphological Adaptations: Various species may develop physical characteristics after growing in wetland areas such as multi-stemmed trunks, shallow roots and buttressed stems. Hydrophytic vegetation is present if an adaptation is observed in more than 50% of FACU species growing in an area that contains hydric soil and wetland hydrology.

Hydric Soils: Hydric soils are defined in the manual as "soils that are saturated, flooded or ponded long enough during the growing season to develop anaerobic conditions in the upper part." Field indicators of hydric soil are found in the NTCHS Field Indicators of Hydric Soils in the United States (USDA Natural Resources Conservation Service 2006b or current version).

Wetland Hydrology: The wetland hydrology criterion is often the most difficult to determine. Typically, the presence of water for a portion of the growing season creates anaerobic conditions. Anaerobic conditions lead to the prevalence of wetland plants. Morphological adaptations of plants, drift lines and watermarks are examples of wetland hydrology field indicators.

Waters of the United States: Waters of the United States (waters) are defined as the ordinary high-water mark (OHWM) in non-tidal waters, provided the jurisdiction is not extended by the presence of wetlands. The OHWM refers to the line established by the fluctuations of water. These fluctuations can be indicated by physical characteristics such as a clear, natural line impressed on the bank, shelving, changes in the character of the soil, destruction of terrestrial vegetation, or the presence of litter and debris. Waters are typically not vegetated. They typically are located below the Ordinary High Water Mark (OHWM) of a creek, stream, river or lake. There are on occasions exceptions to this generalization.

RESULTS AND DISCUSSION

STUDY AREA

As shown on Exhibit 1 in Appendix A, the study area is located south of Tanner Road, west of Deerpath Road, east of Lake Run Lane, and north of Interstate 88 in North Aurora, Kane County, Illinois. Geographically, the study area is in Section 1, Township 38 North, and Range 7, East of the 3rd Principal Meridian (Lat. 41.808344°, Long. -88.388996°).

Existing Site Conditions

The study area consists primarily of an agricultural alfalfa field, with a residential property and an associated mowed turf lawn located in the central portion of the project area, with one farmed wetland, one emergent wetland, and one farmed wetland pasture on-site. The site is bordered by agricultural land to the south and east, as well as residential property to the north and west.

Identified Wetlands

Wetland 1

Wetland 1, characterized by data point 1A, is an emergent wetland complex that extends south beyond the study area.

Vegetation: At the time of the field investigation, the wetland was dominated by low-quality emergent vegetation and shrubs such as common reed (*Phragmites australis*), reed canary grass (*Phalaris arundinacea*), and sandbar willow (*Salix interior*). The floristic inventory for Wetland 1 is in Appendix B, and the Midwest Region Data Forms are in Appendix D.

Hydrology: At the time of the field visit, positive wetland hydrology was indicated by 2 inches of standing water, a high water table, saturated soils, inundation on aerial imagery, water-stained leaves, drainage patterns, geomorphic position, and the FAC-Neutral test.

Soils: Soils within the wetland are mapped as Houghton muck and Drummer silty clay loam, both poorly drained hydric soils. Field characteristics confirmed hydric soil conditions.

Farmed Wetland 1

Farmed Wetland 1, characterized by data point FW1A, is a farmed wetland located in the western portion of the study area.

Vegetation: At the time of the field investigation, the wetland was dominated by alfalfa (*Medicago sativa*) and Kentucky bluegrass (*Poa pratensis*). The floristic inventory for Farmed Wetland 1 is in Appendix B, and the Midwest Region Data Forms are in Appendix D.

Hydrology: At the time of the field visit, positive wetland hydrology was indicated by saturation on aerial imagery, stunted plant growth, and geomorphic position.

Soils: Soils within the farmed wetland are mapped as Markham silt loam, a non-hydric soil. However, field characteristics confirmed hydric soil conditions.

Farmed Wetland Pasture

Farmed Wetland Pasture, characterized by data point 2A, is an unfarmed area of mowed turfgrass located in the southeast corner of the project area.

Vegetation: At the time of the field investigation, the wetland was dominated by Kentucky bluegrass (*Poa pratensis*). The floristic inventory for Farmed Wetland Pasture is in Appendix B, and the Midwest Region Data Forms are in Appendix D.

Hydrology: At the time of the field visit, positive wetland hydrology was indicated by saturation on aerial imagery and the FAC-Neutral test.

Soils: Soils within the farmed wetland pasture are mapped as Drummer silty clay loam, a hydric soil. Field characteristics confirmed hydric soil conditions.

REFERENCE MATERIALS

The following reference materials were reviewed and used to assist in the wetland field reconnaissance. They are included as Exhibits 1-7 under Appendix A.

LOCATION MAP

As shown on Exhibit 1 in Appendix A, the study area is located south of Tanner Road, west of Deerpath Road, east of Lake Run Lane, and north of Interstate 88 in North Aurora, Kane County, Illinois. Geographically, the study area is in Section 1, Township 38 North, and Range 7, East of the 3rd Principal Meridian (Lat. 41.808344°, Long. -88.388996°).

NATIONAL WETLAND INVENTORY

The National Wetland Inventory (NWI), Sugar Grove Quadrangle (1983), indicates wetland is not mapped within the study area (Exhibit 2). The NWI serves only as a large-scale guide and actual wetland locations and types often vary from that mapped.

KANE COUNTY WETLAND INVENTORY

The Kane County Wetland Inventory (DCWI), Sugar Grove Township, indicates *High Functional ADID Wetland* is mapped within the study area (Exhibit 3). As with the NWI, the KCWI serves only as a large-scale guide and actual wetland locations and types often vary from that mapped.

SOIL SURVEY

The Soil Survey of Kane County, Illinois was reviewed to determine the location of hydric soils within the study area (Exhibit 4). The following soil types are mapped within the study area:

103A	-	Houghton muck	-	Hydric
152A	-	Drummer silty clay loam	-	Hydric
223B	-	Varna silt loam		
531B	-	Markham silt loam		

HYDROLOGIC ATLAS

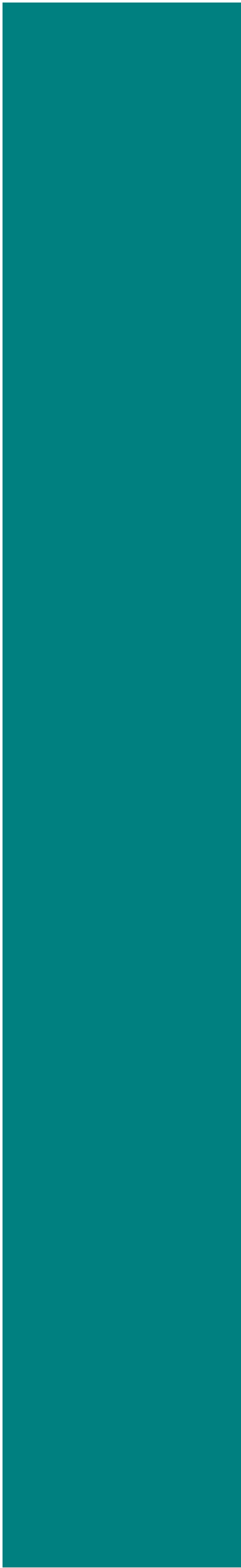
The Hydrologic Atlas (HA), Sugar Grove Quadrangle (1964), was reviewed to determine historical onsite drainage patterns (Exhibit 5). The HA indicates that waters located on site historically drain south into the on-site wetland.

UNITED STATES GEOLOGICAL SURVEY

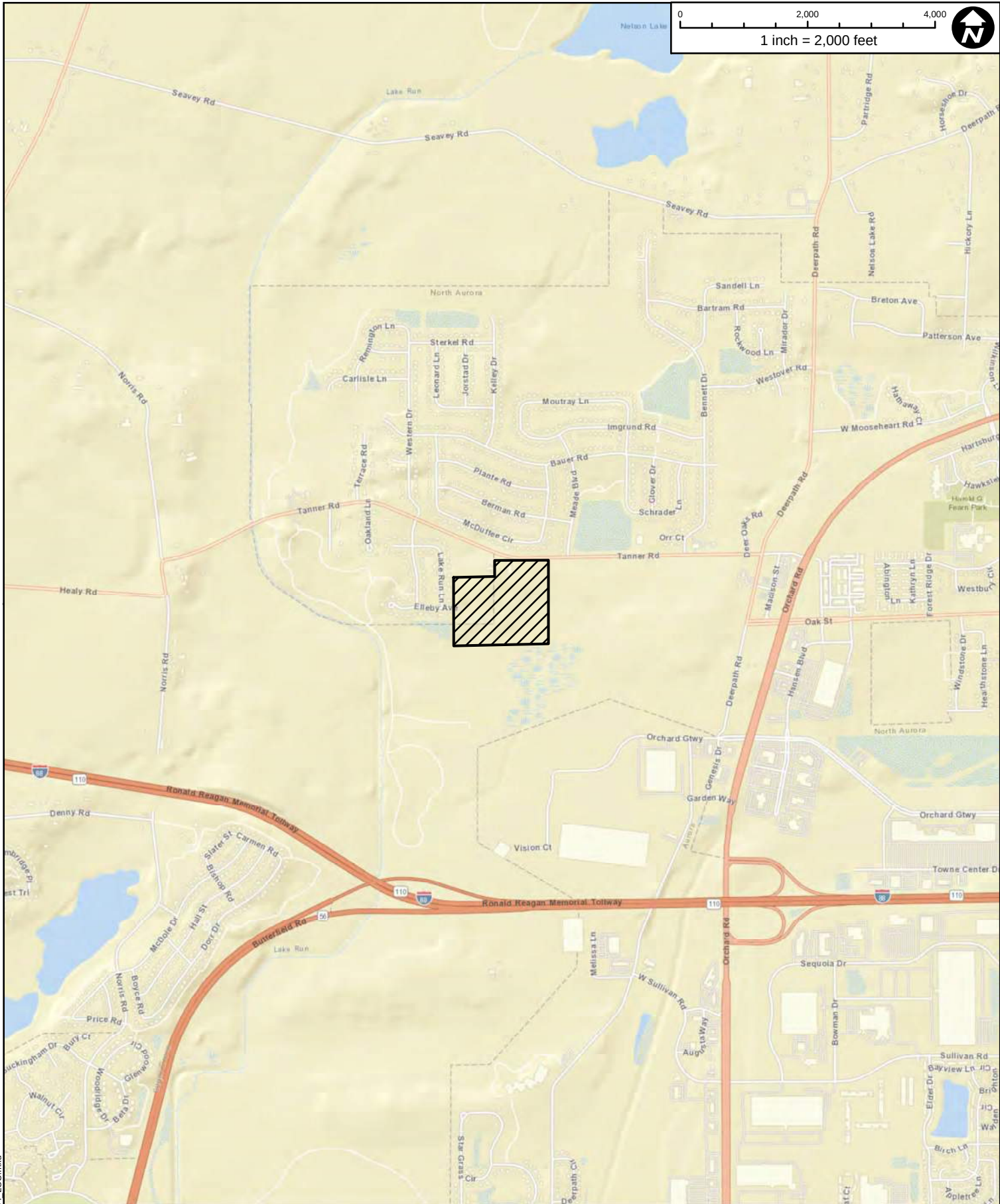
The United States Geological Survey (USGS), Sugar Grove Quadrangle (2025), was reviewed to determine historic local drainage patterns (Exhibit 6). The USGS indicates that surface runoff from the study area drains south into the on-site wetlands.

FLOOD INSURANCE RATE MAP

The Flood Insurance Rate Map (FIRM) of Kane County, Illinois and Incorporated Areas (Map Number 17089C0317H) was reviewed to determine the location of regulatory floodplain within the study area (Exhibit 7). The FIRM indicates 100-year regulatory floodplain is mapped within the study area.



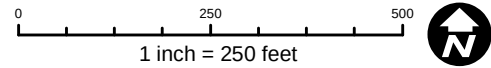
APPENDIX A – EXHIBITS



CLIENT:		TITLE:		CBBEL # 26-0254	
CATFISH RENEWABLE ENERGY, LLC		LOCATION MAP		DATE: 6/4/2026	
 CHRISTOPHER B. BURKE Engineering, Ltd. 9575 W. Higgins Road, Suite 600, Rosemont, Illinois 60018 (847)823-0500		DSGN.		SCALE:	1" = 2,000'
		DWN.	KEK	USER:	KKOPIJA
		CHKD.	JMA	PLOT DATE:	6/4/2026
		FILE NAME:		260254_LOC	
EXH 1					

NAurora260254GISExhibits260254_LOC.mxd

NOTE: TAKEN FROM THE NATIONAL WETLAND INVENTORY(NWI), SUGAR GROVE QUADRANGLE(1983)



NO WETLAND MAPPED ON-SITE



CLIENT:	CATFISH RENEWABLE ENERGY, LLC	TITLE:	NATIONAL WETLAND INVENTORY		CBBEL # 26-0254	
					DATE: 6/4/2026	
 CHRISTOPHER B. BURKE Engineering, Ltd. 9575 W. Higgins Road, Suite 600, Rosemont, Illinois 60018 (847)823-0500			DSGN.		SCALE:	1" = 250'
			DWN.	KEK	USER:	KKOPIJA
			CHKD.	JMA	PLOT DATE:	6/4/2026
			FILE NAME:	260254_NWI		
EXH 2						

N:\Aural\260254\GIS\Exhibits\260254_NWI.mxd

NOTE: TAKEN FROM THE KANE COUNTY WETLAND INVENTORY(KCWI), SUGAR GROVE TOWNSHIP(2008)

0 250 500

1 inch = 250 feet



Legend

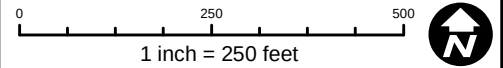
HIGH FUNCTIONAL ADID WETLAND



CLIENT:		TITLE:		CBBEL # 26-0254	
CATFISH RENEWABLE ENERGY, LLC		KANE COUNTY WETLAND INVENTORY		DATE: 6/4/2026	
 CHRISTOPHER B. BURKE Engineering, Ltd. 9575 W. Higgins Road, Suite 600, Rosemont, Illinois 60018 (847)823-0500		DSGN.		SCALE:	1" = 250'
		DWN.	KEK	USER:	KKOPIJA
		CHKD.	JMA	PLOT DATE:	6/4/2026
		FILE NAME:	260254_KCWI		
EXH 3					

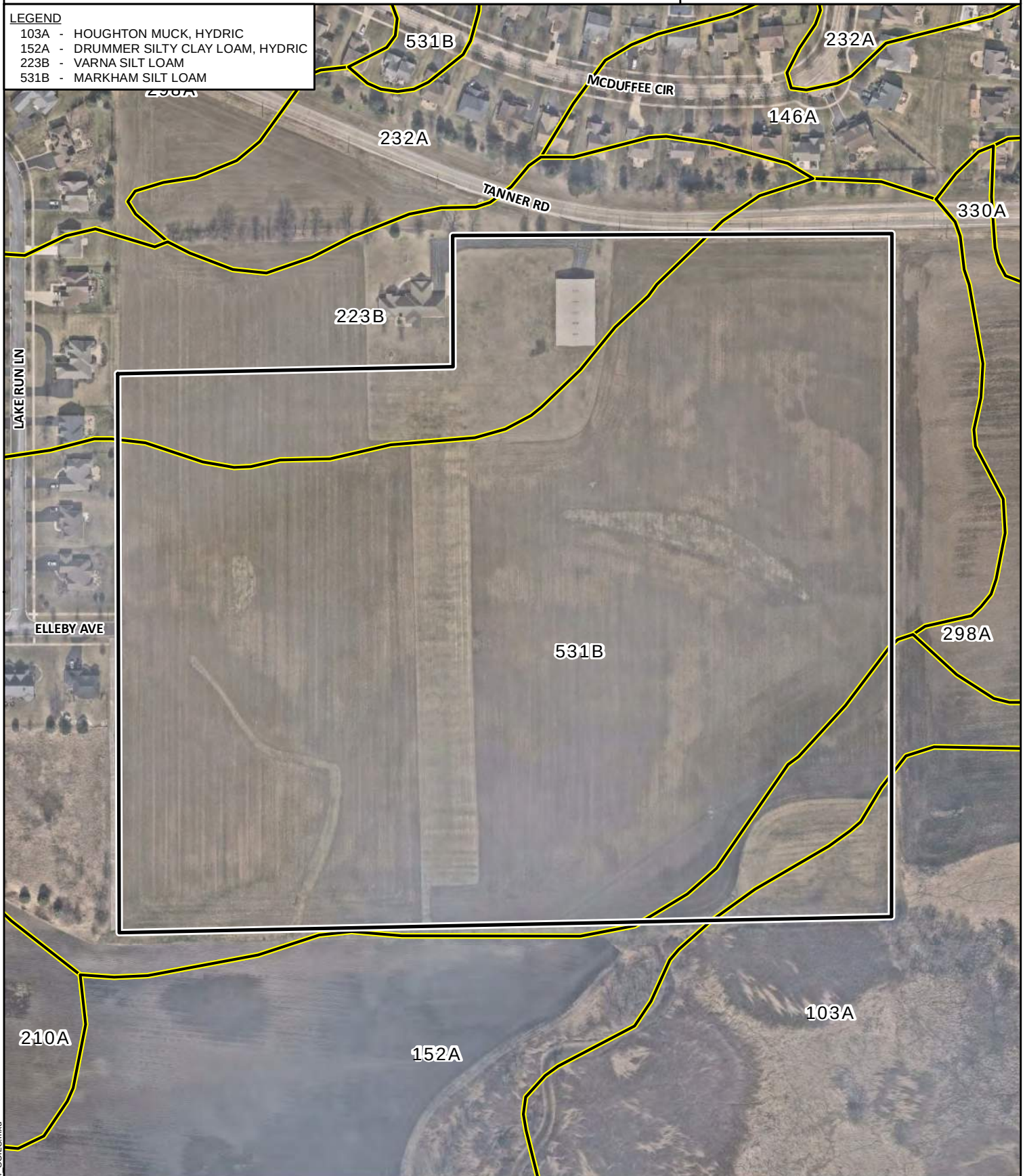
N:\Aural\260254\GIS\Exhibits\260254_KCWI.mxd

NOTE: TAKEN FROM THE SOIL SURVEY OF KANE COUNTY, ILLINOIS(2025)



LEGEND

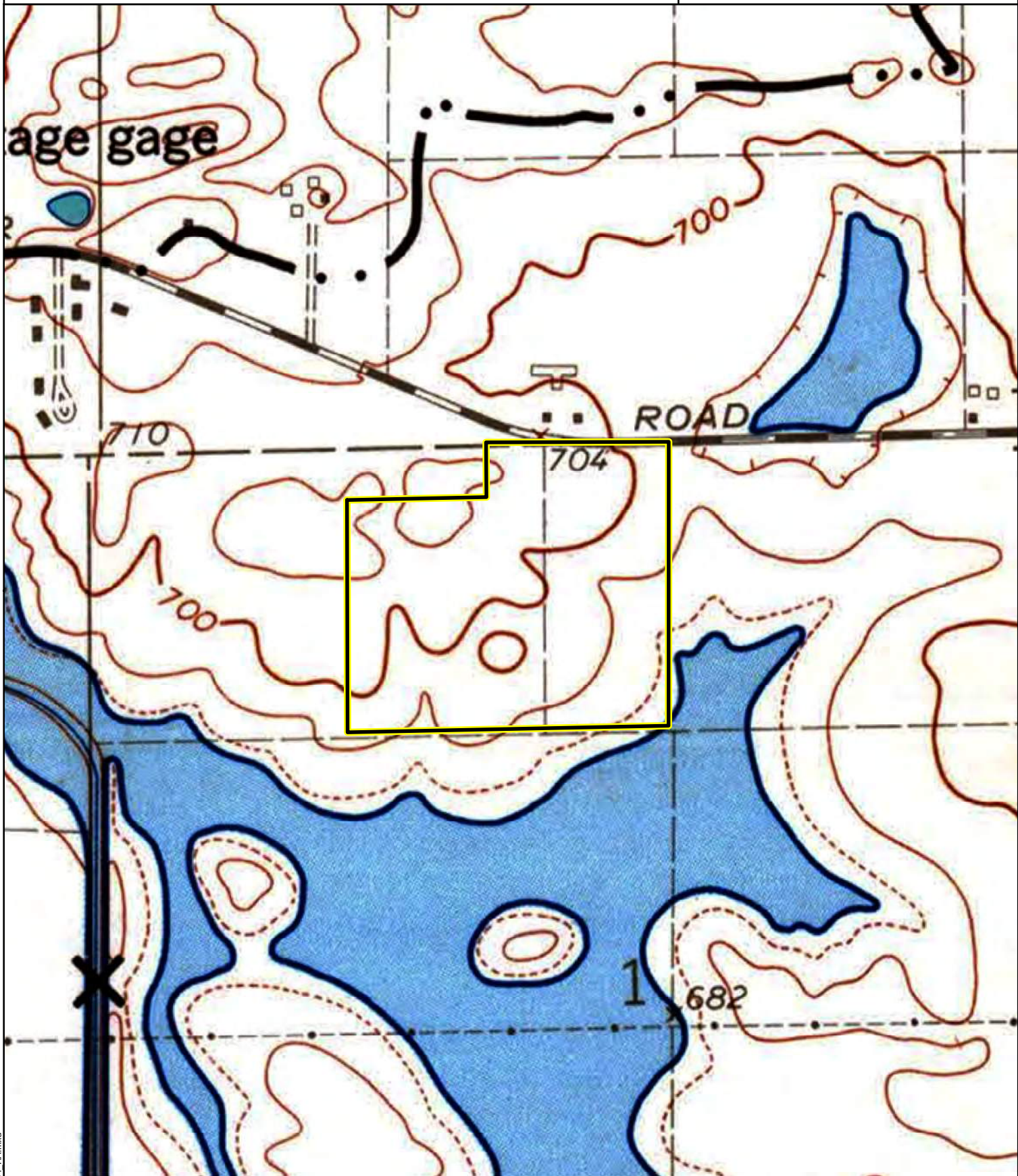
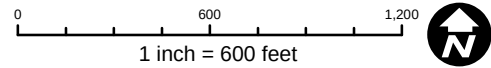
- 103A - HOUGHTON MUCK, HYDRIC
- 152A - DRUMMER SILTY CLAY LOAM, HYDRIC
- 223B - VARNA SILT LOAM
- 531B - MARKHAM SILT LOAM



CLIENT:		TITLE:		CBBEL # 26-0254	
CATFISH RENEWABLE ENERGY, LLC		SOIL SURVEY		DATE: 6/4/2026	
 CHRISTOPHER B. BURKE Engineering, Ltd. 9575 W. Higgins Road, Suite 600, Rosemont, Illinois 60018 (847)823-0500		DSGN.		SCALE:	1" = 250'
		DWN.	KEK	USER:	KKOPIJA
		CHKD.	JMA	PLOT DATE:	6/4/2026
		FILE NAME:	260254_SOILS		
				EXH 4	

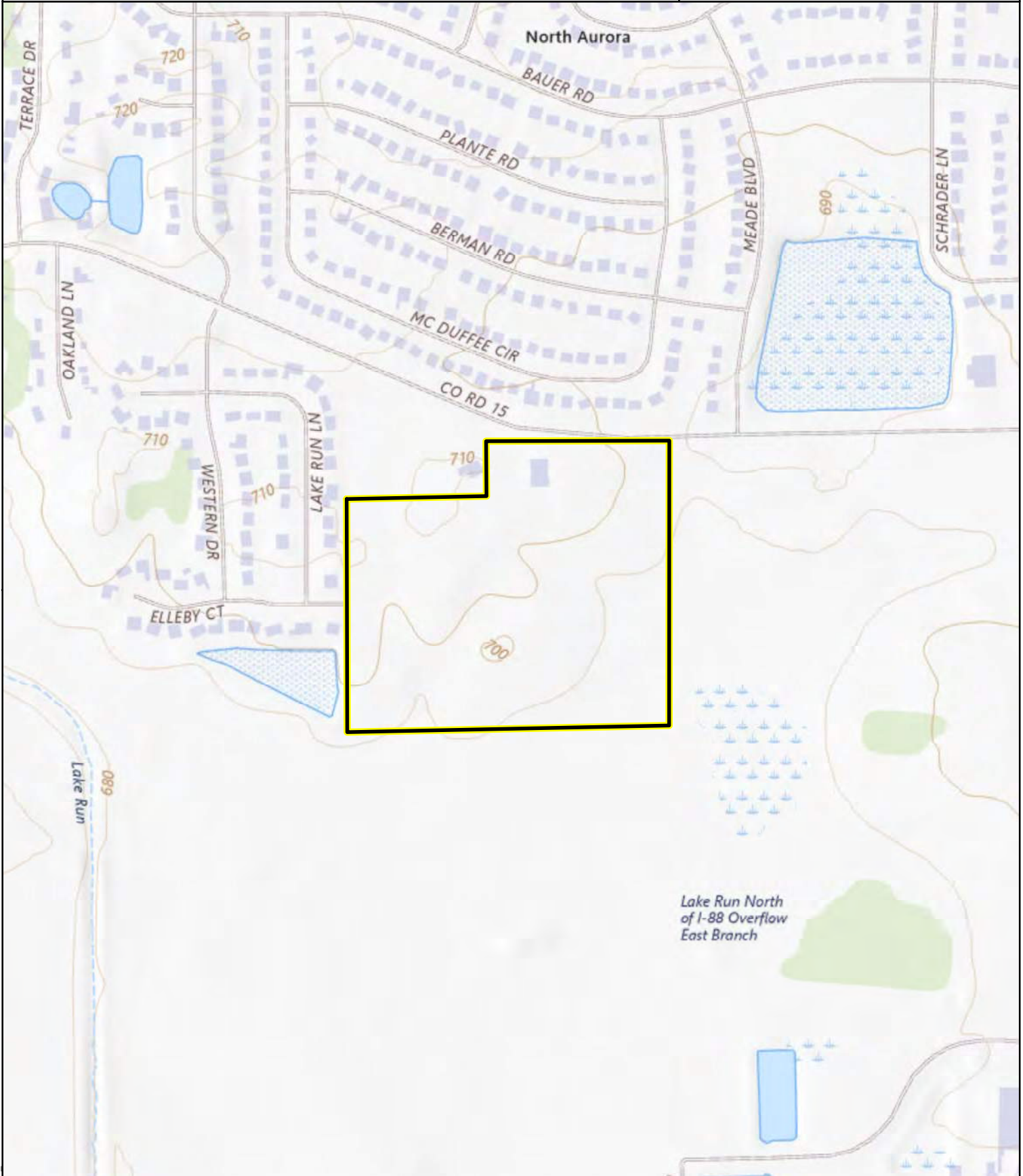
N:\Aural\260254\GIS\Exhibits\260254_SOILS.mxd

NOTE: TAKEN FROM THE HYDROLOGIC ATLAS(HA), SUGAR GROVE QUADRANGLE(1964)



CLIENT: CATFISH RENEWABLE ENERGY, LLC		TITLE: HYDROLOGIC ATLAS		CBBEL # 26-0254	
				DATE: 6/4/2026	
 CHRISTOPHER B. BURKE Engineering, Ltd. 9575 W. Higgins Road, Suite 600, Rosemont, Illinois 60018 (847)823-0500		DSGN.		SCALE:	1" = 600'
		DWN.	KEK	USER:	KKOPIJA
		CHKD.	JMA	PLOT DATE:	6/4/2026
		FILE NAME:		260254_HA	
				EXH 5	

N:\Aural\260254\GIS\Exhibits\260254_HA.mxd



CLIENT:		TITLE:			
CATFISH RENEWABLE ENERGY, LLC		UNITED STATES GEOLOGICAL SURVEY		CBBEL # 26-0254	
				DATE: 6/4/2026	
 CHRISTOPHER B. BURKE Engineering, Ltd. 9575 W. Higgins Road, Suite 600, Rosemont, Illinois 60018 (847)823-0500		DSGN.			SCALE: 1" = 600'
		DWN.		KEK	USER: KKOPJA
		CHKD.		JMA	PLOT DATE: 6/4/2026
		FILE NAME:		260254_USGS	
				EXH 6	

NOTE: TAKEN FROM THE FLOOD INSURANCE RATE MAP(FIRM), KANE COUNTY AND INCORPORATED AREAS, ILLINOIS, MAP NUMBER 17089C0317H, EFFECTIVE DATE: AUGUST 3, 2009

0 250 500

1 inch = 250 feet



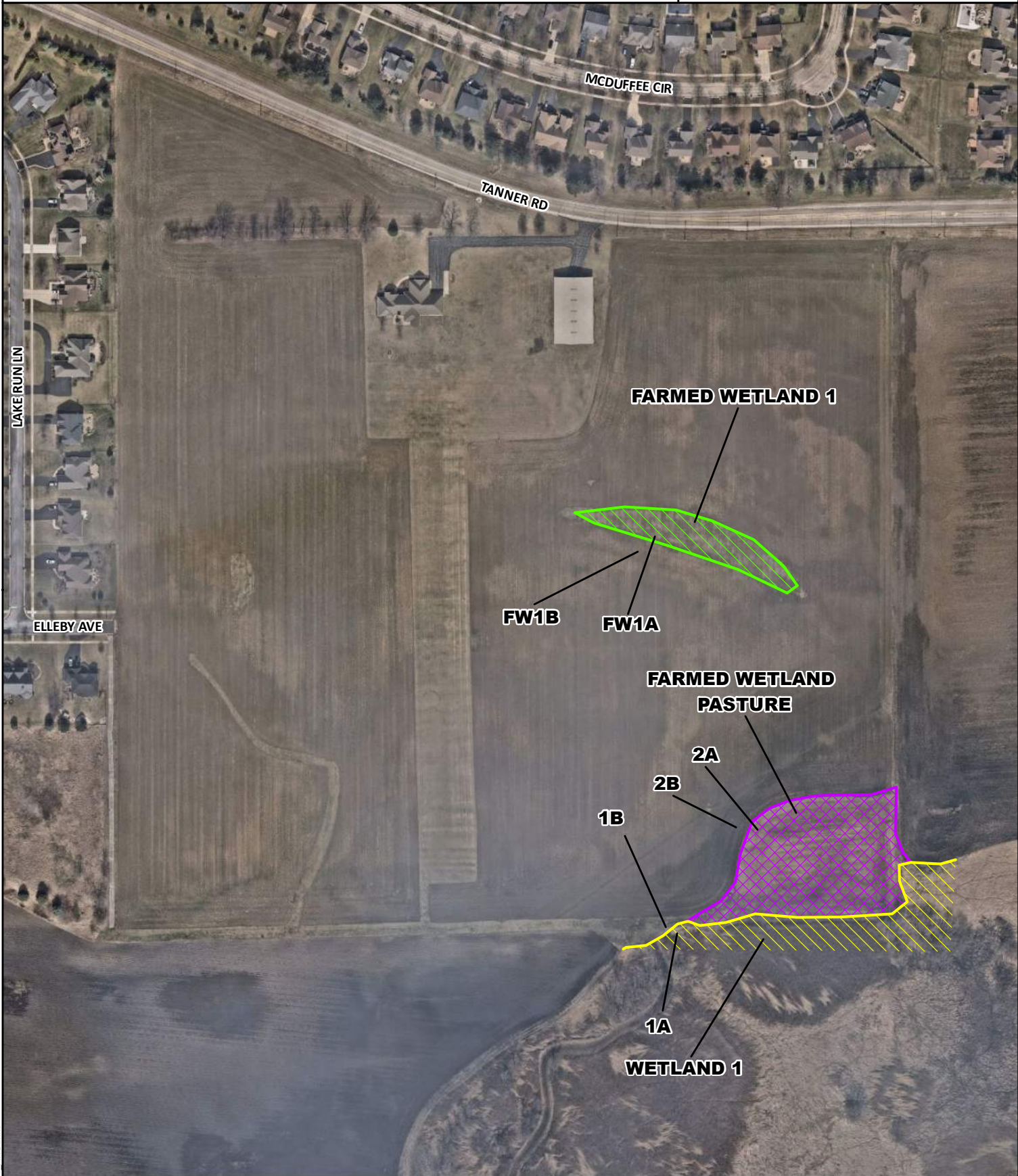
Legend

100 YEAR FLOODPLAIN



CLIENT:		TITLE:		CBBEL # 26-0254							
CATFISH RENEWABLE ENERGY, LLC		FLOOD INSURANCE RATE MAP		DATE: 6/4/2026							
	CHRISTOPHER B. BURKE Engineering, Ltd. 9575 W. Higgins Road, Suite 600, Rosemont, Illinois 60018 (847)823-0500			DSGN.		SCALE:		1" = 250'			
				DWN.		KEK		USER:		KKOPIJA	
				CHKD.		JMA		PLOT DATE:		6/4/2026	
				FILE NAME:		260254_FIRM					
				EXH 7							

N:\Aural\260254\GIS\Exhibits\260254_FIRM.mxd



CLIENT: CATFISH RENEWABLE ENERGY, LLC		TITLE: APPROXIMATE WETLAND DELINEATION		CBBEL # 26-0254	
				DATE: 6/26/2026	
 CHRISTOPHER B. BURKE Engineering, Ltd. 9575 W. Higgins Road, Suite 600, Rosemont, Illinois 60018 (847)823-0500		DSGN.		SCALE:	1" = 250'
		DWN.	KEK	USER:	KKOPIJA
		CHKD.	JMA	PLOT DATE:	6/26/2026
		FILE NAME:	260254_AWD		
					EXH 8



APPENDIX B – FLORISTIC INVENTORY

Wetland 1

CONSERVATISM- BASED METRICS

MEAN C (NATIVE SPECIES)	2.55
MEAN C (ALL SPECIES)	1.47
MEAN C (NATIVE TREES)	2.50
MEAN C (NATIVE SHRUBS)	2.00
MEAN C (NATIVE HERBACEOUS)	2.63
FQAI (NATIVE SPECIES)	8.44
FQAI (ALL SPECIES)	6.42
ADJUSTED FQAI	19.37
% C VALUE 0	0.53
% C VALUE 1-3	0.32
% C VALUE 4-6	0.16
% C VALUE 7-10	0.00

ADDITIONAL METRICS

SPECIES RICHNESS (ALL)	19
SPECIES RICHNESS (NATIVE)	11
% NON-NATIVE	0.42
WET INDICATOR (ALL)	-0.58
WET INDICATOR (NATIVE)	-0.73
% HYDROPHYTE (MIDWEST)	0.89
% NATIVE PERENNIAL	0.47
% NATIVE ANNUAL	0.11
% ANNUAL	0.16
% PERENNIAL	0.84

SPECIES NAME	C	MIDWEST	WET				
(NWPL/ MOHLENBROCK)	VALUE	WET	INDICATOR	(NUMERIC)	HABIT	DURATION	NATIVITY
Ambrosia trifida	0	FAC		0	Forb	Annual	Native
Apocynum cannabinum	2	FAC		0	Forb	Perennial	Native
Asclepias incarnata	3	OBL		-2	Forb	Perennial	Native
Calystegia sepium	1	FAC		0	Forb	Perennial	Native
Cirsium arvense	0	FACU		1	Forb	Perennial	Adventive
Impatiens capensis	3	FACW		-1	Forb	Annual	Native
Lythrum salicaria	0	OBL		-2	Forb	Perennial	Adventive
Morus alba	0	FAC		0	Tree	Perennial	Adventive
Persicaria maculosa	0	FACW		-1	Forb	Annual	Adventive
Phalaris arundinacea	0	FACW		-1	Grass	Perennial	Adventive
Phragmites australis							
ssp. australis	0	FACW		-1	Grass	Perennial	Adventive
Populus deltoides	0	FAC		0	Tree	Perennial	Native
Pycnanthemum							
virginianum	5	FACW		-1	Forb	Perennial	Native
Salix interior	2	FACW		-1	Shrub	Perennial	Native
Salix nigra	5	OBL		-2	Tree	Perennial	Native
Solanum dulcamara	0	FAC		0	Vine	Perennial	Adventive
Solidago gigantea	4	FACW		-1	Forb	Perennial	Native
Symphyotrichum							
lanceolatum	3	FAC		0	Forb	Perennial	Native
Trifolium pratense	0	FACU		1	Forb	Perennial	Adventive

Farmed Wetland 1

CONSERVATISM- BASED METRICS			ADDITIONAL METRICS		
MEAN C (NATIVE SPECIES)	0.00		SPECIES RICHNESS (ALL)		2
MEAN C (ALL SPECIES)	0.00		SPECIES RICHNESS (NATIVE)		0
MEAN C (NATIVE TREES)	n/a		% NON-NATIVE		1.00
MEAN C (NATIVE SHRUBS)	n/a		WET INDICATOR (ALL)		0.50
MEAN C (NATIVE HERBACEOUS)	n/a		WET INDICATOR (NATIVE)		0.00
FQAI (NATIVE SPECIES)	0.00		% HYDROPHYTE (MIDWEST)		0.50
FQAI (ALL SPECIES)	0.00		% NATIVE PERENNIAL		0.00
ADJUSTED FQAI	0.00		% NATIVE ANNUAL		0.00
% C VALUE 0	1.00		% ANNUAL		0.00
% C VALUE 1-3	0.00		% PERENNIAL		1.00
% C VALUE 4-6	0.00				
% C VALUE 7-10	0.00				

SPECIES NAME		C	MIDWEST	WET				
(NWPL/ MOHLENBROCK)	COMMON NAME		WET	INDICATOR				
		VALUE	INDICATOR	(NUMERIC)	HABIT	DURATION	NATIVITY	
Medicago sativa	Alfalfa	0	FACU	1	Forb	Perennial	Adventive	
Poa pratensis	Kentucky Blue Grass	0	FAC	0	Grass	Perennial	Adventive	

Farmed Wetland Pasture

CONSERVATISM- BASED METRICS		ADDITIONAL METRICS	
MEAN C (NATIVE SPECIES)	0.00	SPECIES RICHNESS (ALL)	3
MEAN C (ALL SPECIES)	0.00	SPECIES RICHNESS (NATIVE)	0
MEAN C (NATIVE TREES)	n/a	% NON-NATIVE	1.00
MEAN C (NATIVE SHRUBS)	n/a	WET INDICATOR (ALL)	0.67
MEAN C (NATIVE HERBACEOUS)	n/a	WET INDICATOR (NATIVE)	0.00
FQAI (NATIVE SPECIES)	0.00	% HYDROPHYTE (MIDWEST)	0.33
FQAI (ALL SPECIES)	0.00	% NATIVE PERENNIAL	0.00
ADJUSTED FQAI	0.00	% NATIVE ANNUAL	0.00
% C VALUE 0	1.00	% ANNUAL	0.00
% C VALUE 1-3	0.00	% PERENNIAL	1.00
% C VALUE 4-6	0.00		
% C VALUE 7-10	0.00		

		MIDWEST		WET				
SPECIES NAME		C		INDICATOR				
(NWPL/ MOHLENBROCK)	COMMON NAME	VALUE	INDICATOR	(NUMERIC)	HABIT	DURATION	NATIVITY	
Plantago lanceolata	English Plantain	0	FACU	1	Forb	Perennial	Adventive	
Poa pratensis	Kentucky Blue Grass	0	FAC	0	Grass	Perennial	Adventive	
Trifolium pratense	Red Clover	0	FACU	1	Forb	Perennial	Adventive	

APPENDIX C – SITE PHOTOGRAPHS



Photo 1: Wetland 1, facing southeast.



Photo 2: Wetland 1, facing west.



Photo 3: Farmed Wetland Pasture, facing northwest.



Photo 4: Farmed Wetland 1, facing west.



Photo 5: Turfgrass lawn and existing structure near alfalfa field, facing northeast.



Photo 6: Alfalfa field along northern project boundary, facing west.



Christopher B. Burke Engineering, Ltd.
9575 W. Higgins Road, Suite 600
Rosemont, Illinois 60018
847-823-0500

CLIENT: CATFISH RENEWABLE ENERGY, LLC.

PROJECT NO: 260254

06/19/2026

REPRESENTATIVE PHOTOGRAPHS

EXHIBIT: RP

APPENDIX D – DATA FORMS

OMB Control #: 0710-0024, Exp: 9/30/2027
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u> X </u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u> X </u> No <u> </u>
Hydric Soil Present? Yes <u> X </u> No <u> </u>	
Wetland Hydrology Present? Yes <u> X </u> No <u> </u>	
Remarks:	

Tree Stratum	(Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Salix nigra</i>		45	Yes	OBL
2.				
3.				
4.				
5.				
		45	=Total Cover	

Sapling/Shrub Stratum	(Plot size: 15)			
1.				
2.				
3.				
4.				
5.				
			=Total Cover	

Herb Stratum	(Plot size: 5)			
1. <i>Phragmites australis</i>		90	Yes	FACW
2. <i>Impatiens capensis</i>		10	No	FACW
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
		100	=Total Cover	

Woody Vine Stratum	(Plot size: 30)			
1.				
2.				
			=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That
Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species
Across All Strata: 2 (B)

Percent of Dominant Species That
Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>45</u>	x 1 = <u>45</u>
FACW species <u>100</u>	x 2 = <u>200</u>
FAC species <u>0</u>	x 3 = <u>0</u>
FACU species <u>0</u>	x 4 = <u>0</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>145</u> (A)	<u>245</u> (B)
Prevalence Index = B/A = <u>1.69</u>	

Hydrophytic Vegetation Indicators:

1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

X 3 - Prevalence Index is ≤3.0¹

4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation

Present? Yes X No

Midwest – Version 2.0

SOIL

Sampling Point: 1A

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-2	N 2.5/	100					Muck	
2-14	10YR 2/1	100					Loamy/Clayey	
14-24	10YR 3/2	100					Loamy/Clayey	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.²Location: PL=Pore Lining, M=Matrix.**Hydric Soil Indicators:**

- ☐ Histosol (A1) ☐ Sandy Gleyed Matrix (S4)
☐ Histic Epipedon (A2) ☐ Sandy Redox (S5)
☐ Black Histic (A3) ☐ Stripped Matrix (S6)
☐ Hydrogen Sulfide (A4) ☐ Dark Surface (S7)
☐ Stratified Layers (A5) ☐ Loamy Mucky Mineral (F1)
☒ 2 cm Muck (A10) ☐ Loamy Gleyed Matrix (F2)
☐ Depleted Below Dark Surface (A11) ☐ Depleted Matrix (F3)
☐ Thick Dark Surface (A12) ☐ Redox Dark Surface (F6)
☐ Iron Monosulfide (A18) ☐ Depleted Dark Surface (F7)
☐ Sandy Mucky Mineral (S1) ☐ Redox Depressions (F8)
☐ 5 cm Mucky Peat or Peat (S3)

Indicators for Problematic Hydric Soils³:

- ☐ Iron-Manganese Masses (F12)
☐ Red Parent Material (F21)
☐ Very Shallow Dark Surface (F22)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes ☒ No ☐

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:Primary Indicators (minimum of one is required; check all that apply)

- ☒ Surface Water (A1) ☒ Water-Stained Leaves (B9)
☒ High Water Table (A2) ☐ Aquatic Fauna (B13)
☒ Saturation (A3) ☐ True Aquatic Plants (B14)
☐ Water Marks (B1) ☐ Hydrogen Sulfide Odor (C1)
☐ Sediment Deposits (B2) ☐ Oxidized Rhizospheres on Living Roots (C3)
☐ Drift Deposits (B3) ☐ Presence of Reduced Iron (C4)
☐ Algal Mat or Crust (B4) ☐ Recent Iron Reduction in Tilled Soils (C6)
☐ Iron Deposits (B5) ☐ Thin Muck Surface (C7)
☒ Inundation Visible on Aerial Imagery (B7) ☐ Gauge or Well Data (D9)
☐ Sparsely Vegetated Concave Surface (B8) ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Surface Soil Cracks (B6)
☒ Drainage Patterns (B10)
☐ Dry-Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Stunted or Stressed Plants (D1)
☒ Geomorphic Position (D2)
☒ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☒ No ☐ Depth (inches): 2
 Water Table Present? Yes ☒ No ☐ Depth (inches):
 Saturation Present? Yes ☒ No ☐ Depth (inches):
 (includes capillary fringe)

Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Midwest Region See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 9/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: Catfish Renewable Energy 260254 City/County: Aurora/Kane Sampling Date: 6/19/2026
Applicant/Owner: Catfish Renewable Energy State: IL Sampling Point: 1B
Investigator(s): Ryan Heller Section, Township, Range: S1, T38N, R7E
Landform (hillside, terrace, etc.): None Local relief (concave, convex, none): Convex
Slope (%): 5 Lat: 41.806030 Long: -88.387297 Datum: WGS1984
Soil Map Unit Name: Houghton muck NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u> Hydric Soil Present? Yes <u> </u> No <u>X</u> Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>
Remarks:	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30</u>) 1. <u> </u> 2. <u> </u> 3. <u> </u> 4. <u> </u> 5. <u> </u> <u> </u> =Total Cover	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.0%</u> (A/B)
Sapling/Shrub Stratum (Plot size: <u>15</u>) 1. <u> </u> 2. <u> </u> 3. <u> </u> 4. <u> </u> 5. <u> </u> <u> </u> =Total Cover	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>70</u> x 3 = <u>210</u> FACU species <u>30</u> x 4 = <u>120</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>100</u> (A) <u>330</u> (B) Prevalence Index = B/A = <u>3.30</u>
Herb Stratum (Plot size: <u>5</u>) 1. <u>Poa pratensis</u> <u>70</u> Yes <u>FAC</u> 2. <u>Trifolium pratense</u> <u>30</u> Yes <u>FACU</u> 3. <u> </u> 4. <u> </u> 5. <u> </u> 6. <u> </u> 7. <u> </u> 8. <u> </u> 9. <u> </u> 10. <u> </u> <u>100</u> =Total Cover	Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u> </u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: <u>30</u>) 1. <u> </u> 2. <u> </u> <u> </u> =Total Cover	Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>

SOIL

Sampling Point: 1B

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-10	10YR 3/2	100					Loamy/Clayey	
10-19	10YR 3/3	100					Loamy/Clayey	
19-24	10YR 4/3	100					Loamy/Clayey	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.²Location: PL=Pore Lining, M=Matrix.**Hydric Soil Indicators:**

☐ Histosol (A1)	☐ Sandy Gleyed Matrix (S4)
☐ Histic Epipedon (A2)	☐ Sandy Redox (S5)
☐ Black Histic (A3)	☐ Stripped Matrix (S6)
☐ Hydrogen Sulfide (A4)	☐ Dark Surface (S7)
☐ Stratified Layers (A5)	☐ Loamy Mucky Mineral (F1)
☐ 2 cm Muck (A10)	☐ Loamy Gleyed Matrix (F2)
☐ Depleted Below Dark Surface (A11)	☐ Depleted Matrix (F3)
☐ Thick Dark Surface (A12)	☐ Redox Dark Surface (F6)
☐ Iron Monosulfide (A18)	☐ Depleted Dark Surface (F7)
☐ Sandy Mucky Mineral (S1)	☐ Redox Depressions (F8)
☐ 5 cm Mucky Peat or Peat (S3)	

Indicators for Problematic Hydric Soils³:

☐ Iron-Manganese Masses (F12)
☐ Red Parent Material (F21)
☐ Very Shallow Dark Surface (F22)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**
 Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:Primary Indicators (minimum of one is required; check all that apply)

☐ Surface Water (A1)	☐ Water-Stained Leaves (B9)
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)
☐ Saturation (A3)	☐ True Aquatic Plants (B14)
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres on Living Roots (C3)
☐ Drift Deposits (B3)	☐ Presence of Reduced Iron (C4)
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)
☐ Inundation Visible on Aerial Imagery (B7)	☐ Gauge or Well Data (D9)
☐ Sparsely Vegetated Concave Surface (B8)	☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

☐ Surface Soil Cracks (B6)
☐ Drainage Patterns (B10)
☐ Dry-Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Stunted or Stressed Plants (D1)
☐ Geomorphic Position (D2)
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes _____	No <u>X</u>	Depth (inches): _____
Water Table Present?	Yes _____	No <u>X</u>	Depth (inches): _____
Saturation Present?	Yes _____	No <u>X</u>	Depth (inches): _____
(includes capillary fringe)			

Wetland Hydrology Present? Yes _____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Midwest Region See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 9/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: <u>Catfish Renewable Energy 260254</u>	City/County: <u>Aurora/Kane</u>	Sampling Date: <u>6/19/2026</u>
Applicant/Owner: <u>Catfish Renewable Energy</u>	State: <u>IL</u>	Sampling Point: <u>2A</u>
Investigator(s): <u>Ryan Heller</u>	Section, Township, Range: <u>S1, T38N, R7E</u>	
Landform (hillside, terrace, etc.): <u>None</u>	Local relief (concave, convex, none): <u>None</u>	
Slope (%): <u>0</u>	Lat: <u>41.806534</u>	Long: <u>-88.386627</u>
Datum: <u>WGS1984</u>		
Soil Map Unit Name: <u>Dummer silty clay loam</u>	NW1 classification: <u>None</u>	
Are climatic / hydrologic conditions on the site typical for this time of year? Yes <u>X</u> No <u> </u> (If no, explain in Remarks.)		
Are Vegetation <u> </u> , Soil <u> </u> , or Hydrology <u> </u> significantly disturbed? Are "Normal Circumstances" present? Yes <u>X</u> No <u> </u>		
Are Vegetation <u> </u> , Soil <u> </u> , or Hydrology <u> </u> naturally problematic? (If needed, explain any answers in Remarks.)		

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u> Hydric Soil Present? Yes <u>X</u> No <u> </u> Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>
Remarks:	

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1.					Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																
2.																					
3.																					
4.																					
5.																					
		=Total Cover																			
Sapling/Shrub Stratum	(Plot size: <u>15</u>)				Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>100</u></td> <td>x 3 = <u>300</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>100</u> (A)</td> <td><u>300</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>3.00</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>100</u>	x 3 = <u>300</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>100</u> (A)	<u>300</u> (B)	Prevalence Index = B/A = <u>3.00</u>	
Total % Cover of:	Multiply by:																				
OBL species <u>0</u>	x 1 = <u>0</u>																				
FACW species <u>0</u>	x 2 = <u>0</u>																				
FAC species <u>100</u>	x 3 = <u>300</u>																				
FACU species <u>0</u>	x 4 = <u>0</u>																				
UPL species <u>0</u>	x 5 = <u>0</u>																				
Column Totals: <u>100</u> (A)	<u>300</u> (B)																				
Prevalence Index = B/A = <u>3.00</u>																					
1.																					
2.																					
3.																					
4.																					
5.																					
		=Total Cover																			
Herb Stratum	(Plot size: <u>5</u>)				Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u>X</u> 2 - Dominance Test is >50% <u>X</u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
1. <u>Poa pratensis</u>		<u>100</u>	<u>Yes</u>	<u>FAC</u>																	
2.																					
3.																					
4.																					
5.																					
6.																					
7.																					
8.																					
9.																					
10.																					
		<u>100</u>	=Total Cover																		
Woody Vine Stratum	(Plot size: <u>30</u>)				Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>																
1.																					
2.																					
		=Total Cover																			
Remarks: (Include photo numbers here or on a separate sheet.)																					

SOIL

Sampling Point: 2A

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-8	10YR 2/1	95	10YR 5/6	5	C	M	Loamy/Clayey	Prominent redox concentrations
8-12	10YR 3/1	95	10YR 5/6	5	C	M	Loamy/Clayey	Prominent redox concentrations
12-24	10YR 4/2	100					Loamy/Clayey	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.²Location: PL=Pore Lining, M=Matrix.**Hydric Soil Indicators:**

☐ Histosol (A1)	☐ Sandy Gleyed Matrix (S4)
☐ Histic Epipedon (A2)	☐ Sandy Redox (S5)
☐ Black Histic (A3)	☐ Stripped Matrix (S6)
☐ Hydrogen Sulfide (A4)	☐ Dark Surface (S7)
☐ Stratified Layers (A5)	☐ Loamy Mucky Mineral (F1)
☐ 2 cm Muck (A10)	☐ Loamy Gleyed Matrix (F2)
☐ Depleted Below Dark Surface (A11)	☐ Depleted Matrix (F3)
☐ Thick Dark Surface (A12)	☒ Redox Dark Surface (F6)
☐ Iron Monosulfide (A18)	☐ Depleted Dark Surface (F7)
☐ Sandy Mucky Mineral (S1)	☐ Redox Depressions (F8)
☐ 5 cm Mucky Peat or Peat (S3)	

Indicators for Problematic Hydric Soils³:

☐ Iron-Manganese Masses (F12)
☐ Red Parent Material (F21)
☐ Very Shallow Dark Surface (F22)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**
 Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes ☒ No _____

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:Primary Indicators (minimum of one is required; check all that apply)

☐ Surface Water (A1)	☐ Water-Stained Leaves (B9)
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)
☐ Saturation (A3)	☐ True Aquatic Plants (B14)
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres on Living Roots (C3)
☐ Drift Deposits (B3)	☐ Presence of Reduced Iron (C4)
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)
☐ Inundation Visible on Aerial Imagery (B7)	☐ Gauge or Well Data (D9)
☐ Sparsely Vegetated Concave Surface (B8)	☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

☐ Surface Soil Cracks (B6)
☐ Drainage Patterns (B10)
☐ Dry-Season Water Table (C2)
☐ Crayfish Burrows (C8)
☒ Saturation Visible on Aerial Imagery (C9)
☐ Stunted or Stressed Plants (D1)
☐ Geomorphic Position (D2)
☒ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes _____	No ☒	Depth (inches): _____
Water Table Present?	Yes _____	No ☒	Depth (inches): _____
Saturation Present?	Yes _____	No ☒	Depth (inches): _____
(includes capillary fringe)			

Wetland Hydrology Present? Yes ☒ No _____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Midwest Region See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 9/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: Catfish Renewable Energy 260254 City/County: Aurora/Kane Sampling Date: 6/19/2026
Applicant/Owner: Catfish Renewable Energy State: IL Sampling Point: 2B
Investigator(s): Ryan Heller Section, Township, Range: S1, T38N, R7E
Landform (hillside, terrace, etc.): None Local relief (concave, convex, none): None
Slope (%): 0 Lat: 41.806548 Long: -88.386745 Datum: WGS1984
Soil Map Unit Name: Markham silt loam NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u> Hydric Soil Present? Yes <u> </u> No <u>X</u> Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>
Remarks:	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30</u>) 1. <u> </u> 2. <u> </u> 3. <u> </u> 4. <u> </u> 5. <u> </u> <u> </u> =Total Cover	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)
Sapling/Shrub Stratum (Plot size: <u>15</u>) 1. <u> </u> 2. <u> </u> 3. <u> </u> 4. <u> </u> 5. <u> </u> <u> </u> =Total Cover	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>100</u> x 4 = <u>400</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>100</u> (A) <u>400</u> (B) Prevalence Index = B/A = <u>4.00</u>
Herb Stratum (Plot size: <u>5</u>) 1. <u>Medicago sativa</u> <u>100</u> Yes <u>FACU</u> 2. <u> </u> 3. <u> </u> 4. <u> </u> 5. <u> </u> 6. <u> </u> 7. <u> </u> 8. <u> </u> 9. <u> </u> 10. <u> </u> <u>100</u> =Total Cover	Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u> </u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: <u>30</u>) 1. <u> </u> 2. <u> </u> <u> </u> =Total Cover	Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>

SOIL

Sampling Point: 2B

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-9	10YR 3/1	100					Loamy/Clayey	
9-15	10YR 3/2	100					Loamy/Clayey	
15-24	10YR 4/3	100					Loamy/Clayey	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.²Location: PL=Pore Lining, M=Matrix.**Hydric Soil Indicators:**

☐ Histosol (A1)	☐ Sandy Gleyed Matrix (S4)
☐ Histic Epipedon (A2)	☐ Sandy Redox (S5)
☐ Black Histic (A3)	☐ Stripped Matrix (S6)
☐ Hydrogen Sulfide (A4)	☐ Dark Surface (S7)
☐ Stratified Layers (A5)	☐ Loamy Mucky Mineral (F1)
☐ 2 cm Muck (A10)	☐ Loamy Gleyed Matrix (F2)
☐ Depleted Below Dark Surface (A11)	☐ Depleted Matrix (F3)
☐ Thick Dark Surface (A12)	☐ Redox Dark Surface (F6)
☐ Iron Monosulfide (A18)	☐ Depleted Dark Surface (F7)
☐ Sandy Mucky Mineral (S1)	☐ Redox Depressions (F8)
☐ 5 cm Mucky Peat or Peat (S3)	

Indicators for Problematic Hydric Soils³:

☐ Iron-Manganese Masses (F12)
☐ Red Parent Material (F21)
☐ Very Shallow Dark Surface (F22)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**
 Type: _____
 Depth (inches): _____
Hydric Soil Present? Yes _____ No X

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:Primary Indicators (minimum of one is required; check all that apply)

☐ Surface Water (A1)	☐ Water-Stained Leaves (B9)
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)
☐ Saturation (A3)	☐ True Aquatic Plants (B14)
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres on Living Roots (C3)
☐ Drift Deposits (B3)	☐ Presence of Reduced Iron (C4)
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)
☐ Inundation Visible on Aerial Imagery (B7)	☐ Gauge or Well Data (D9)
☐ Sparsely Vegetated Concave Surface (B8)	☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

☐ Surface Soil Cracks (B6)
☐ Drainage Patterns (B10)
☐ Dry-Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Stunted or Stressed Plants (D1)
☐ Geomorphic Position (D2)
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes _____	No <u>X</u>	Depth (inches): _____
Water Table Present?	Yes _____	No <u>X</u>	Depth (inches): _____
Saturation Present?	Yes _____	No <u>X</u>	Depth (inches): _____
(includes capillary fringe)			

Wetland Hydrology Present? Yes _____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Midwest Region See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 9/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
--	---

Project/Site: <u>Catfish Renewable Energy 260254</u>	City/County: <u>Aurora/Kane</u>	Sampling Date: <u>6/19/2026</u>
Applicant/Owner: <u>Catfish Renewable Energy, LLC</u>	State: <u>IL</u>	Sampling Point: <u>FW1A</u>
Investigator(s): <u>Ryan Heller</u>	Section, Township, Range: <u>S1, T38N, R7E</u>	
Landform (hillside, terrace, etc.): <u>Depression</u>	Local relief (concave, convex, none): <u>Concave</u>	
Slope (%): <u>0</u>	Lat: <u>41.808159</u>	Long: <u>-88.387462</u>
		Datum: <u>WGS1984</u>
Soil Map Unit Name: <u>Markham silt loam</u>	NWI classification: <u>N/A</u>	

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No X (If no, explain in Remarks.)

Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No

Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>
Hydric Soil Present? Yes <u>X</u> No <u> </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	
Remarks:	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)																
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
<u> </u> =Total Cover				Prevalence Index worksheet: <table><tr><td>Total % Cover of:</td><td>Multiply by:</td></tr><tr><td>OBL species <u>0</u></td><td>x 1 = <u>0</u></td></tr><tr><td>FACW species <u>0</u></td><td>x 2 = <u>0</u></td></tr><tr><td>FAC species <u>0</u></td><td>x 3 = <u>0</u></td></tr><tr><td>FACU species <u>85</u></td><td>x 4 = <u>340</u></td></tr><tr><td>UPL species <u>0</u></td><td>x 5 = <u>0</u></td></tr><tr><td>Column Totals: <u>85</u> (A)</td><td><u>340</u> (B)</td></tr><tr><td colspan="2">Prevalence Index = B/A = <u>4.00</u></td></tr></table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>85</u>	x 4 = <u>340</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>85</u> (A)	<u>340</u> (B)	Prevalence Index = B/A = <u>4.00</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>0</u>	x 2 = <u>0</u>																			
FAC species <u>0</u>	x 3 = <u>0</u>																			
FACU species <u>85</u>	x 4 = <u>340</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>85</u> (A)	<u>340</u> (B)																			
Prevalence Index = B/A = <u>4.00</u>																				
Sapling/Shrub Stratum (Plot size: <u>15</u>)																				
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
<u> </u> =Total Cover																				
Herb Stratum (Plot size: <u>5</u>)				Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u> </u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
1. <u>Medicago sativa</u>	<u>85</u>	<u>Yes</u>	<u>FACU</u>																	
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
6. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
7. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
8. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
9. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
10. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
<u>85</u> =Total Cover																				
Woody Vine Stratum (Plot size: <u>30</u>)				Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>																
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
<u> </u> =Total Cover																				
Remarks: (Include photo numbers here or on a separate sheet.)																				

SOIL

Sampling Point: FW1A

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-12	10YR 2/1	95	10YR 5/6	5	C	M	Loamy/Clayey	Prominent redox concentrations
12-18	10YR 3/1	100					Loamy/Clayey	
18-24	10YR 3/2	100					Loamy/Clayey	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:	Indicators for Problematic Hydric Soils ³ :
☐ Histosol (A1)	☐ Iron-Manganese Masses (F12)
☐ Histic Epipedon (A2)	☐ Red Parent Material (F21)
☐ Black Histic (A3)	☐ Very Shallow Dark Surface (F22)
☐ Hydrogen Sulfide (A4)	☐ Other (Explain in Remarks)
☐ Stratified Layers (A5)	
☐ 2 cm Muck (A10)	
☐ Depleted Below Dark Surface (A11)	
☐ Thick Dark Surface (A12)	
☐ Iron Monosulfide (A18)	
☐ Sandy Mucky Mineral (S1)	
☐ 5 cm Mucky Peat or Peat (S3)	
☐ Sandy Gleyed Matrix (S4)	
☐ Sandy Redox (S5)	
☐ Stripped Matrix (S6)	
☐ Dark Surface (S7)	
☐ Loamy Mucky Mineral (F1)	
☐ Loamy Gleyed Matrix (F2)	
☐ Depleted Matrix (F3)	
☒ Redox Dark Surface (F6)	
☐ Depleted Dark Surface (F7)	
☐ Redox Depressions (F8)	

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes ☒ No _____
Remarks:	

HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
☐ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)	
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)	
☐ Saturation (A3)	☐ True Aquatic Plants (B14)	☐ Dry-Season Water Table (C2)	
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Crayfish Burrows (C8)	
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres on Living Roots (C3)	☒ Saturation Visible on Aerial Imagery (C9)	
☐ Drift Deposits (B3)	☐ Presence of Reduced Iron (C4)	☒ Stunted or Stressed Plants (D1)	
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)	☒ Geomorphic Position (D2)	
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	☐ FAC-Neutral Test (D5)	
☐ Inundation Visible on Aerial Imagery (B7)	☐ Gauge or Well Data (D9)		
☐ Sparsely Vegetated Concave Surface (B8)	☐ Other (Explain in Remarks)		

Field Observations: Surface Water Present? Yes _____ No ☒ Depth (inches): _____ Water Table Present? Yes _____ No ☒ Depth (inches): _____ Saturation Present? Yes _____ No ☒ Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes ☒ No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

OMB Control #: 0710-0024, Exp: 9/30/2027
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SOIL

Sampling Point: FW1B

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-10	10YR 2/1	100					Loamy/Clayey	
10-16	10YR 3/2	100					Loamy/Clayey	
16-24	10YR 4/3	100					Loamy/Clayey	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:	Indicators for Problematic Hydric Soils ³ :
☐ Histosol (A1)	☐ Iron-Manganese Masses (F12)
☐ Histic Epipedon (A2)	☐ Red Parent Material (F21)
☐ Black Histic (A3)	☐ Very Shallow Dark Surface (F22)
☐ Hydrogen Sulfide (A4)	☐ Other (Explain in Remarks)
☐ Stratified Layers (A5)	
☐ 2 cm Muck (A10)	
☐ Depleted Below Dark Surface (A11)	
☐ Thick Dark Surface (A12)	
☐ Iron Monosulfide (A18)	
☐ Sandy Mucky Mineral (S1)	
☐ 5 cm Mucky Peat or Peat (S3)	

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes _____ No _____
Remarks:	

HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
☐ Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Surface Soil Cracks (B6)	
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)	☐ Drainage Patterns (B10)	
☐ Saturation (A3)	☐ True Aquatic Plants (B14)	☐ Dry-Season Water Table (C2)	
☐ Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)	☐ Crayfish Burrows (C8)	
☐ Sediment Deposits (B2)	☐ Oxidized Rhizospheres on Living Roots (C3)	☐ Saturation Visible on Aerial Imagery (C9)	
☐ Drift Deposits (B3)	☐ Presence of Reduced Iron (C4)	☐ Stunted or Stressed Plants (D1)	
☐ Algal Mat or Crust (B4)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Geomorphic Position (D2)	
☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	☐ FAC-Neutral Test (D5)	
☐ Inundation Visible on Aerial Imagery (B7)	☐ Gauge or Well Data (D9)		
☐ Sparsely Vegetated Concave Surface (B8)	☐ Other (Explain in Remarks)		

Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

FARMED WETLAND DETERMINATION

**TANNER ROAD SOLAR STUDY AREA
AURORA, KANE COUNTY, ILLINOIS**

Prepared For:

Catfish Renewable Energy, LLC
300 Gailes Court
Roseville, CA 95747

Prepared By:

Christopher B. Burke Engineering, Ltd.
9575 West Higgins Road, Suite 600
Rosemont, Illinois 60018

CBBEL Project No. 260254

June 25, 2026

INTRODUCTION

On June 19, 2026, Christopher B. Burke Engineering, Ltd. (CBBEL) completed a Farmed Wetland Determination (FWD) for the Tanner Road Solar study area using Natural Resources Conservation Service (NRCS) and U.S. Army Corps of Engineers (USACE) authorized procedures. The study area is located south of Tanner Road, west of Deerpath Road, east of Lake Run Lane, and north of Interstate 88 in North Aurora, Kane County, Illinois. Geographically, the study area is located in Section 1, Township 38 North, and Range 7, East of the 3rd Principal Meridian (Lat. 41.808344°, Long. -88.388996°).

FARMED WETLAND DETERMINATION PROCEDURES

The NRCS determines farmed wetland boundaries through use of existing data, including those listed in Table 1.

Table 1: Summary of existing data sources.

CBBEL Exhibit	Title of Data Source	Wetland(s) and/or Hydric Soils Mapped	Comments
2	National Wetlands Inventory Map Sugar Grove Quadrangle (1983)	No	No wetland signatures are mapped within the study area.
3	Soil Survey of Kane County, Illinois (2019)	Yes	103A – Houghton Muck and 152A – Drummer Silty Clay Loam, both hydric soils, are mapped within the study area.
Table 2	NRCS wetland spectral response criteria and category definitions used in the interpretation of the Historic Aerials for five normal precipitation years (2014, 2017, 2019, 2021, & 2023) and one wet precipitation year (2011)	Appendix A	Spectral signature of potential farmed wetlands identified.

The USACE Antecedent Precipitation Tool (APT) is a resource developed by the USACE to aid in the determination of climactic conditions for a specified location on a given date. To identify farmed wetlands, this tool is utilized to determine if spectral signatures for potential farmed wetlands (PFWs) were identified during Normal, Wet, or Dry precipitation conditions. In order for a PFW to be classified as a farmed wetland, spectral signatures must be identified on one *Wet* precipitation image, as well as over 50% of the *Normal* precipitation images surveyed. *Dry* precipitation imagery is not used. Imagery surveyed over multiple years is utilized, with only one satellite image used per year and, at minimum, five *Normal* images and one *Wet* image analyzed. The APT output can be found under Appendix C.

Six aerial images, including five Normal and one Wet precipitation condition, were examined, and all PFWs were indicated on aerial photography (Appendix B). Each PFW was evaluated year-by-year using the criteria in Appendix A. The results are summarized in Table 2. Representative aerial photographs indicating the year and slide number reviewed are included under Appendix B.

**Table 2: Tanner Road Solar Study Area:
Precipitation and Aerial Slide Analysis Summary**

Year	Precipitation Condition ¹	Spectral Signature of Potential Farmed Wetland Area					
		PFW 1	PFW 2	PFW 3	PFW 4	PFW 5	PFW 6
2011	Wet	X	X				
2014	Normal	X	X	X			
2017	Normal	X	X		X		
2019	Normal	X	X		X		
2021	Normal	X	X				
2023	Normal	X	X			X	X
TOTAL YEARS OBSERVED		6	6	1	2	1	1
PERCENTAGE OBSERVED OUT OF 6 YEARS		100%	100%	16.67%	33.33%	16.67%	16.67%
FARMED WETLAND		Yes	Yes	No	No	No	No

¹ Precipitation Condition assessed using the USACE Antecedent Precipitation Tool, Appendix C

DETERMINATION RESULTS AND ANALYSIS

As Table 2 summarizes, spectral signatures for PFWs 1 & 2 were observed in both the one Wet precipitation year and in more than 50% of the five years of Normal precipitation reviewed, as determined by the APT. **Based on field conditions observed during CBEL's wetland delineation, PFW 1 did not meet the necessary wetland indicators. Therefore, PFW 2 was determined to be the only farmed wetland on-site (as shown in Exhibit 8 as Farmed Wetland 1).**

As required, CBEL Environmental Resources staff utilized the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (August 2010), to identify the presence of Waters of the U.S. and wetland areas within non-agricultural portions of the study area. One wetland area and one farmed wetland pasture were identified within the study area using the USACE Wetland Delineation methodology (Exhibit 8).

APPENDIX A

NRCS SPECTRAL RESPONSE CRITERIA AND CATEGORY DEFINITIONS FOR WETLAND DETERMINATION

Wetland spectral responses are the indications left in a field and thus recorded by photograph of:

- Ponding, flooding or impacts of saturation for sufficient duration that meets wetland hydrology and possibly wetland vegetation criteria
- Hydrophytic vegetation (observed as different vegetative colors and pattern than crop or forage)
- Surface water
- Drowned-out crops
- Difference in vegetation within a field due to different planting dates
- Patches of greener vegetation (crop) during years of drier than normal precipitation
- Crop stress (areas of yellow crop or sparse canopy coverage of crop)
- Isolated areas not farmed with rest of field
- Inclusion of wet areas as set-aside if other signs of wetness are present
- Area on National Wetlands Inventory map

The NRCS uses five different categories to classify the various wetland/non-wetland situations.

PC = prior converted cropland. These are areas that were cleared, drained or filled and cropped before December 23, 1985 and have been maintained as cropland. This land may be farmed and maintained or improved in any way, as long as it continues to be used to grow corn, soybeans, wheat or similar crops, or any of these in rotation with hay or pasture. Abandonment of PC areas occurs when cropping is discontinued or no attempt is made to maintain the area as cropland for at least five years. Such areas will be reclassified as wetland (W, see below) and subject to the jurisdiction of the U.S. Army Corps of Engineers (COE) if hydrophytic vegetation returns to the site.

W = wetland. This is a wet area that is not normally cropped, has wet, saturated soil during some part of the growing season, and would support hydrophytic vegetation if the area was not disturbed by tillage, mowing or similar actions. Wetlands may be cropped during dry periods if the current or original natural vegetation is not trees or shrubs. Actions such as clearing, filling or draining will cause a wetland to be reclassified as CW and can fall under the jurisdiction of the COE or the NRCS depending on how the conversion took place.

CW = converted wetland. Croplands labeled as CW are areas that were:

- Cleared, drained, filled and/or otherwise changed in order to plant corn, soybeans, wheat or other annual crops after December 23, 1985, or
- Cleared of trees or shrubs before December 23, 1985 without recent cropping, or drained before December 23, 1985, but
- Not cleared of trees until after December 1985 to plant corn, soybeans, wheat or other annual crops, and

- Can fall under the jurisdiction of the COE or the NRCS depending on how the conversion took place.

FW = farmed wetland. FW areas are croplands that:

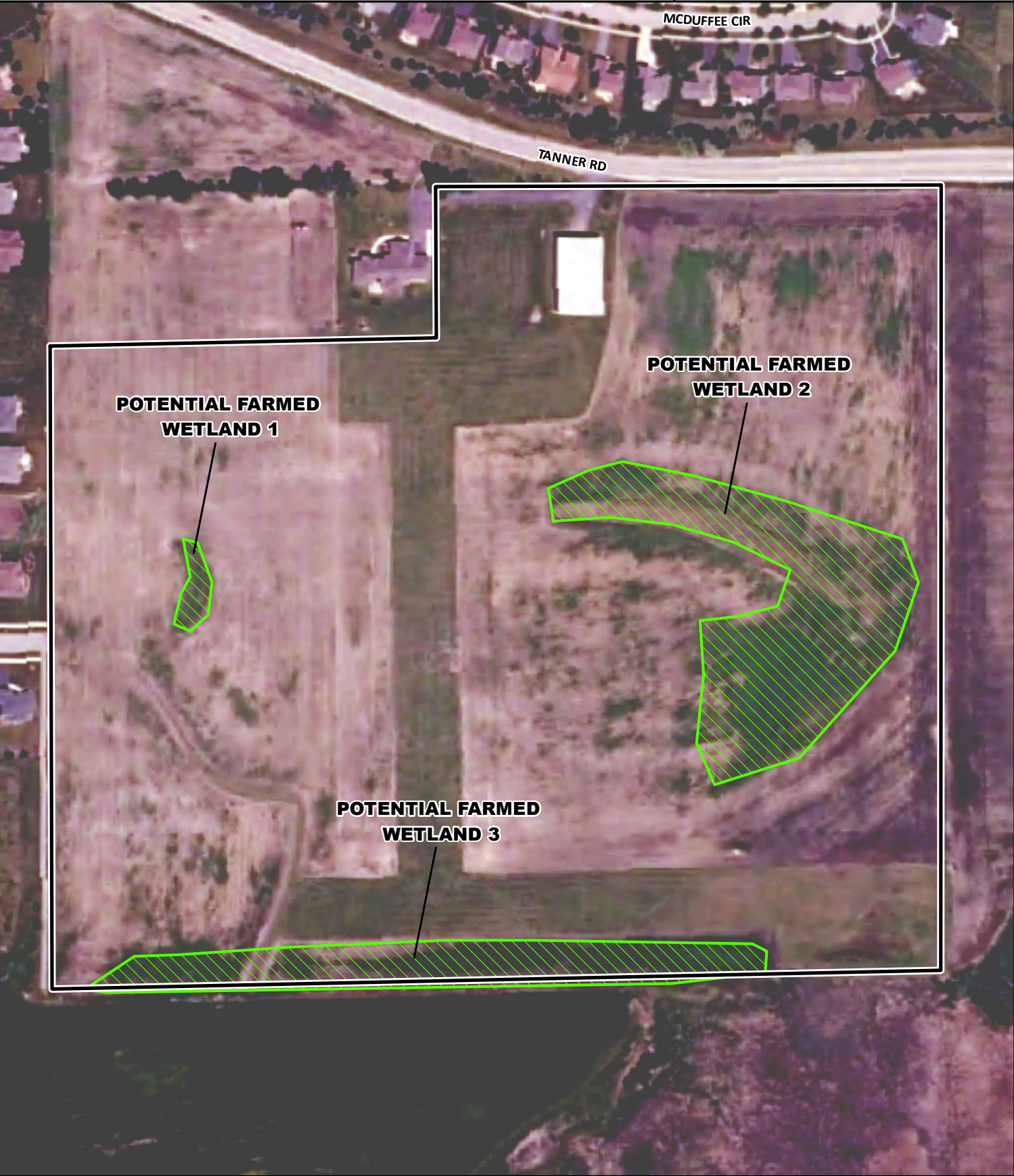
- Were cleared, drained or filled and cropped before December 23, 1985 and
- Are saturated or have enough ponded water that in most years the areas are too wet to plant or harvest, or yields are significantly reduced.

AW = artificial wetland. An AW is an area that was man-made and was not wet at the time of disturbance.

APPENDIX B



CLIENT:	TITLE:																	
CATFISH RENEWABLE ENERGY, LLC	HISTORIC AERIAL 2011	CBBEL # 26-0254																
		DATE: 6/24/2026																
CBB CHRISTOPHER B. BURKE Engineering, Ltd. 9575 W. Higgins Road, Suite 600, Rosemont, Illinois 60018 (847)823-0500	<table><tr><td>DSGN.</td><td></td><td>SCALE:</td><td>1" = 217.08'</td></tr><tr><td>DWN.</td><td>KEK</td><td>USER:</td><td>KKOPIJA</td></tr><tr><td>CHKD.</td><td>JMA</td><td>PLOT DATE:</td><td>6/24/2026</td></tr><tr><td>FILE NAME:</td><td colspan="3">260254_2011</td></tr></table>	DSGN.		SCALE:	1" = 217.08'	DWN.	KEK	USER:	KKOPIJA	CHKD.	JMA	PLOT DATE:	6/24/2026	FILE NAME:	260254_2011			2011
DSGN.		SCALE:	1" = 217.08'															
DWN.	KEK	USER:	KKOPIJA															
CHKD.	JMA	PLOT DATE:	6/24/2026															
FILE NAME:	260254_2011																	



CLIENT:		TITLE:			
CATFISH RENEWABLE ENERGY, LLC		HISTORIC AERIAL 2014		CBBEL # 26-0254	
				DATE: 6/24/2026	
 CHRISTOPHER B. BURKE Engineering, Ltd. 9575 W. Higgins Road, Suite 600, Rosemont, Illinois 60018 (847)823-0500				2014	
		DSGN.		SCALE:	1" = 217.08'
		DWN.	KEK	USER:	KKOPIJA
		CHKD.	JMA	PLOT DATE:	6/24/2026
		FILE NAME:	260254_2014		



CLIENT:		TITLE:			
CATFISH RENEWABLE ENERGY, LLC		HISTORIC AERIAL 2017		CBBEL # 26-0254	
				DATE: 6/24/2026	
 CHRISTOPHER B. BURKE Engineering, Ltd. 9575 W. Higgins Road, Suite 600, Rosemont, Illinois 60018 (847)823-0500				2017	
		DSGN.		SCALE:	1" = 217.08'
		DWN.	KEK	USER:	KKOPIJA
		CHKD.	JMA	PLOT DATE:	6/24/2026
		FILE NAME:	260254_2017		



CLIENT:	TITLE:																	
CATFISH RENEWABLE ENERGY, LLC	HISTORIC AERIAL 2019	CBBEL # 26-0254																
		DATE: 6/24/2026																
CBB CHRISTOPHER B. BURKE Engineering, Ltd. 9575 W. Higgins Road, Suite 600, Rosemont, Illinois 60018 (847)823-0500	<table><tr><td>DSGN.</td><td></td><td>SCALE:</td><td>1" = 217.08'</td></tr><tr><td>DWN.</td><td>KEK</td><td>USER:</td><td>KKOPIJA</td></tr><tr><td>CHKD.</td><td>JMA</td><td>PLOT DATE:</td><td>6/24/2026</td></tr><tr><td>FILE NAME:</td><td colspan="3">260254_2019</td></tr></table>	DSGN.		SCALE:	1" = 217.08'	DWN.	KEK	USER:	KKOPIJA	CHKD.	JMA	PLOT DATE:	6/24/2026	FILE NAME:	260254_2019			2019
DSGN.		SCALE:	1" = 217.08'															
DWN.	KEK	USER:	KKOPIJA															
CHKD.	JMA	PLOT DATE:	6/24/2026															
FILE NAME:	260254_2019																	

N:\Catfish\RenewableEnergy\260254\GIS\Exhibits\260254_2019.mxd



CLIENT:		TITLE:		CBBEL # 26-0254	
CATFISH RENEWABLE ENERGY, LLC		HISTORIC AERIAL 2021		DATE: 6/24/2026	
CBB CHRISTOPHER B. BURKE Engineering, Ltd. 9575 W. Higgins Road, Suite 600, Rosemont, Illinois 60018 (847)823-0500		DSGN.		SCALE:	1" = 217.08'
		DWN.	KEK	USER:	KKOPIJA
		CHKD.	JMA	PLOT DATE:	6/24/2026
		FILE NAME:	260254_2021		
2021					



CLIENT:		TITLE:		CBBEL # 26-0254	
CATFISH RENEWABLE ENERGY, LLC		HISTORIC AERIAL 2023		DATE: 6/24/2026	
	CHRISTOPHER B. BURKE Engineering, Ltd.			DSGN.	1" = 217.08'
	9575 W. Higgins Road, Suite 600, Rosemont, Illinois 60018 (847)823-0500			DWN. KEK	USER: KKOPJA
				CHKD. JMA	PLOT DATE: 6/24/2026
				FILE NAME: 260254_2023	
					2023

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APPENDIX C

Antecedent Precipitation Tool v3.0 - Watershed Sampling Summary

Generated on 2026-06-18

User Inputs

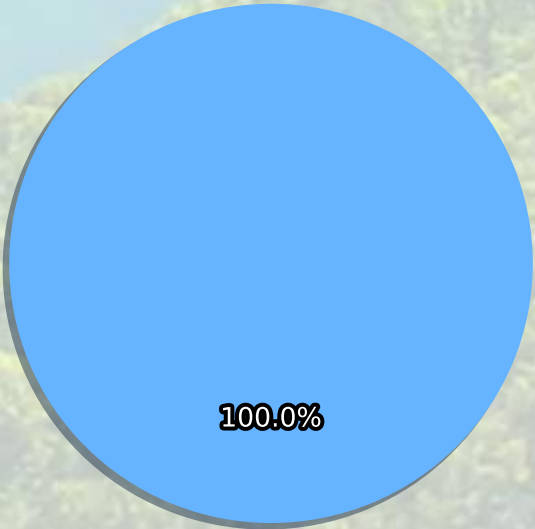
Coordinates	41.80789, -88.38851
Date	2011-08-02
Geographic Scope	HUC12
Used Gridded Precipitaton	False

Intermediate Data

Hydrologic Unit Code	071200070201
Watershed Size	44.27 mi ²
# Random Sampling Points	5

Preliminary Result

Average Antecedent Precipitation Score	17.0
Preliminary Determination	Wetter than Normal

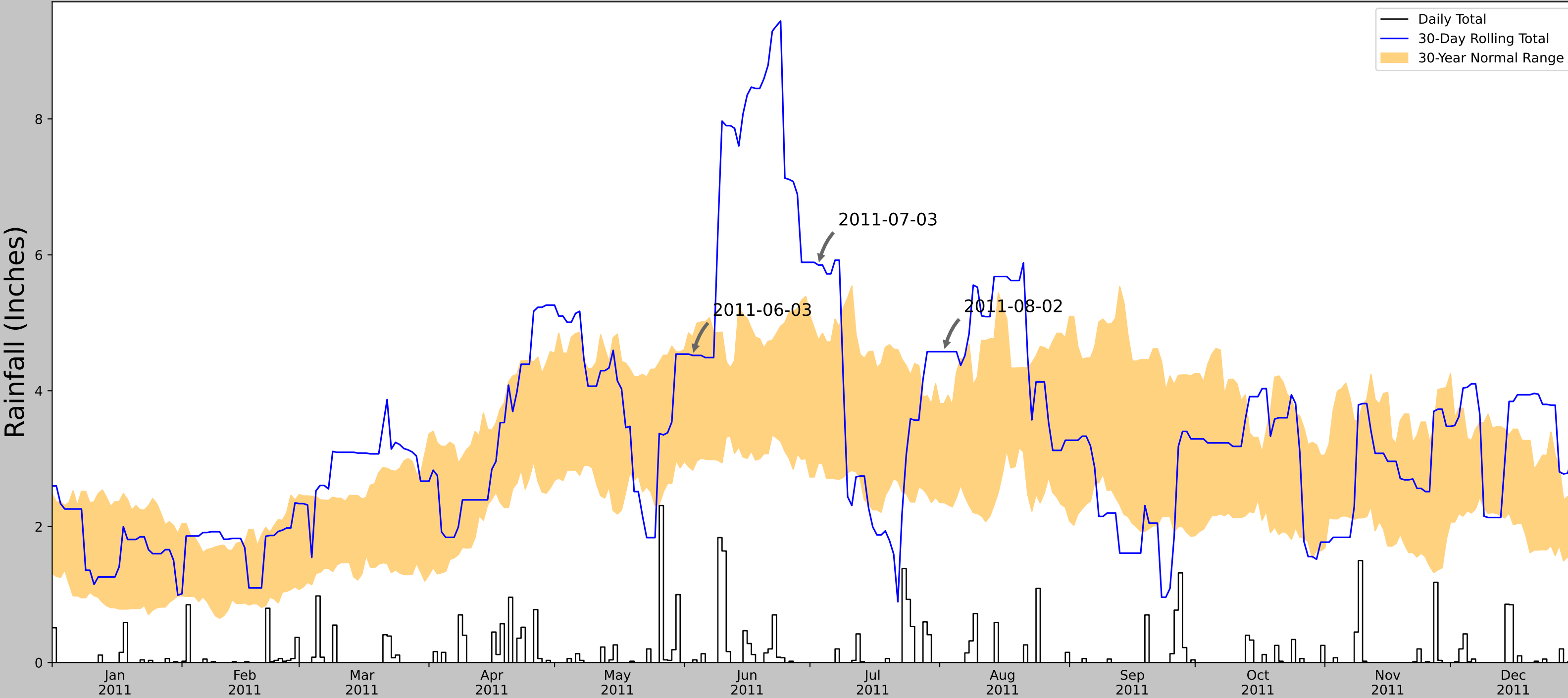


Wetter than Normal

Sampling Point Breakdown

Antecedent Precipitation Score	Antecedent Precipitation Condition	WebWIMP H ₂ O Balance	Drought Index (PDSI)	# of Points
17	Wetter than Normal	Dry Season	Moderate wetness	5

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	41.80789, -88.38851
Observation Date	2011-08-02
Elevation (ft)	765.9
Drought Index (PDSI)	Moderate wetness
WebWIMP H ₂ O Balance	Dry Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2011-08-02	2.355118	3.809055	4.574803	Wet	3	3	9
2011-07-03	2.932284	4.743701	5.850394	Wet	3	2	6
2011-06-03	2.832677	4.794488	4.519685	Normal	2	1	2
Result							Wetter than Normal - 17



US Army Corps
of Engineers.



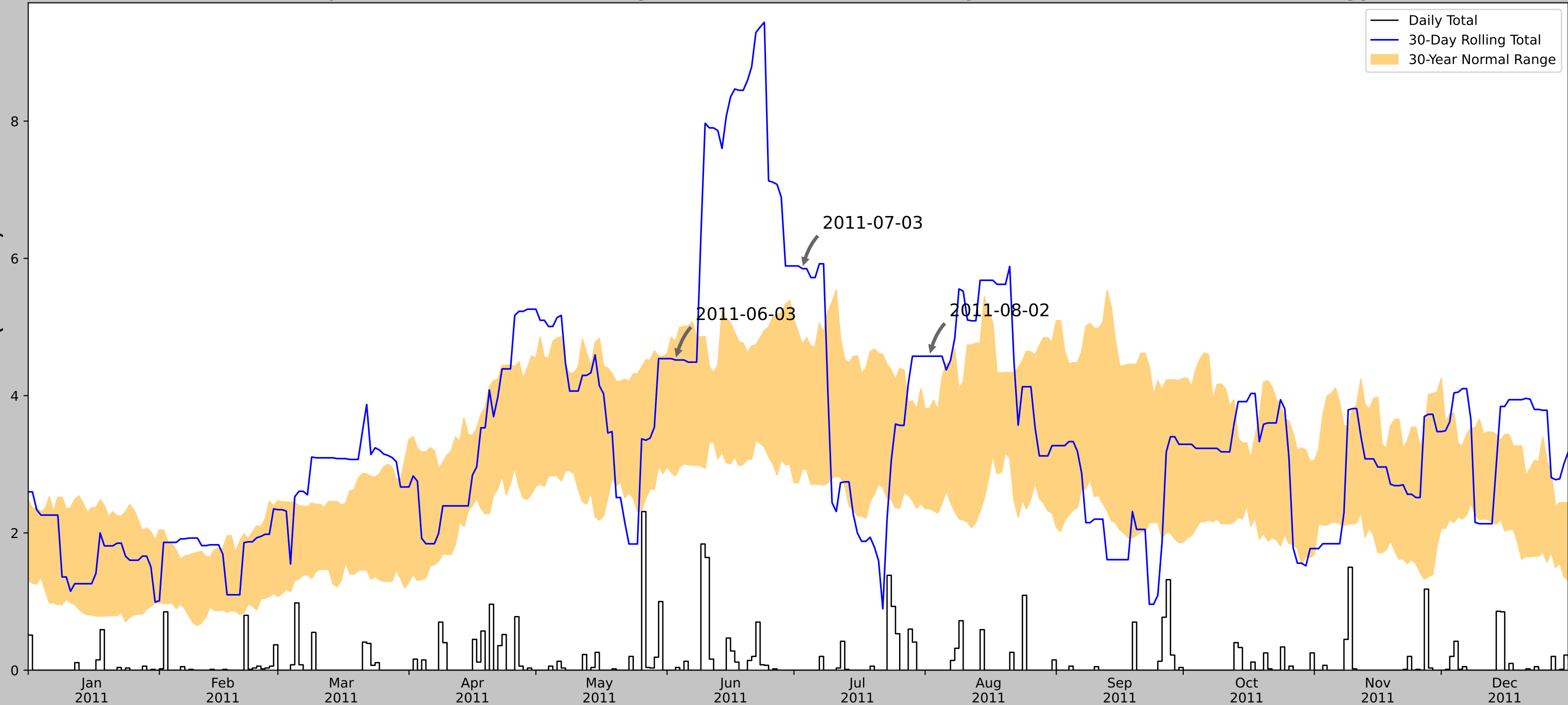
Figures and tables made by the
Antecedent Precipitation Tool
Version 3.0

Developed by:
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Development Center

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
AURORA WATER	41.7803, -88.3092	674.869	4.508	91.031	2.439	11025	90
CHICAGO AURORA MUNI AP	41.7714, -88.4814	701.116	8.894	26.247	4.236	5	0
WHEATON 3 SE	41.8128, -88.0728	680.118	12.382	5.249	5.637	292	0
ELGIN WATER	42.0628, -88.2861	745.079	19.555	70.21	10.173	31	0

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network

Rainfall (Inches)



Coordinates	41.76729, -88.432468
Observation Date	2011-08-02
Elevation (ft)	697.978
Drought Index (PDSI)	Moderate wetness
WebWIMP H ₂ O Balance	Dry Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2011-08-02	2.355118	3.809055	4.574803	Wet	3	3	9
2011-07-03	2.932284	4.743701	5.850394	Wet	3	2	6
2011-06-03	2.832677	4.794488	4.519685	Normal	2	1	2
Result							Wetter than Normal - 17

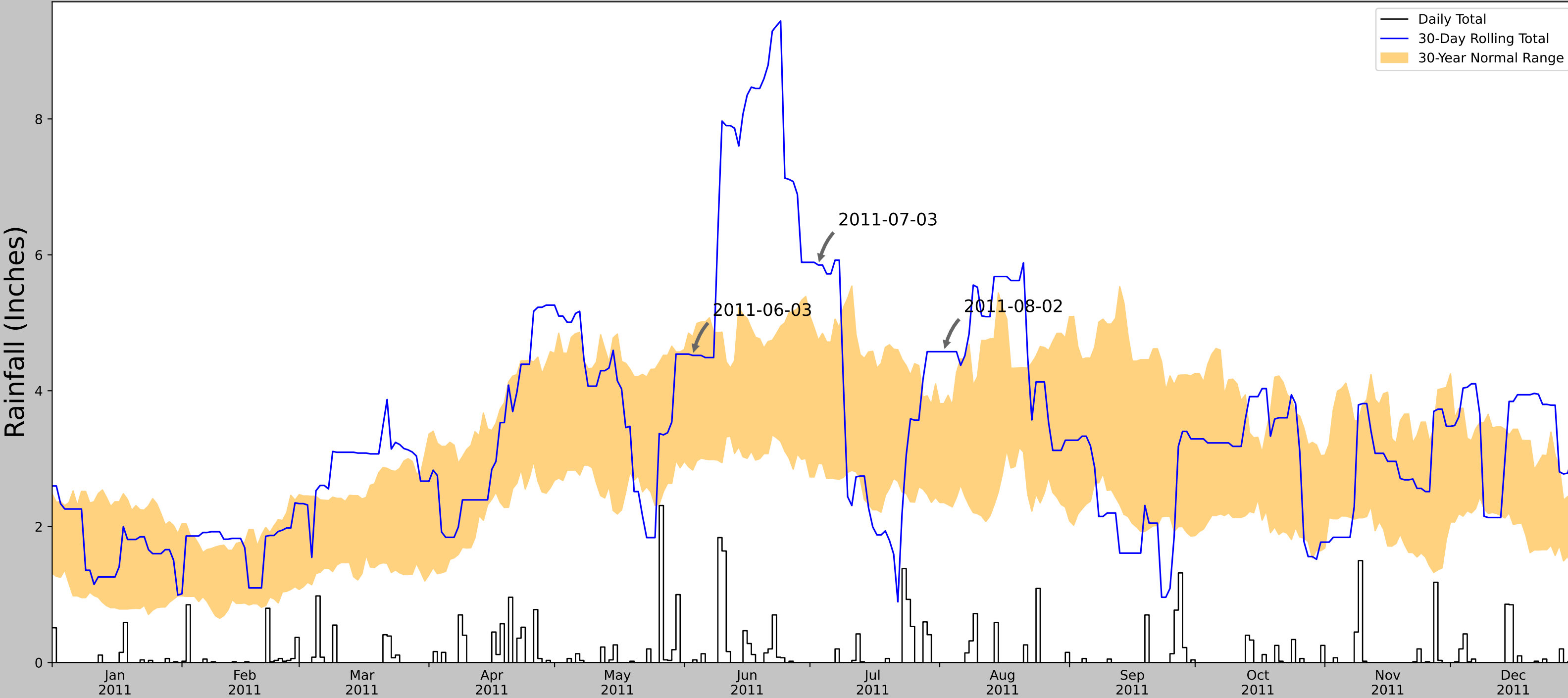
Figures and tables made by the
Antecedent Precipitation Tool
Version 3.0



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Development Center

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
AURORA WATER	41.7803, -88.3092	674.869	6.415	23.109	3.035	11025	90
CHICAGO AURORA MUNI AP	41.7714, -88.4814	701.116	8.894	26.247	4.236	5	0
WHEATON 3 SE	41.8128, -88.0728	680.118	12.382	5.249	5.637	292	0
ELGIN WATER	42.0628, -88.2861	745.079	19.555	70.21	10.173	31	0

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	41.822819, -88.399077
Observation Date	2011-08-02
Elevation (ft)	695.024
Drought Index (PDSI)	Moderate wetness
WebWIMP H ₂ O Balance	Dry Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2011-08-02	2.355118	3.809055	4.574803	Wet	3	3	9
2011-07-03	2.932284	4.743701	5.850394	Wet	3	2	6
2011-06-03	2.832677	4.794488	4.519685	Normal	2	1	2
Result							Wetter than Normal - 17



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of Engineers.

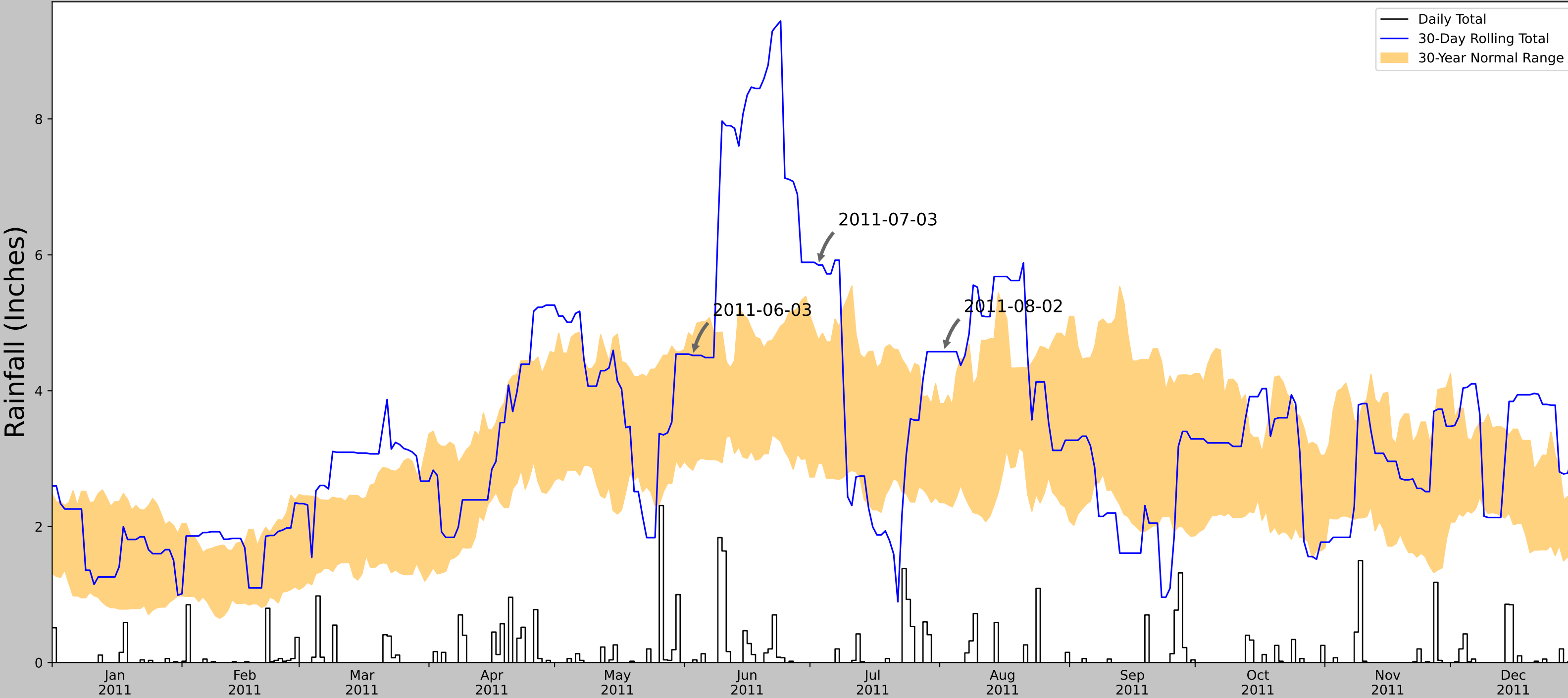


Figures and tables made by the
Antecedent Precipitation Tool
Version 3.0

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Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
AURORA WATER	41.7803, -88.3092	674.869	5.483	20.155	2.578	11025	90
CHICAGO AURORA MUNI AP	41.7714, -88.4814	701.116	8.894	26.247	4.236	5	0
WHEATON 3 SE	41.8128, -88.0728	680.118	12.382	5.249	5.637	292	0
ELGIN WATER	42.0628, -88.2861	745.079	19.555	70.21	10.173	31	0

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	41.868342, -88.45311
Observation Date	2011-08-02
Elevation (ft)	800.84
Drought Index (PDSI)	Moderate wetness
WebWIMP H ₂ O Balance	Dry Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2011-08-02	2.355118	3.809055	4.574803	Wet	3	3	9
2011-07-03	2.932284	4.743701	5.850394	Wet	3	2	6
2011-06-03	2.832677	4.794488	4.519685	Normal	2	1	2
Result							Wetter than Normal - 17



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of Engineers.

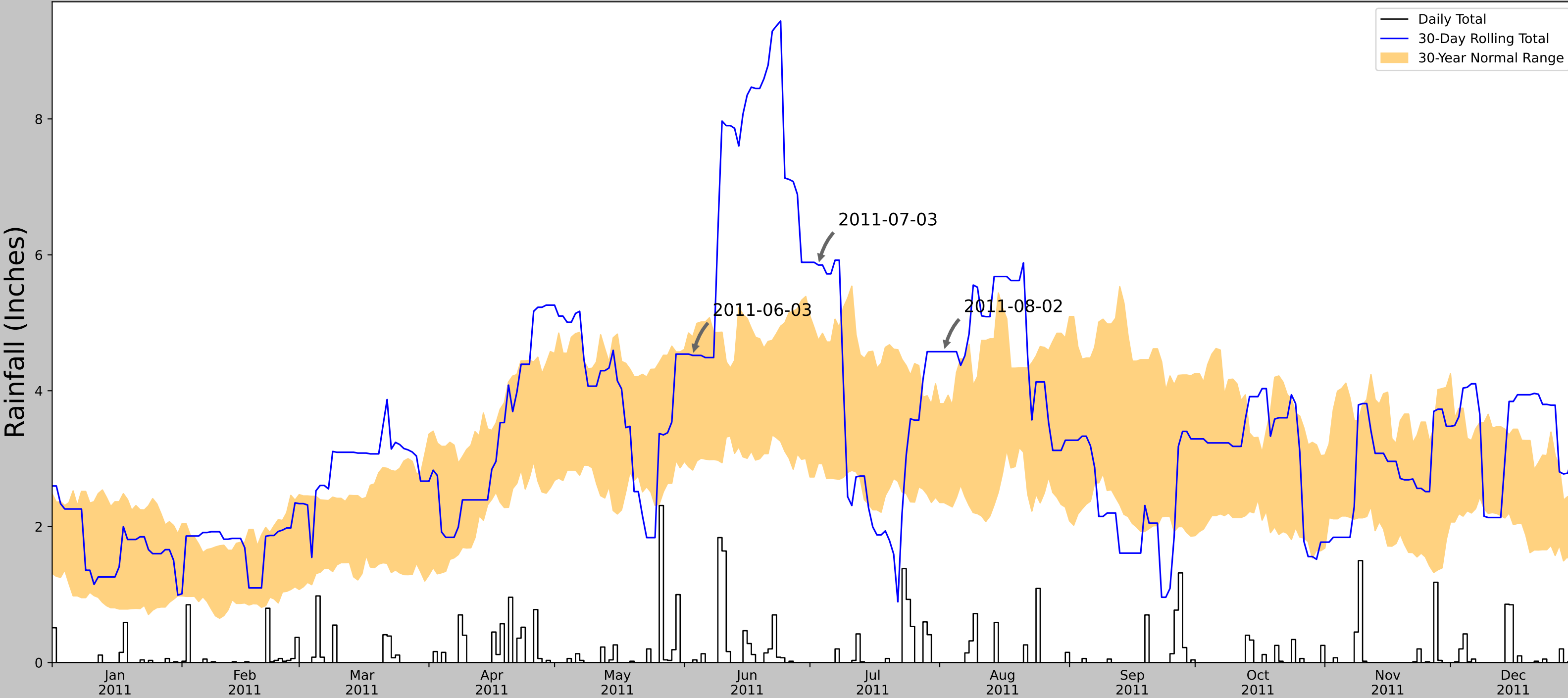


Figures and tables made by the
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Development Center

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
AURORA WATER	41.7803, -88.3092	674.869	9.587	125.971	5.522	11025	90
CHICAGO AURORA MUNI AP	41.7714, -88.4814	701.116	8.894	26.247	4.236	5	0
WHEATON 3 SE	41.8128, -88.0728	680.118	12.382	5.249	5.637	292	0
ELGIN WATER	42.0628, -88.2861	745.079	19.555	70.21	10.173	31	0

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	41.814468, -88.483651
Observation Date	2011-08-02
Elevation (ft)	757.363
Drought Index (PDSI)	Moderate wetness
WebWIMP H ₂ O Balance	Dry Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2011-08-02	2.355118	3.809055	4.574803	Wet	3	3	9
2011-07-03	2.932284	4.743701	5.850394	Wet	3	2	6
2011-06-03	2.832677	4.794488	4.519685	Normal	2	1	2
Result							Wetter than Normal - 17



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of Engineers.



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Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
AURORA WATER	41.7803, -88.3092	674.869	9.291	82.494	4.947	11025	90
CHICAGO AURORA MUNI AP	41.7714, -88.4814	701.116	8.894	26.247	4.236	5	0
WHEATON 3 SE	41.8128, -88.0728	680.118	12.382	5.249	5.637	292	0
ELGIN WATER	42.0628, -88.2861	745.079	19.555	70.21	10.173	31	0

Antecedent Precipitation Tool v3.0 - Watershed Sampling Summary

Generated on 2026-06-18

User Inputs

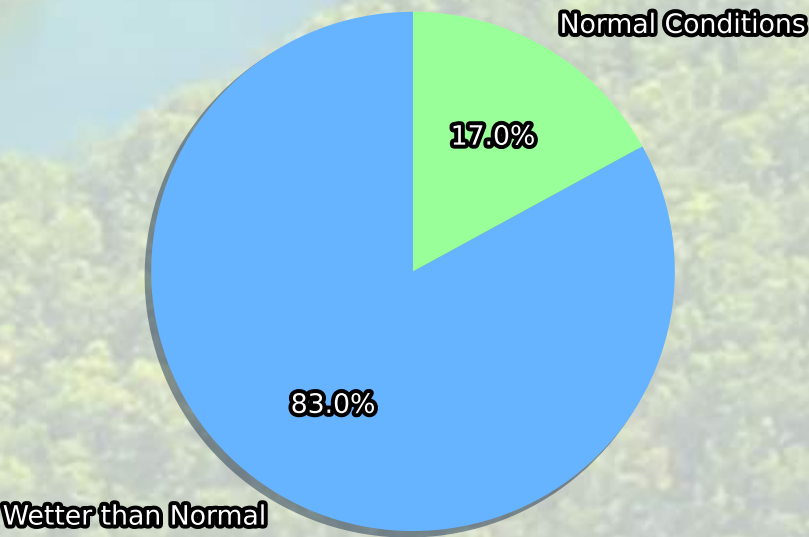
Coordinates	41.80789, -88.38851
Date	2014-06-13
Geographic Scope	HUC12
Used Gridded Precipitaton	False

Intermediate Data

Hydrologic Unit Code	071200070201
Watershed Size	44.27 mi ²
# Random Sampling Points	6

Preliminary Result

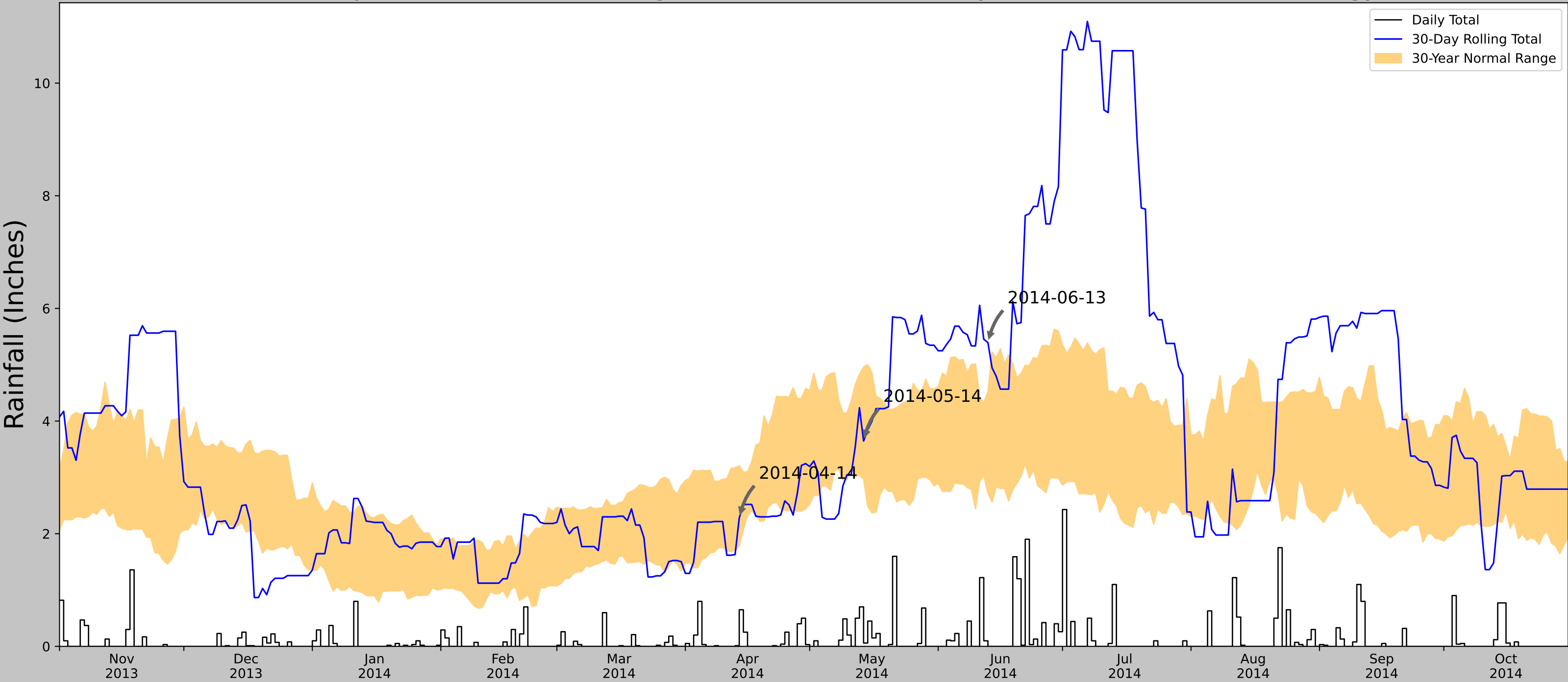
Average Antecedent Precipitation Score	14.17
Preliminary Determination	Normal Conditions



Sampling Point Breakdown

Antecedent Precipitation Score	Antecedent Precipitation Condition	WebWIMP H ₂ O Balance	Drought Index (PDSI)	# of Points
15	Wetter than Normal	Dry Season	Mild wetness	5
10	Normal Conditions	Dry Season	Mild wetness	1

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	41.80789, -88.38851
Observation Date	2014-06-13
Elevation (ft)	755.185
Drought Index (PDSI)	Mild wetness
WebWIMP H ₂ O Balance	Dry Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2014-06-13	2.725984	4.520473	5.393701	Wet	3	3	9
2014-05-14	2.967717	4.96063	3.645669	Normal	2	2	4
2014-04-14	1.782677	3.206299	2.279528	Normal	2	1	2
Result							Wetter than Normal - 15



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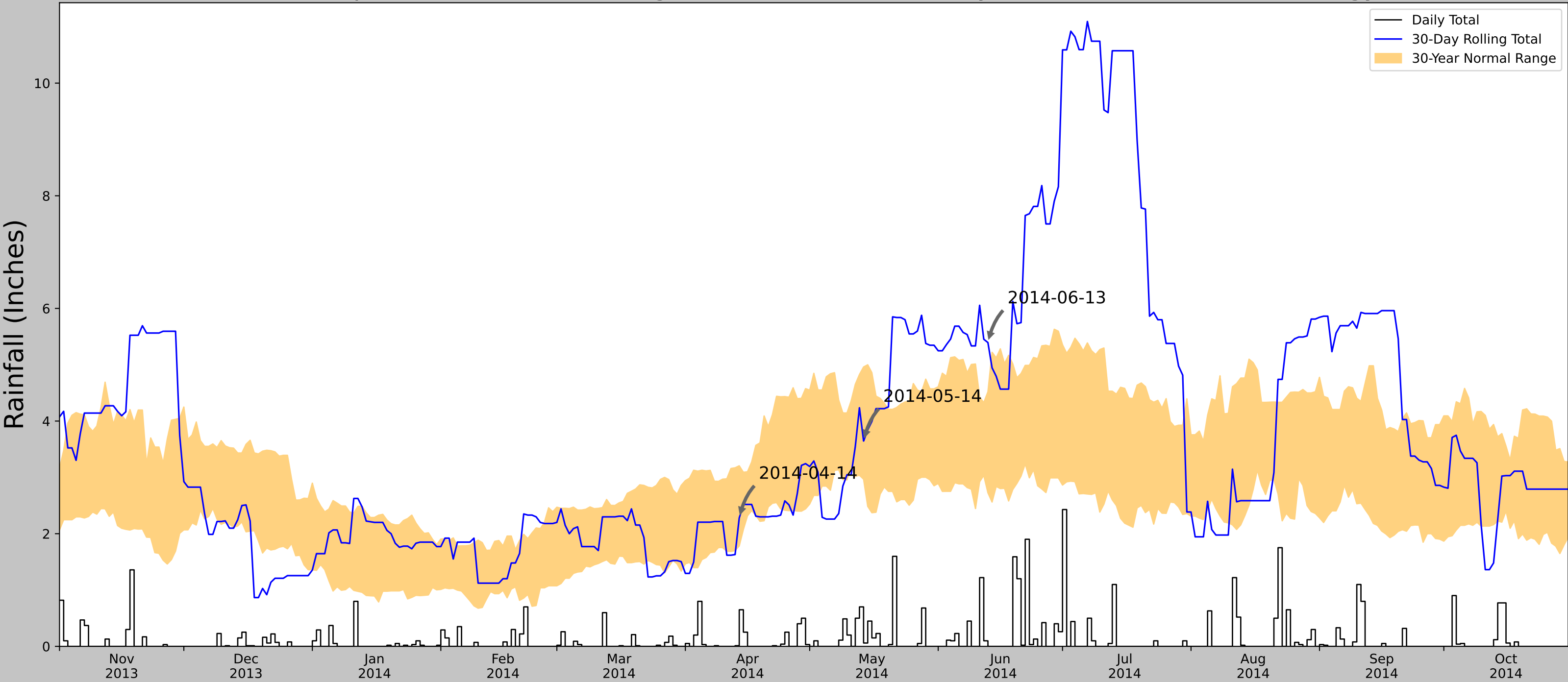
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Antecedent Precipitation Tool
Version 3.0

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Development Center

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
AURORA WATER	41.7803, -88.3092	674.869	4.508	80.316	2.391	11081	88
AURORA 3.4 W	41.7723, -88.3577	689.961	2.559	15.092	1.19	4	2
NORTH AURORA 1.5 NE	41.8163, -88.3068	719.16	2.49	44.291	1.231	1	0
CHICAGO AURORA MUNI AP	41.7714, -88.4814	701.116	8.894	26.247	4.236	5	0
WHEATON 3 SE	41.8128, -88.0728	680.118	12.382	5.249	5.637	231	0
ELGIN WATER	42.0628, -88.2861	745.079	19.555	70.21	10.173	31	0

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	41.768179, -88.425544
Observation Date	2014-06-13
Elevation (ft)	704.185
Drought Index (PDSI)	Mild wetness
WebWIMP H ₂ O Balance	Dry Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2014-06-13	2.725984	4.520473	5.393701	Wet	3	3	9
2014-05-14	2.967717	4.96063	3.645669	Normal	2	2	4
2014-04-14	1.782677	3.206299	2.279528	Normal	2	1	2
Result							Wetter than Normal - 15



**US Army Corps
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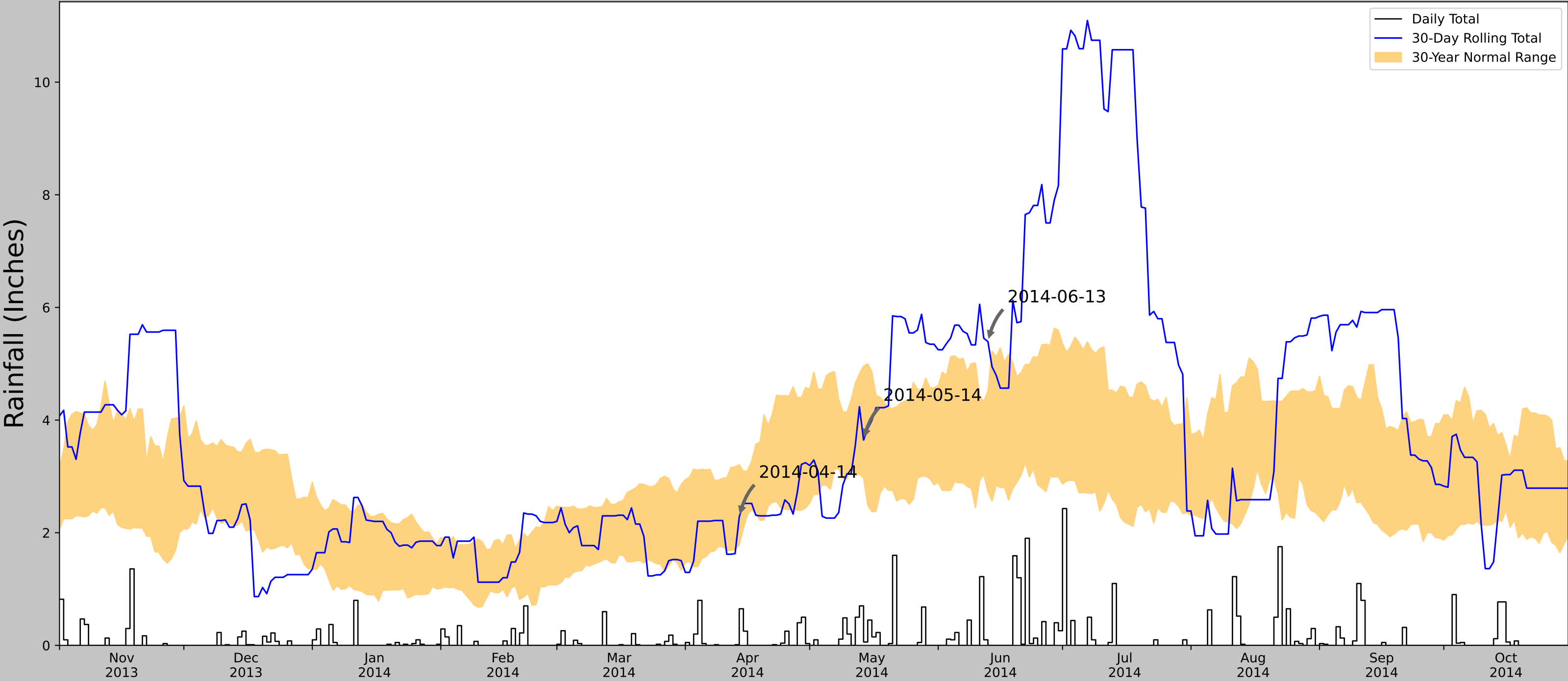
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Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
AURORA WATER	41.7803, -88.3092	674.869	6.053	29.316	2.901	11081	88
AURORA 3.4 W	41.7723, -88.3577	689.961	2.559	15.092	1.19	4	2
NORTH AURORA 1.5 NE	41.8163, -88.3068	719.16	2.49	44.291	1.231	1	0
CHICAGO AURORA MUNI AP	41.7714, -88.4814	701.116	8.894	26.247	4.236	5	0
WHEATON 3 SE	41.8128, -88.0728	680.118	12.382	5.249	5.637	231	0
ELGIN WATER	42.0628, -88.2861	745.079	19.555	70.21	10.173	31	0

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	41.829499, -88.489282
Observation Date	2014-06-13
Elevation (ft)	785.243
Drought Index (PDSI)	Mild wetness
WebWIMP H ₂ O Balance	Dry Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2014-06-13	2.725984	4.520473	5.393701	Wet	3	3	9
2014-05-14	2.967717	4.96063	3.645669	Normal	2	2	4
2014-04-14	1.782677	3.206299	2.279528	Normal	2	1	2
Result							Wetter than Normal - 15



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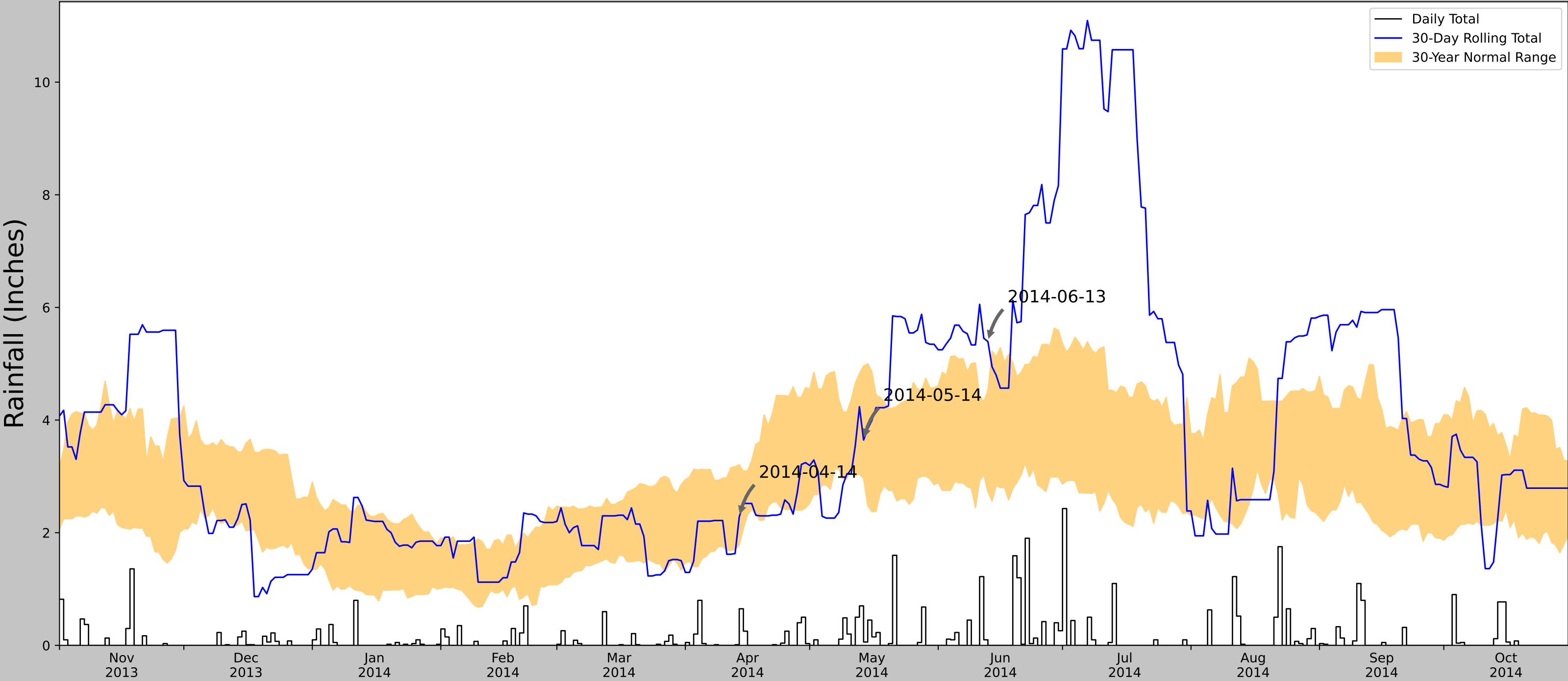
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Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
AURORA WATER	41.7803, -88.3092	674.869	9.878	110.374	5.535	11081	88
AURORA 3.4 W	41.7723, -88.3577	689.961	2.559	15.092	1.19	4	2
NORTH AURORA 1.5 NE	41.8163, -88.3068	719.16	2.49	44.291	1.231	1	0
CHICAGO AURORA MUNI AP	41.7714, -88.4814	701.116	8.894	26.247	4.236	5	0
WHEATON 3 SE	41.8128, -88.0728	680.118	12.382	5.249	5.637	231	0
ELGIN WATER	42.0628, -88.2861	745.079	19.555	70.21	10.173	31	0

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	41.855234, -88.420132
Observation Date	2014-06-13
Elevation (ft)	784.569
Drought Index (PDSI)	Mild wetness
WebWIMP H ₂ O Balance	Dry Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2014-06-13	2.725984	4.520473	5.393701	Wet	3	3	9
2014-05-14	2.967717	4.96063	3.645669	Normal	2	2	4
2014-04-14	1.782677	3.206299	2.279528	Normal	2	1	2
Result							Wetter than Normal - 15



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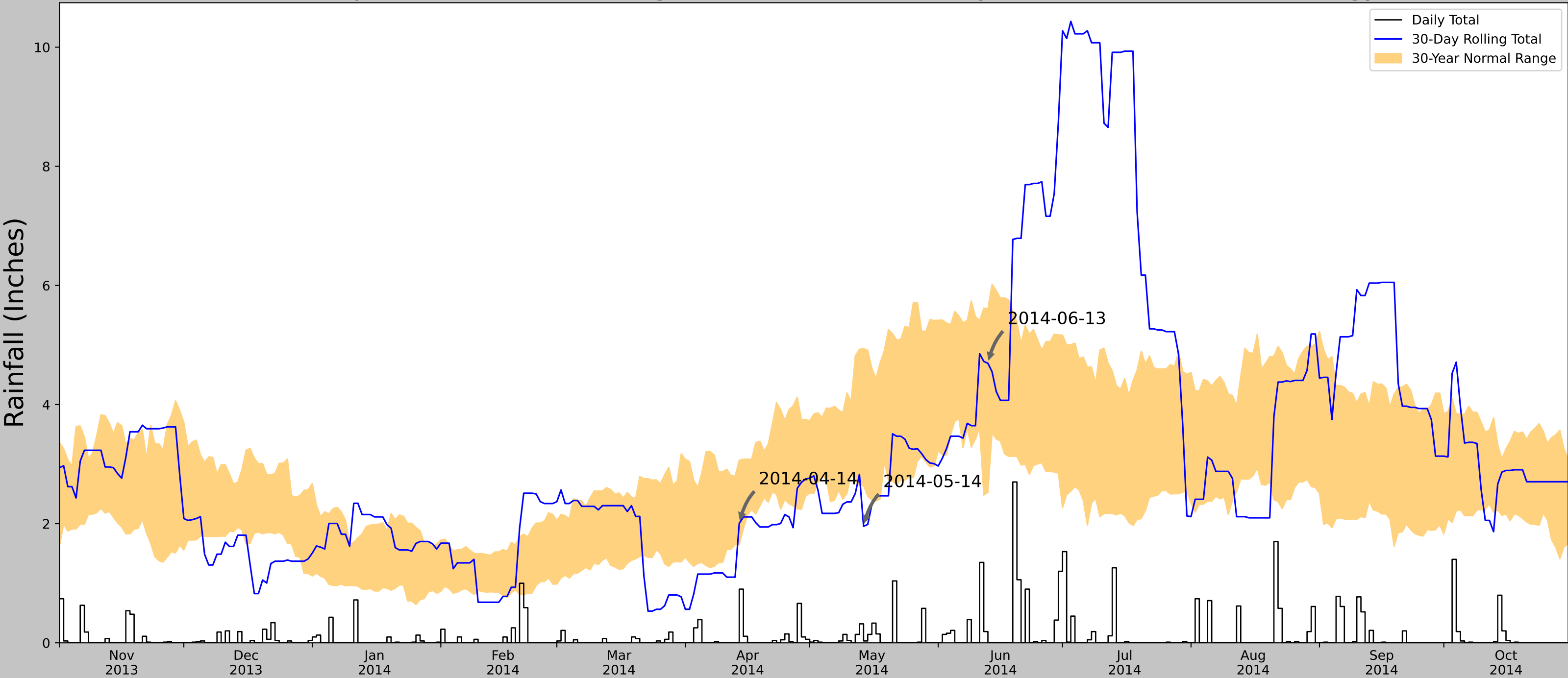
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Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
AURORA WATER	41.7803, -88.3092	674.869	7.709	109.7	4.315	11081	88
AURORA 3.4 W	41.7723, -88.3577	689.961	2.559	15.092	1.19	4	2
NORTH AURORA 1.5 NE	41.8163, -88.3068	719.16	2.49	44.291	1.231	1	0
CHICAGO AURORA MUNI AP	41.7714, -88.4814	701.116	8.894	26.247	4.236	5	0
WHEATON 3 SE	41.8128, -88.0728	680.118	12.382	5.249	5.637	231	0
ELGIN WATER	42.0628, -88.2861	745.079	19.555	70.21	10.173	31	0

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	41.914907, -88.451748
Observation Date	2014-06-13
Elevation (ft)	892.648
Drought Index (PDSI)	Mild wetness
WebWIMP H ₂ O Balance	Dry Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2014-06-13	2.52441	5.610236	4.692914	Normal	2	3	6
2014-05-14	2.637795	4.93937	1.956693	Dry	1	2	2
2014-04-14	1.647638	3.064961	2.003937	Normal	2	1	2
Result							Normal Conditions - 10



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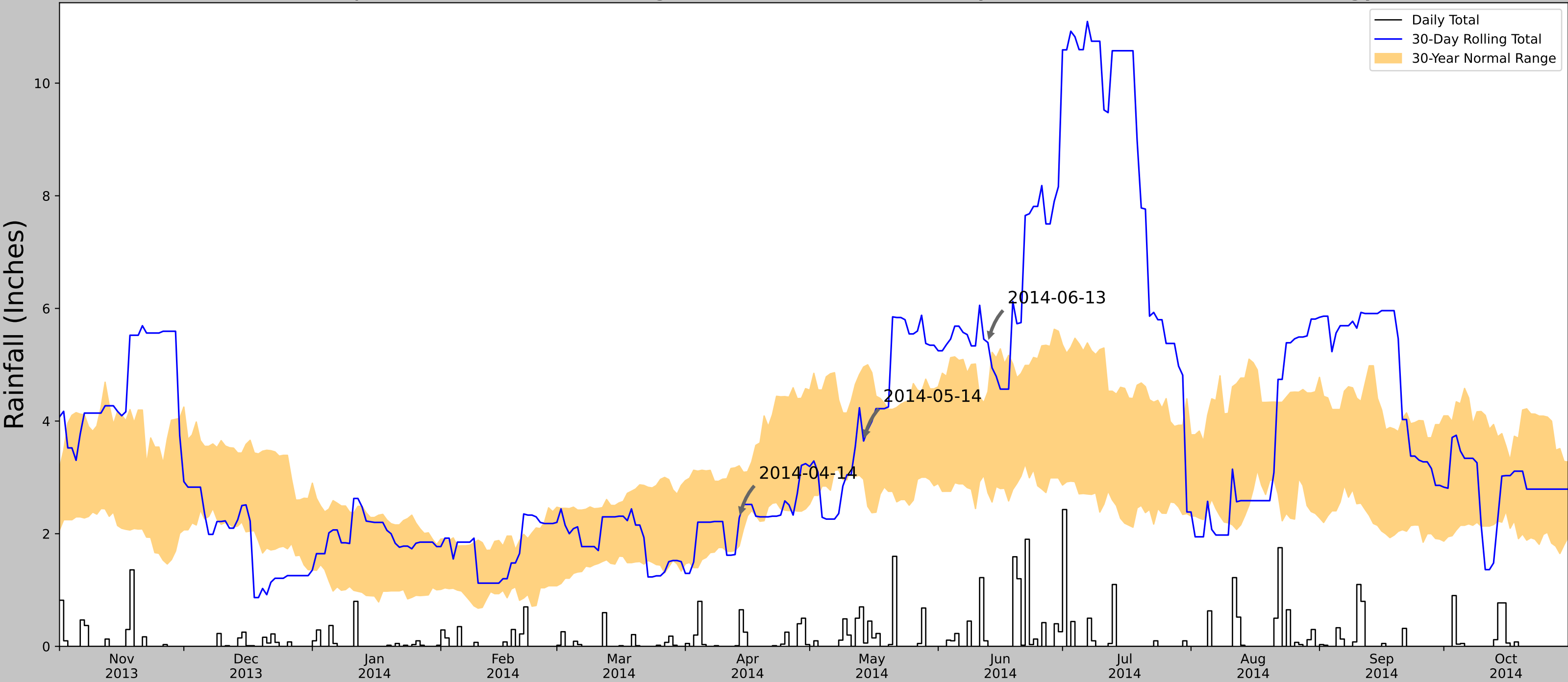
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Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
DE KALB	41.9342, -88.7756	877.953	16.702	14.695	7.761	10984	90
DE KALB 1.4 W	41.9292, -88.7791	881.89	0.39	3.937	0.177	9	0
DE KALB 0.3 ENE	41.9324, -88.747	895.997	1.475	18.044	0.69	2	0
GENOA 2SW	42.0742, -88.7075	826.116	10.286	51.837	5.162	64	0
SHABBONA 3S	41.7328, -88.8642	850.066	14.644	27.887	6.998	31	0
PAW PAW 2S	41.6653, -88.9781	889.108	21.307	11.155	9.826	233	0
MARENGO	42.2636, -88.6078	814.961	24.331	62.992	12.482	30	0

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	41.810554, -88.372122
Observation Date	2014-06-13
Elevation (ft)	715.479
Drought Index (PDSI)	Mild wetness
WebWIMP H ₂ O Balance	Dry Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2014-06-13	2.725984	4.520473	5.393701	Wet	3	3	9
2014-05-14	2.967717	4.96063	3.645669	Normal	2	2	4
2014-04-14	1.782677	3.206299	2.279528	Normal	2	1	2
Result							Wetter than Normal - 15



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Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
AURORA WATER	41.7803, -88.3092	674.869	3.857	40.61	1.892	11081	88
AURORA 3.4 W	41.7723, -88.3577	689.961	2.559	15.092	1.19	4	2
NORTH AURORA 1.5 NE	41.8163, -88.3068	719.16	2.49	44.291	1.231	1	0
CHICAGO AURORA MUNI AP	41.7714, -88.4814	701.116	8.894	26.247	4.236	5	0
WHEATON 3 SE	41.8128, -88.0728	680.118	12.382	5.249	5.637	231	0
ELGIN WATER	42.0628, -88.2861	745.079	19.555	70.21	10.173	31	0

Antecedent Precipitation Tool v3.0 - Watershed Sampling Summary

Generated on 2026-06-18

User Inputs

Coordinates	41.80789, -88.38851
Date	2017-07-02
Geographic Scope	HUC12
Used Gridded Precipitaton	False

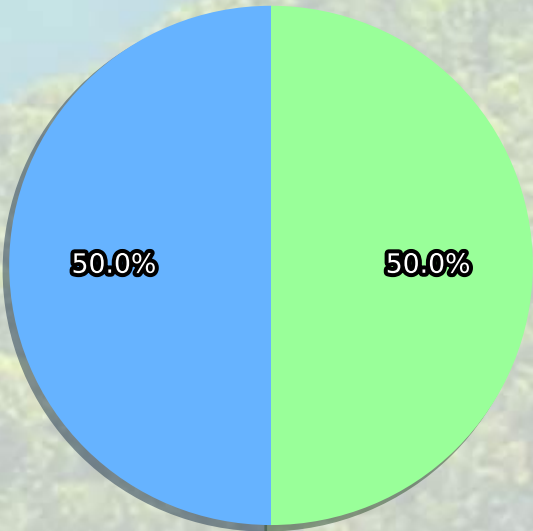
Intermediate Data

Hydrologic Unit Code	071200070201
Watershed Size	44.27 mi ²
# Random Sampling Points	6

Preliminary Result

Average Antecedent Precipitation Score	13.5
Preliminary Determination	Normal Conditions

Wetter than Normal

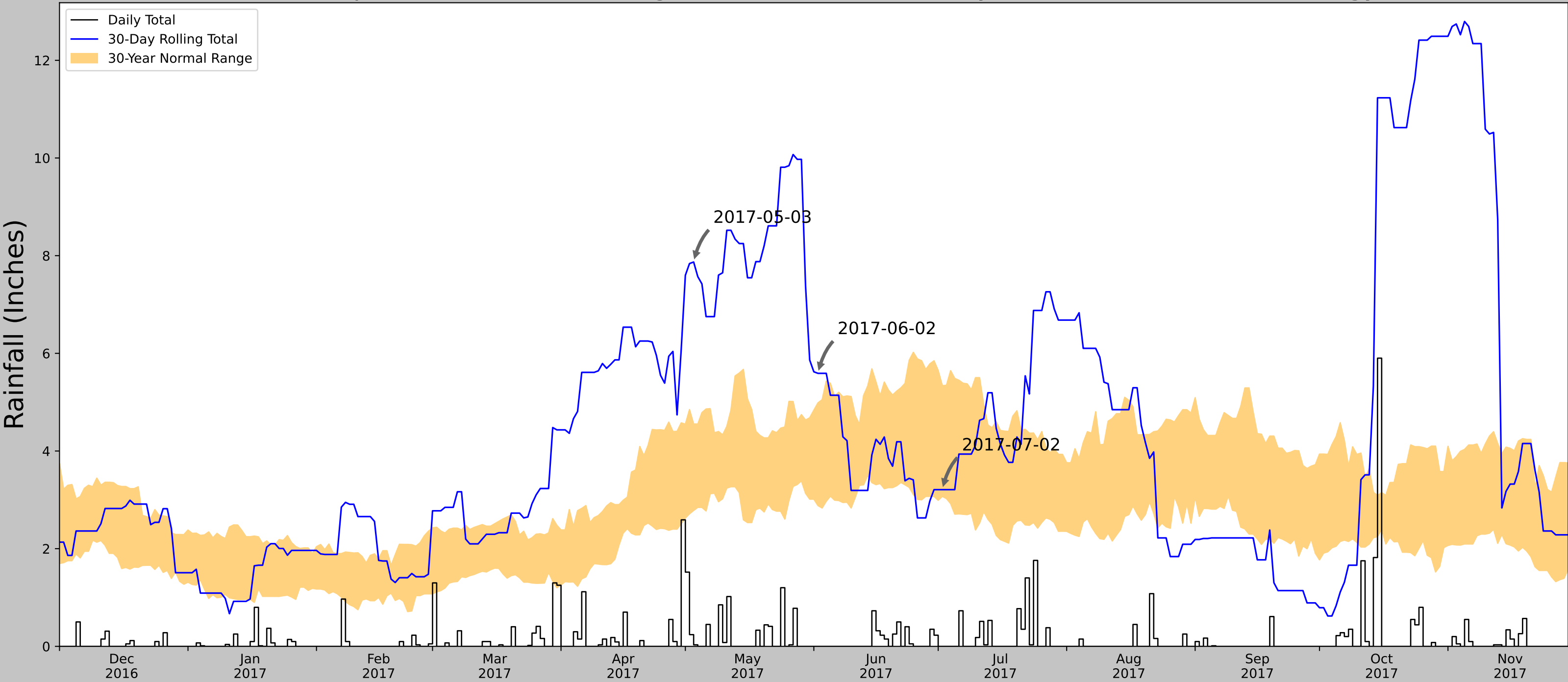


Normal Conditions

Sampling Point Breakdown

Antecedent Precipitation Score	Antecedent Precipitation Condition	WebWIMP H ₂ O Balance	Drought Index (PDSI)	# of Points
15	Wetter than Normal	Dry Season	Extreme wetness	3
13	Normal Conditions	Dry Season	Extreme wetness	2
10	Normal Conditions	Dry Season	Extreme wetness	1

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	41.80789, -88.38851
Observation Date	2017-07-02
Elevation (ft)	959.981
Drought Index (PDSI)	Extreme wetness
WebWIMP H ₂ O Balance	Dry Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2017-07-02	3.070866	5.338583	3.208662	Normal	2	3	6
2017-06-02	2.882284	4.986221	5.590551	Wet	3	2	6
2017-05-03	2.782677	4.553937	7.870079	Wet	3	1	3
Result							Wetter than Normal - 15



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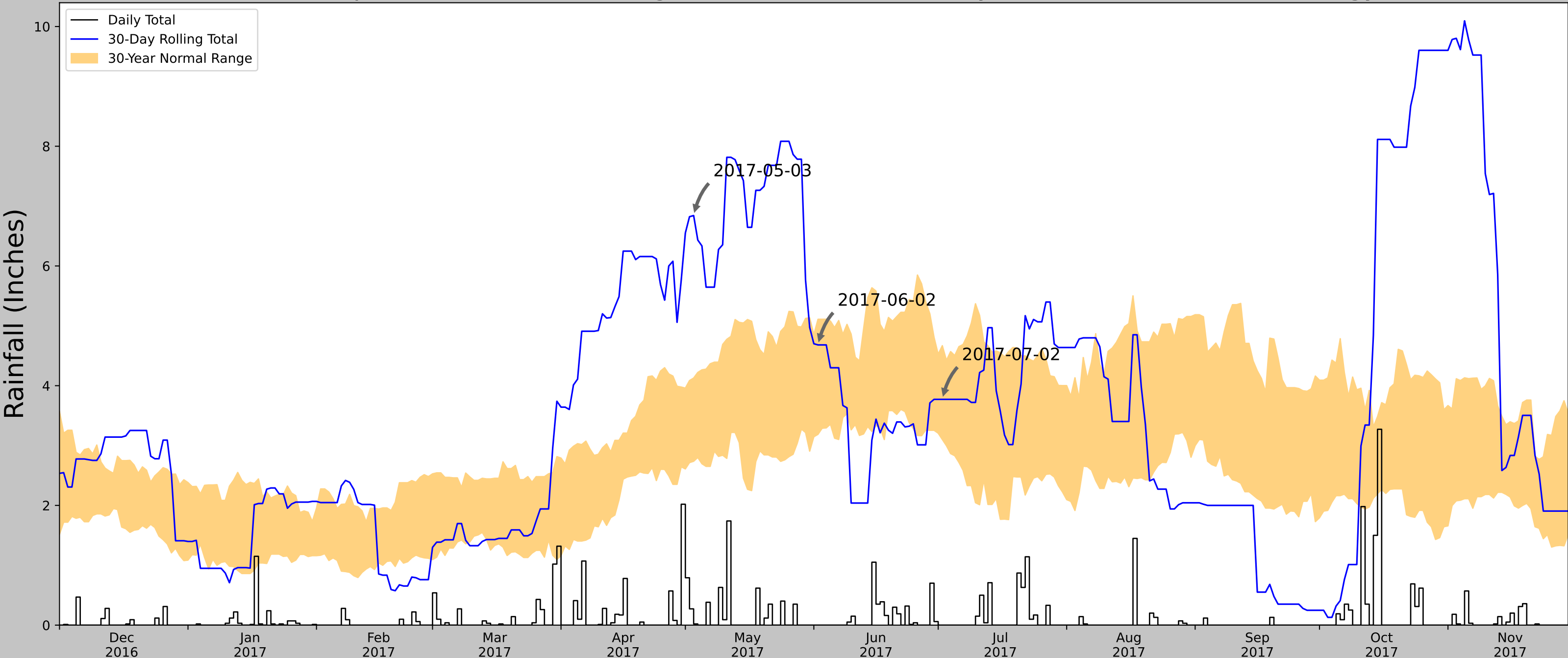


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Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
AURORA WATER	41.7803, -88.3092	674.869	4.508	285.112	3.314	11079	90
AURORA 3.4 W	41.7723, -88.3577	689.961	2.559	15.092	1.19	6	0
NORTH AURORA 1.5 NE	41.8163, -88.3068	719.16	2.49	44.291	1.231	2	0
CHICAGO AURORA MUNI AP	41.7714, -88.4814	701.116	8.894	26.247	4.236	5	0
WHEATON 3 SE	41.8128, -88.0728	680.118	12.382	5.249	5.637	230	0
ELGIN WATER	42.0628, -88.2861	745.079	19.555	70.21	10.173	31	0

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	41.864315, -88.458459
Observation Date	2017-07-02
Elevation (ft)	772.158
Drought Index (PDSI)	Extreme wetness
WebWIMP H ₂ O Balance	Dry Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2017-07-02	3.100788	4.669291	3.771654	Normal	2	3	6
2017-06-02	3.186614	5.110236	4.681103	Normal	2	2	4
2017-05-03	2.737008	4.127953	6.84252	Wet	3	1	3
Result							Normal Conditions - 13

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
ELBURN	41.8742, -88.4728	870.079	1.005	97.921	0.551	6039	90
ELBURN 0.3 NW	41.8939, -88.4761	854.987	1.372	15.092	0.638	45	0
ELBURN 2.7 NNE	41.9279, -88.4562	937.992	3.807	67.913	1.972	2	0
LILY LAKE 2.1 E	41.945, -88.4382	862.861	5.205	7.218	2.38	2	0
ST CHARLES 7 NW	41.9603, -88.4228	870.079	6.481	0.0	2.916	120	0
CHICAGO AURORA MUNI AP	41.7714, -88.4814	701.116	7.117	168.963	4.405	349	0
HAMPSHIRE 8 SE	42.0581, -88.4586	939.961	12.727	69.882	6.617	852	0
AURORA WATER	41.7803, -88.3092	674.869	10.632	195.21	6.86	3683	0
DE KALB	41.9342, -88.7756	877.953	16.113	7.874	7.378	230	0
ELGIN WATER	42.0628, -88.2861	745.079	16.18	125.0	9.303	31	0



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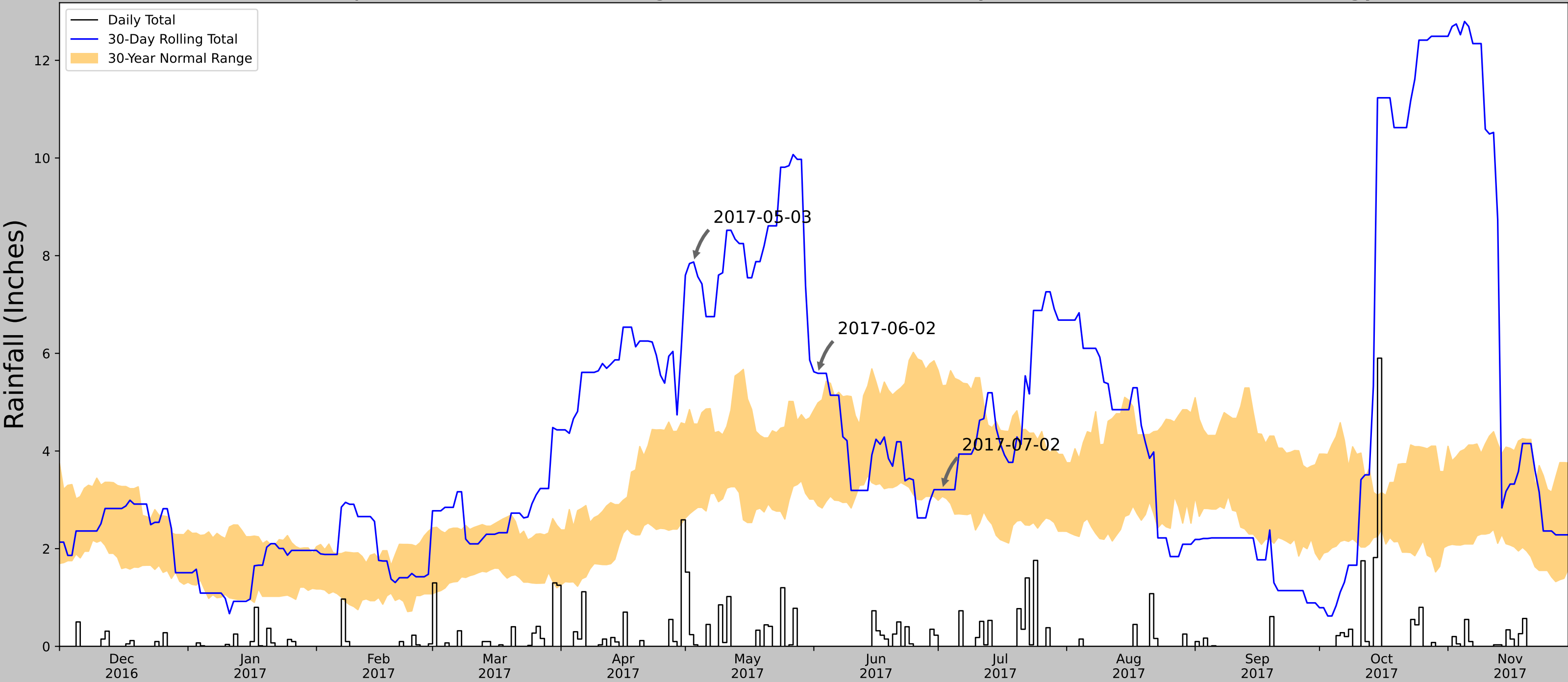


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Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	41.818922, -88.375771
Observation Date	2017-07-02
Elevation (ft)	701.439
Drought Index (PDSI)	Extreme wetness
WebWIMP H ₂ O Balance	Dry Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2017-07-02	3.070866	5.338583	3.208662	Normal	2	3	6
2017-06-02	2.882284	4.986221	5.590551	Wet	3	2	6
2017-05-03	2.782677	4.553937	7.870079	Wet	3	1	3
Result							Wetter than Normal - 15



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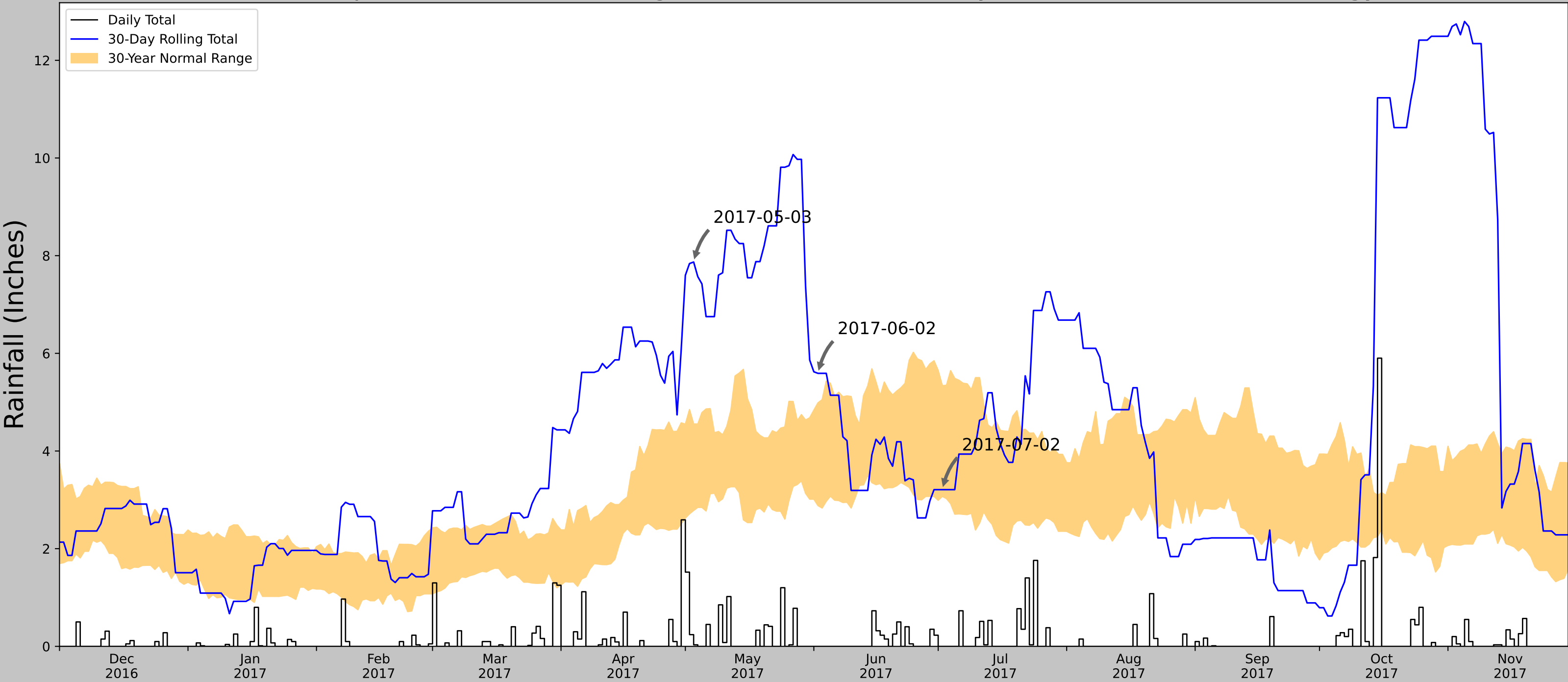
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Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
AURORA WATER	41.7803, -88.3092	674.869	4.345	26.57	2.071	11079	90
AURORA 3.4 W	41.7723, -88.3577	689.961	2.559	15.092	1.19	6	0
NORTH AURORA 1.5 NE	41.8163, -88.3068	719.16	2.49	44.291	1.231	2	0
CHICAGO AURORA MUNI AP	41.7714, -88.4814	701.116	8.894	26.247	4.236	5	0
WHEATON 3 SE	41.8128, -88.0728	680.118	12.382	5.249	5.637	230	0
ELGIN WATER	42.0628, -88.2861	745.079	19.555	70.21	10.173	31	0

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	41.767807, -88.444827
Observation Date	2017-07-02
Elevation (ft)	713.946
Drought Index (PDSI)	Extreme wetness
WebWIMP H ₂ O Balance	Dry Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2017-07-02	3.070866	5.338583	3.208662	Normal	2	3	6
2017-06-02	2.882284	4.986221	5.590551	Wet	3	2	6
2017-05-03	2.782677	4.553937	7.870079	Wet	3	1	3
Result							Wetter than Normal - 15



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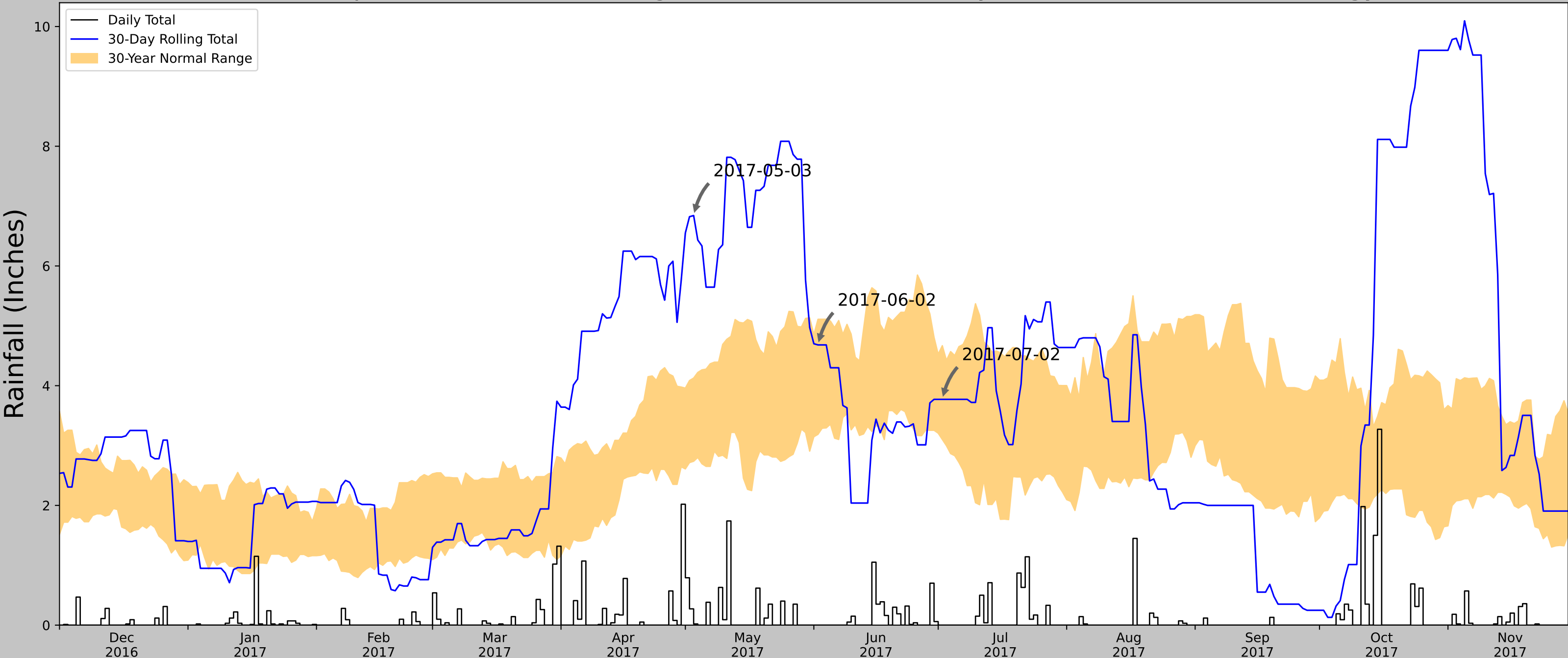
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Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
AURORA WATER	41.7803, -88.3092	674.869	7.042	39.077	3.444	11079	90
AURORA 3.4 W	41.7723, -88.3577	689.961	2.559	15.092	1.19	6	0
NORTH AURORA 1.5 NE	41.8163, -88.3068	719.16	2.49	44.291	1.231	2	0
CHICAGO AURORA MUNI AP	41.7714, -88.4814	701.116	8.894	26.247	4.236	5	0
WHEATON 3 SE	41.8128, -88.0728	680.118	12.382	5.249	5.637	230	0
ELGIN WATER	42.0628, -88.2861	745.079	19.555	70.21	10.173	31	0

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	41.915788, -88.451336
Observation Date	2017-07-02
Elevation (ft)	917.248
Drought Index (PDSI)	Extreme wetness
WebWIMP H ₂ O Balance	Dry Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2017-07-02	3.100788	4.669291	3.771654	Normal	2	3	6
2017-06-02	3.186614	5.110236	4.681103	Normal	2	2	4
2017-05-03	2.737008	4.127953	6.84252	Wet	3	1	3
Result							Normal Conditions - 13

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
ELBURN	41.8742, -88.4728	870.079	3.078	47.169	1.53	6039	90
ELBURN 0.3 NW	41.8939, -88.4761	854.987	1.372	15.092	0.638	45	0
ELBURN 2.7 NNE	41.9279, -88.4562	937.992	3.807	67.913	1.972	2	0
LILY LAKE 2.1 E	41.945, -88.4382	862.861	5.205	7.218	2.38	2	0
ST CHARLES 7 NW	41.9603, -88.4228	870.079	6.481	0.0	2.916	120	0
CHICAGO AURORA MUNI AP	41.7714, -88.4814	701.116	7.117	168.963	4.405	349	0
HAMPSHIRE 8 SE	42.0581, -88.4586	939.961	12.727	69.882	6.617	852	0
AURORA WATER	41.7803, -88.3092	674.869	10.632	195.21	6.86	3683	0
DE KALB	41.9342, -88.7756	877.953	16.113	7.874	7.378	230	0
ELGIN WATER	42.0628, -88.2861	745.079	16.18	125.0	9.303	31	0



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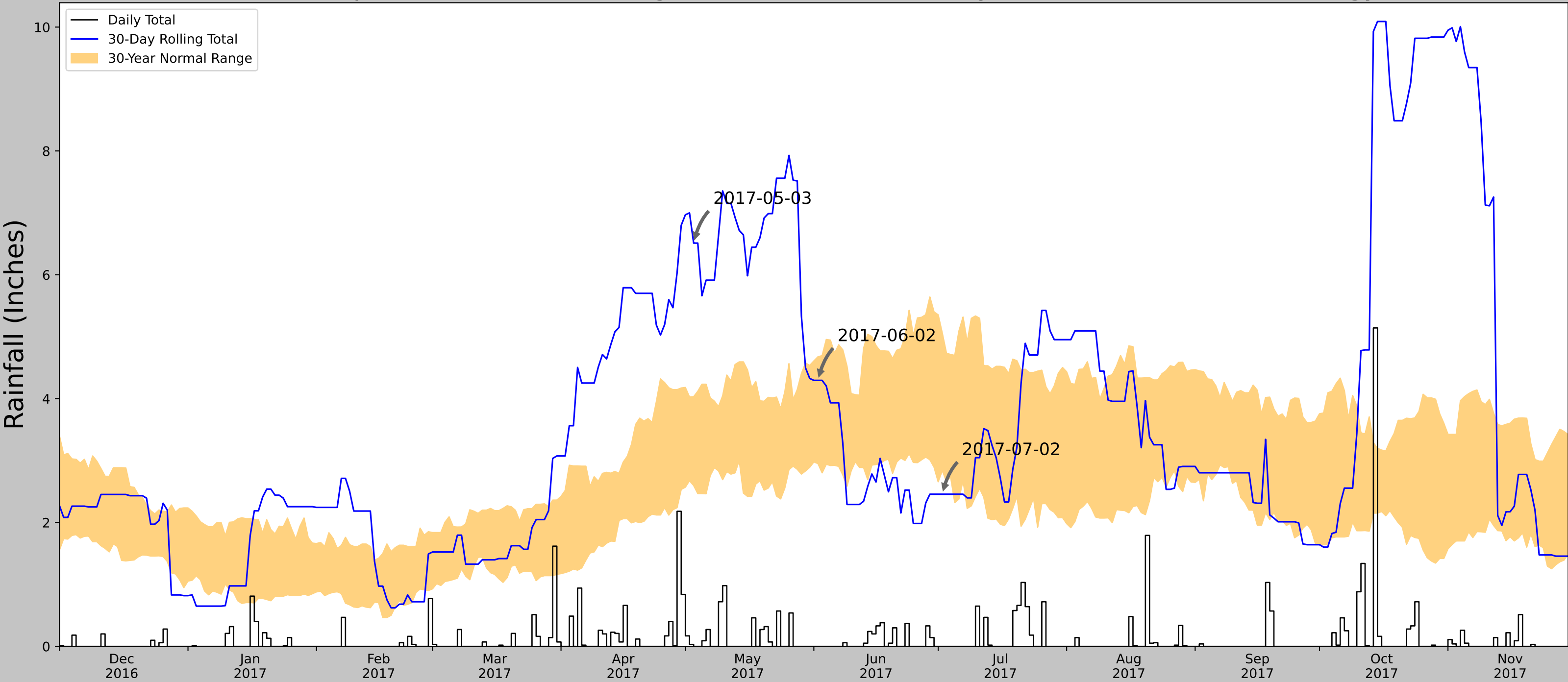


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Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	41.814356, -88.480361
Observation Date	2017-07-02
Elevation (ft)	752.923
Drought Index (PDSI)	Extreme wetness
WebWIMP H ₂ O Balance	Dry Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2017-07-02	2.841339	5.056693	2.456693	Dry	1	3	3
2017-06-02	2.951575	4.676378	4.295276	Normal	2	2	4
2017-05-03	2.598032	4.031496	6.511811	Wet	3	1	3
Result							Normal Conditions - 10



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Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
CHICAGO AURORA MUNI AP	41.7714, -88.4814	701.116	2.968	51.807	1.49	6530	88
SUGAR GROVE 0.7 NE	41.7762, -88.4478	714.895	1.763	13.779	0.818	11	2
SUGAR GROVE 1.4 ENE	41.7787, -88.4343	688.976	2.479	12.14	1.146	1	0
AURORA WATER	41.7803, -88.3092	674.869	8.894	26.247	4.236	4550	0
WHEATON 3 SE	41.8128, -88.0728	680.118	21.242	20.998	10.005	230	0
ELGIN WATER	42.0628, -88.2861	745.079	22.499	43.963	11.114	31	0

Antecedent Precipitation Tool v3.0 - Watershed Sampling Summary

Generated on 2026-06-18

User Inputs

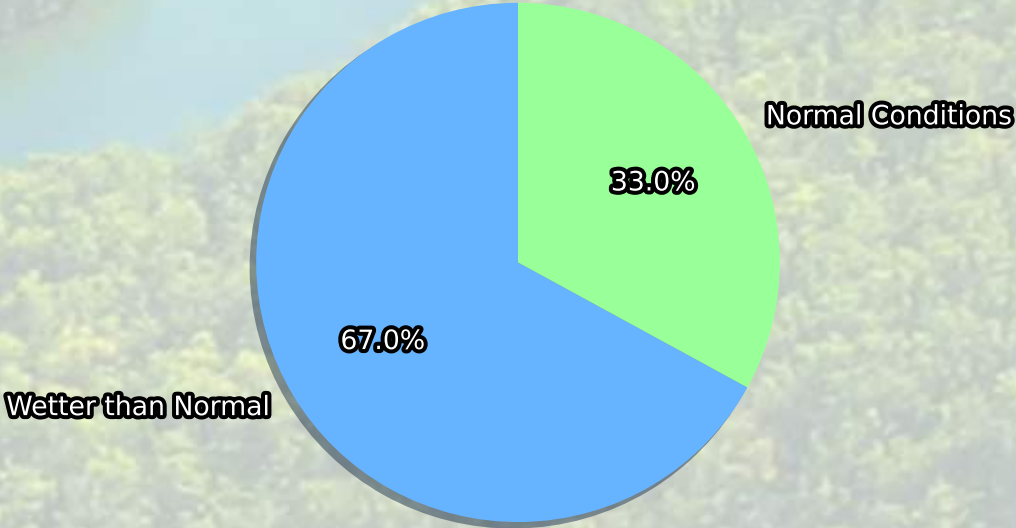
Coordinates	41.80789, -88.38851
Date	2019-08-09
Geographic Scope	HUC12
Used Gridded Precipitaton	False

Intermediate Data

Hydrologic Unit Code	071200070201
Watershed Size	44.27 mi ²
# Random Sampling Points	6

Preliminary Result

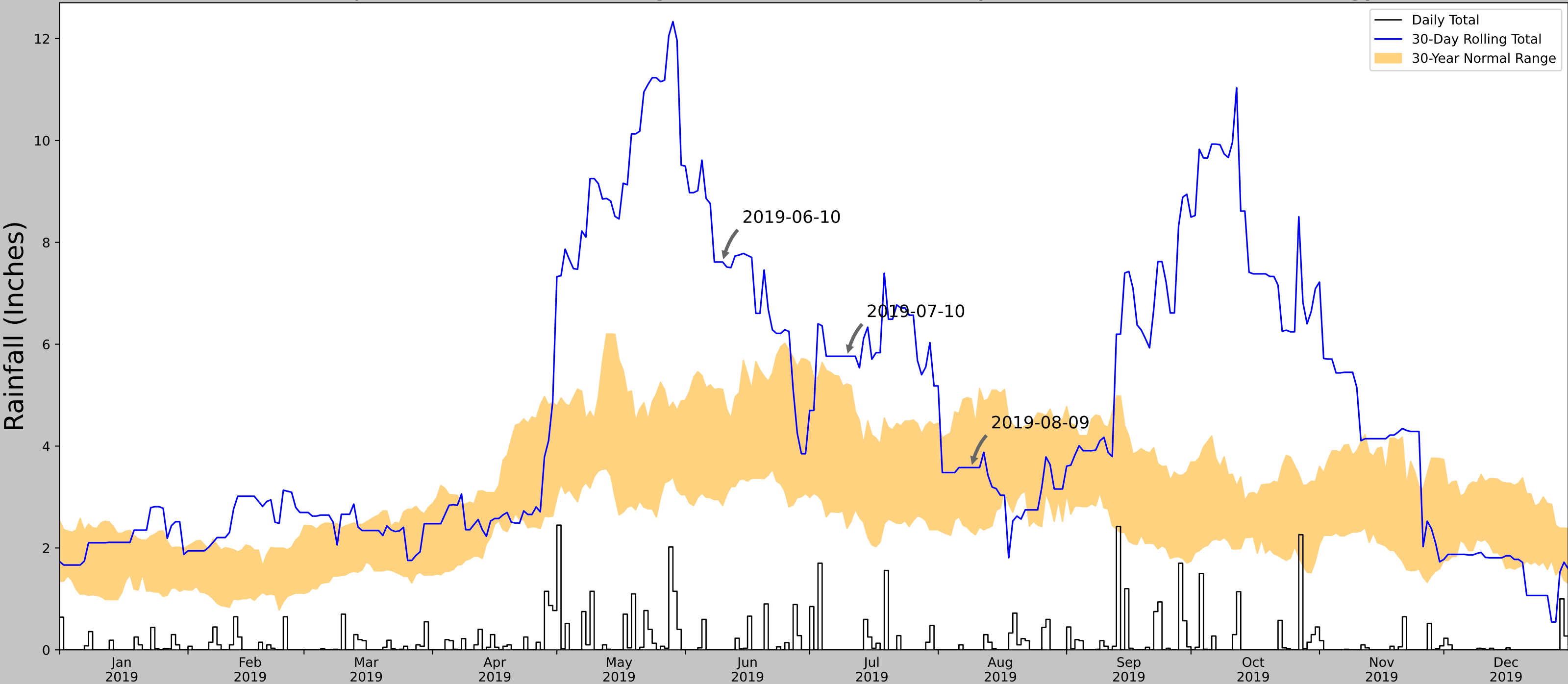
Average Antecedent Precipitation Score	13.33
Preliminary Determination	Normal Conditions



Sampling Point Breakdown

Antecedent Precipitation Score	Antecedent Precipitation Condition	WebWIMP H ₂ O Balance	Drought Index (PDSI)	# of Points
15	Wetter than Normal	Dry Season	Severe wetness	4
10	Normal Conditions	Dry Season	Severe wetness	2

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	41.80789, -88.38851
Observation Date	2019-08-09
Elevation (ft)	757.363
Drought Index (PDSI)	Severe wetness
WebWIMP H ₂ O Balance	Dry Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2019-08-09	2.314567	4.929528	3.57874	Normal	2	3	6
2019-07-10	2.383071	5.220473	5.76378	Wet	3	2	6
2019-06-10	2.833071	5.115354	7.614173	Wet	3	1	3
Result							Wetter than Normal - 15



**US Army Corps
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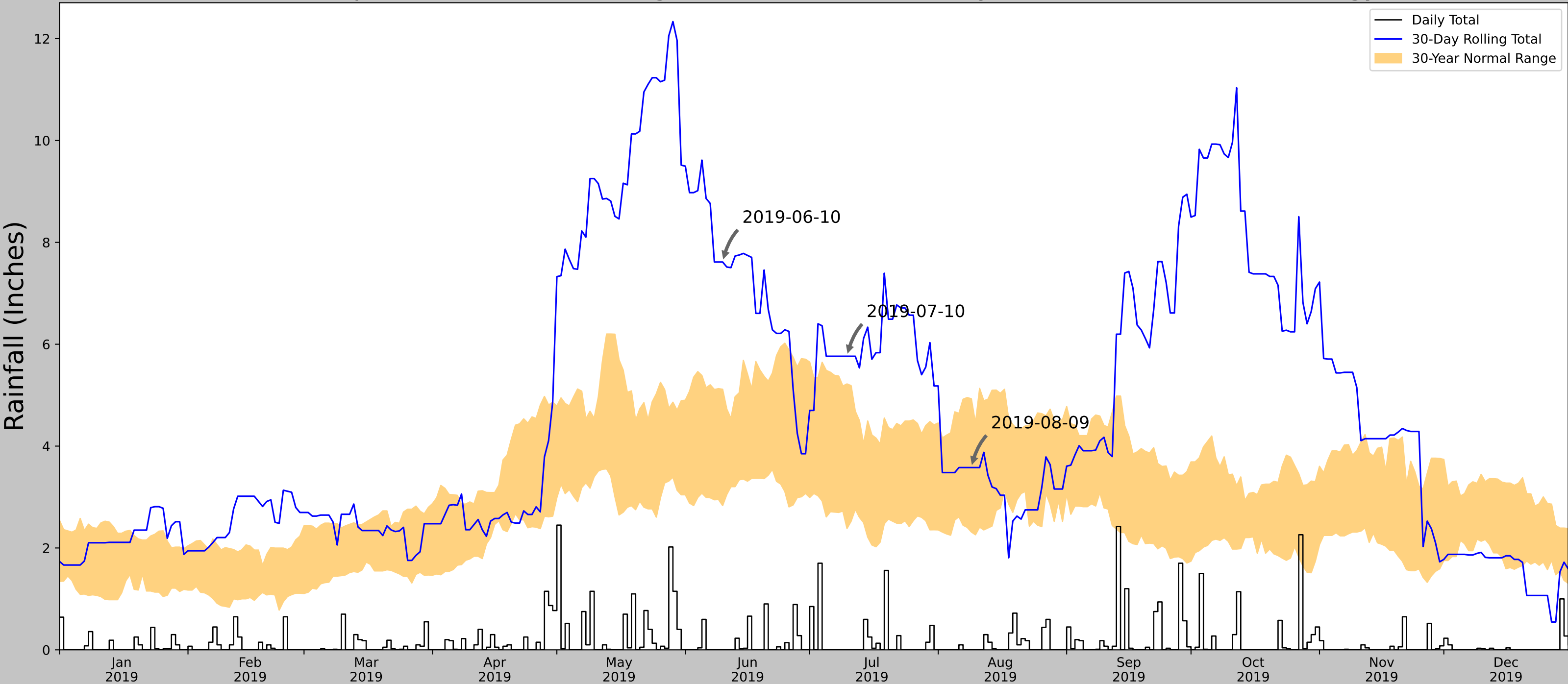
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Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
AURORA WATER	41.7803, -88.3092	674.869	4.508	82.494	2.401	11263	90
AURORA 3.4 W	41.7723, -88.3577	689.961	2.559	15.092	1.19	6	0
NORTH AURORA 1.5 NE	41.8163, -88.3068	719.16	2.49	44.291	1.231	2	0
CHICAGO AURORA MUNI AP	41.7714, -88.4814	701.116	8.894	26.247	4.236	5	0
WHEATON 3 SE	41.8128, -88.0728	680.118	12.382	5.249	5.637	77	0

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	41.775719, -88.405529
Observation Date	2019-08-09
Elevation (ft)	672.117
Drought Index (PDSI)	Severe wetness
WebWIMP H ₂ O Balance	Dry Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2019-08-09	2.314567	4.929528	3.57874	Normal	2	3	6
2019-07-10	2.383071	5.220473	5.76378	Wet	3	2	6
2019-06-10	2.833071	5.115354	7.614173	Wet	3	1	3
Result							Wetter than Normal - 15



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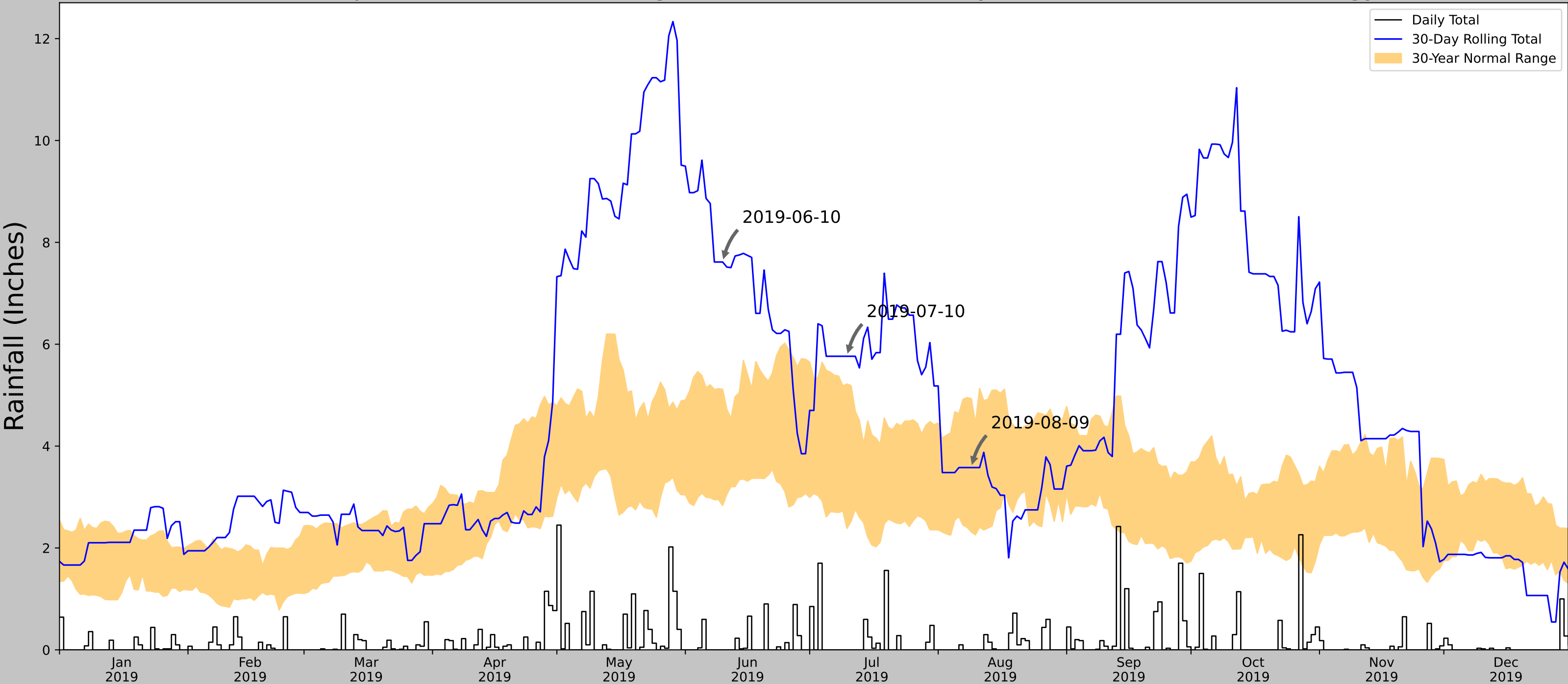
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Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
AURORA WATER	41.7803, -88.3092	674.869	4.973	2.752	2.252	11263	90
AURORA 3.4 W	41.7723, -88.3577	689.961	2.559	15.092	1.19	6	0
NORTH AURORA 1.5 NE	41.8163, -88.3068	719.16	2.49	44.291	1.231	2	0
CHICAGO AURORA MUNI AP	41.7714, -88.4814	701.116	8.894	26.247	4.236	5	0
WHEATON 3 SE	41.8128, -88.0728	680.118	12.382	5.249	5.637	77	0

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	41.815347, -88.477197
Observation Date	2019-08-09
Elevation (ft)	713.179
Drought Index (PDSI)	Severe wetness
WebWIMP H ₂ O Balance	Dry Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2019-08-09	2.314567	4.929528	3.57874	Normal	2	3	6
2019-07-10	2.383071	5.220473	5.76378	Wet	3	2	6
2019-06-10	2.833071	5.115354	7.614173	Wet	3	1	3
Result							Wetter than Normal - 15



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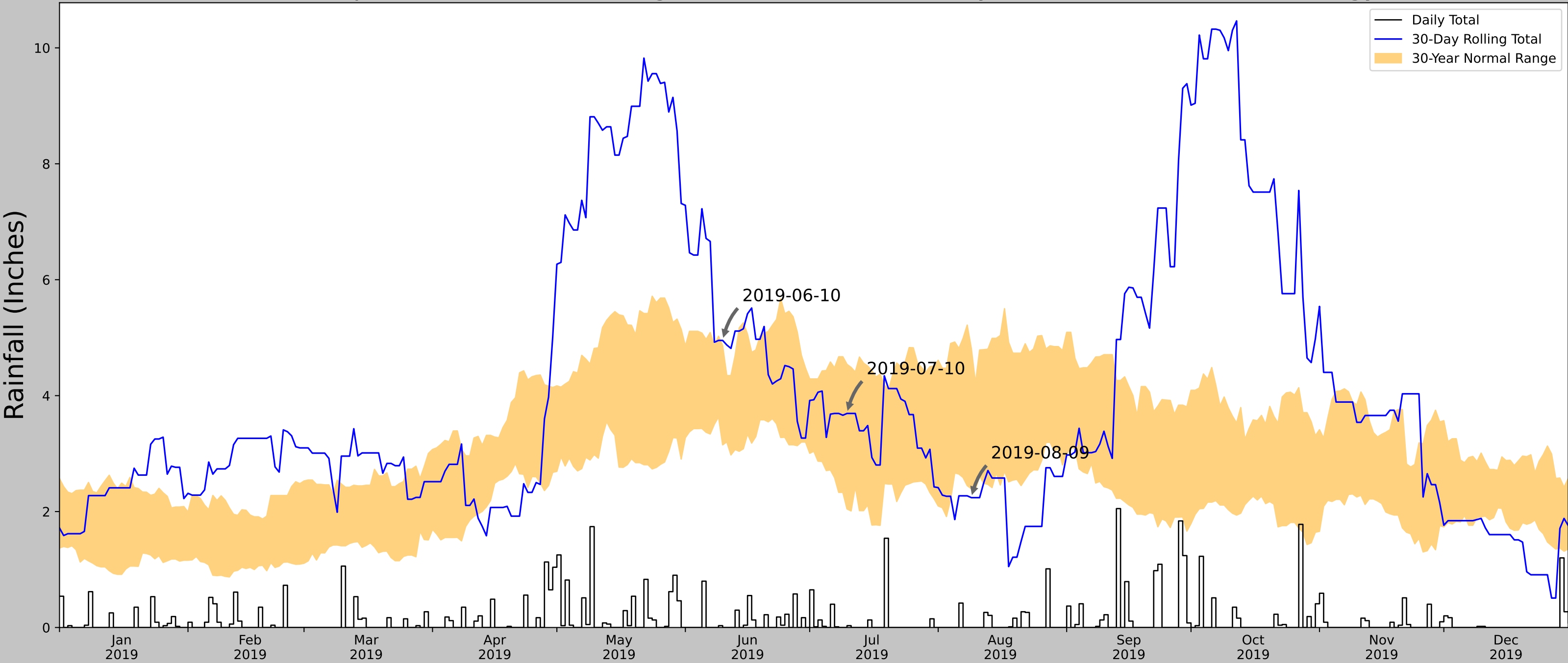
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Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
AURORA WATER	41.7803, -88.3092	674.869	8.986	38.31	4.388	11263	90
AURORA 3.4 W	41.7723, -88.3577	689.961	2.559	15.092	1.19	6	0
NORTH AURORA 1.5 NE	41.8163, -88.3068	719.16	2.49	44.291	1.231	2	0
CHICAGO AURORA MUNI AP	41.7714, -88.4814	701.116	8.894	26.247	4.236	5	0
WHEATON 3 SE	41.8128, -88.0728	680.118	12.382	5.249	5.637	77	0

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	41.913614, -88.438833
Observation Date	2019-08-09
Elevation (ft)	927.313
Drought Index (PDSI)	Severe wetness
WebWIMP H ₂ O Balance	Dry Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2019-08-09	2.394488	4.814961	2.240158	Dry	1	3	3
2019-07-10	2.044882	4.539764	3.692914	Normal	2	2	4
2019-06-10	3.150788	4.861811	4.952756	Wet	3	1	3
Result							Normal Conditions - 10



US Army Corps of Engineers



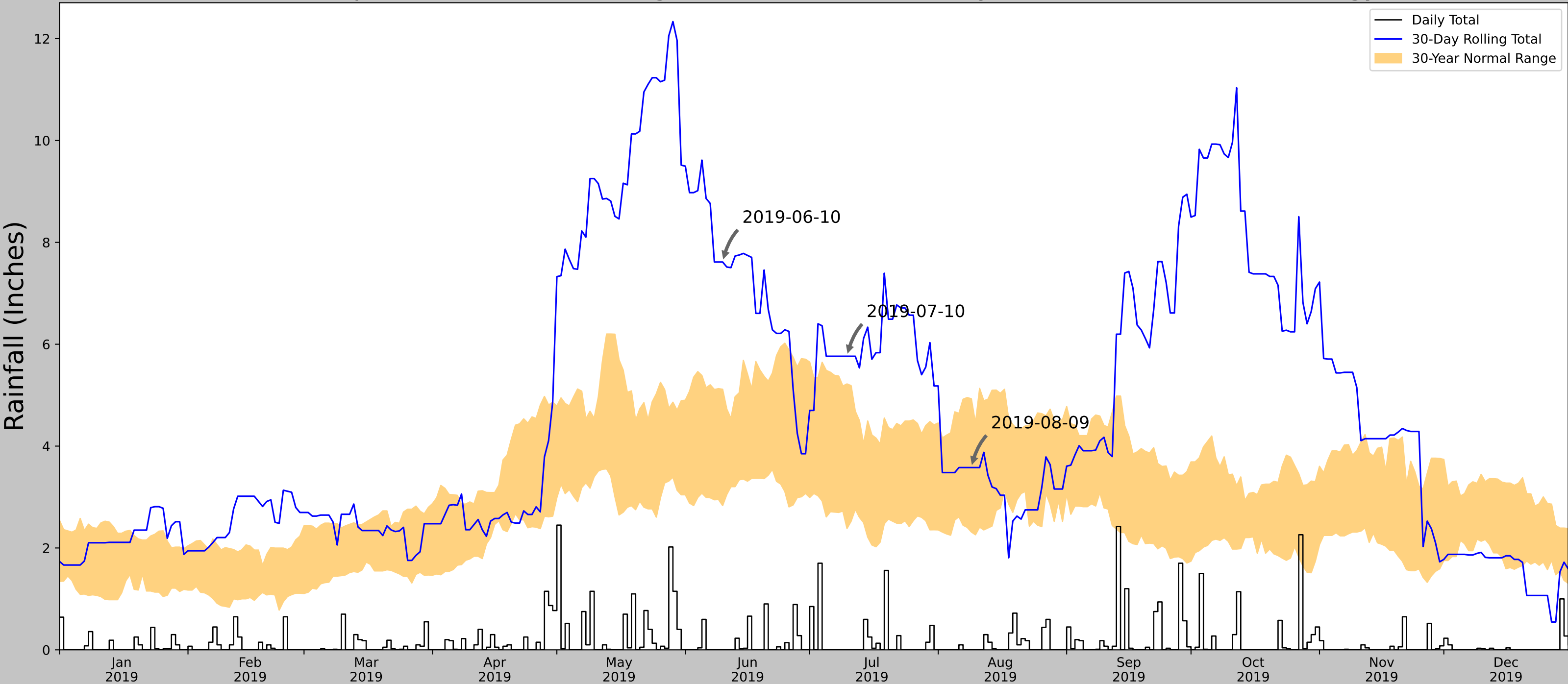
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Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
ELBURN	41.8742, -88.4728	870.079	3.235	57.234	1.641	6762	90
ELBURN 0.3 NW	41.8939, -88.4761	854.987	1.372	15.092	0.638	50	0
ELBURN 2.7 NNE	41.9279, -88.4562	937.992	3.807	67.913	1.972	2	0
LILY LAKE 2.1 E	41.945, -88.4382	862.861	5.205	7.218	2.38	4	0
ST CHARLES 7 NW	41.9603, -88.4228	870.079	6.481	0.0	2.916	120	0
CHICAGO AURORA MUNI AP	41.7714, -88.4814	701.116	7.117	168.963	4.405	349	0
HAMPSHIRE 8 SE	42.0581, -88.4586	939.961	12.727	69.882	6.617	852	0
AURORA WATER	41.7803, -88.3092	674.869	10.632	195.21	6.86	3137	0
DE KALB	41.9342, -88.7756	877.953	16.113	7.874	7.378	77	0

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	41.839834, -88.361293
Observation Date	2019-08-09
Elevation (ft)	734.82
Drought Index (PDSI)	Severe wetness
WebWIMP H ₂ O Balance	Dry Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2019-08-09	2.314567	4.929528	3.57874	Normal	2	3	6
2019-07-10	2.383071	5.220473	5.76378	Wet	3	2	6
2019-06-10	2.833071	5.115354	7.614173	Wet	3	1	3
Result							Wetter than Normal - 15



**US Army Corps
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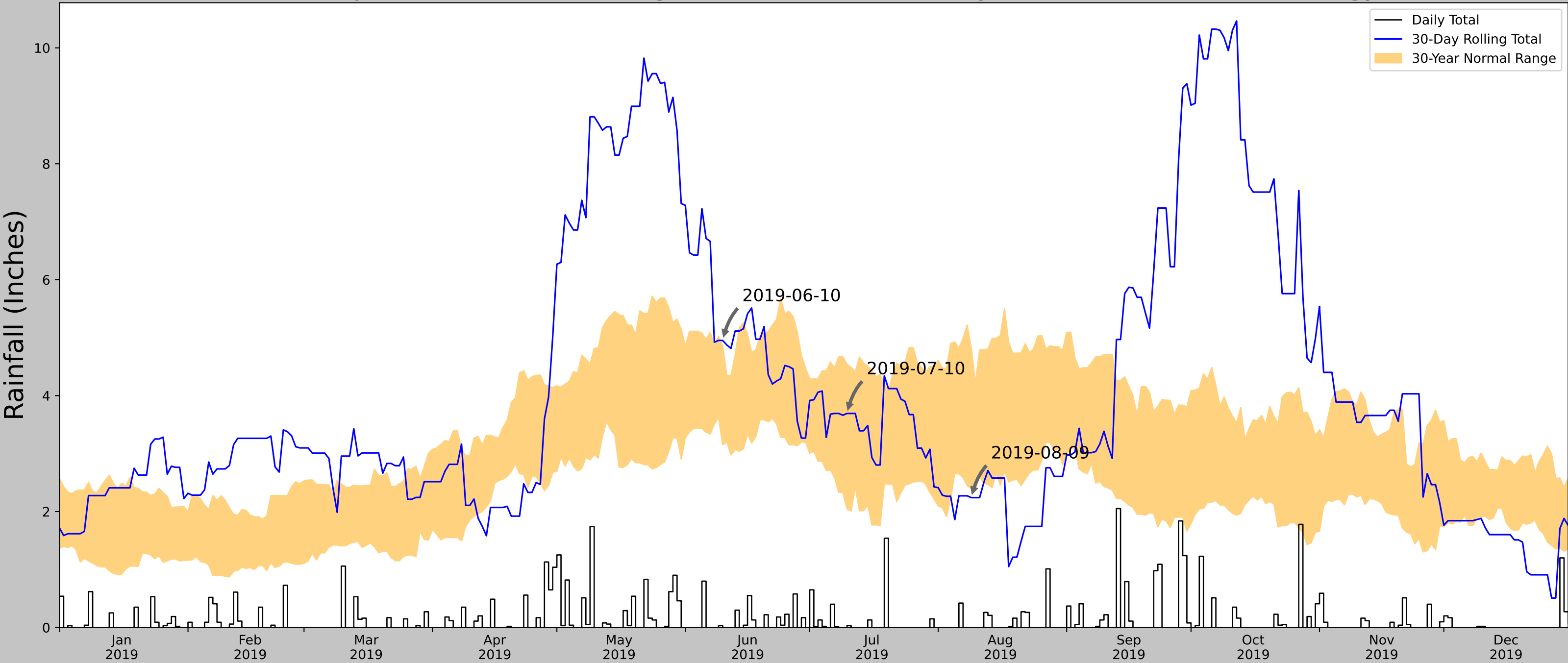
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Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
AURORA WATER	41.7803, -88.3092	674.869	4.911	59.951	2.504	11263	90
AURORA 3.4 W	41.7723, -88.3577	689.961	2.559	15.092	1.19	6	0
NORTH AURORA 1.5 NE	41.8163, -88.3068	719.16	2.49	44.291	1.231	2	0
CHICAGO AURORA MUNI AP	41.7714, -88.4814	701.116	8.894	26.247	4.236	5	0
WHEATON 3 SE	41.8128, -88.0728	680.118	12.382	5.249	5.637	77	0

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	41.859722, -88.435971
Observation Date	2019-08-09
Elevation (ft)	778.109
Drought Index (PDSI)	Severe wetness
WebWIMP H ₂ O Balance	Dry Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2019-08-09	2.394488	4.814961	2.240158	Dry	1	3	3
2019-07-10	2.044882	4.539764	3.692914	Normal	2	2	4
2019-06-10	3.150788	4.861811	4.952756	Wet	3	1	3
Result							Normal Conditions - 10



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Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
ELBURN	41.8742, -88.4728	870.079	2.143	91.97	1.161	6762	90
ELBURN 0.3 NW	41.8939, -88.4761	854.987	1.372	15.092	0.638	50	0
ELBURN 2.7 NNE	41.9279, -88.4562	937.992	3.807	67.913	1.972	2	0
LILY LAKE 2.1 E	41.945, -88.4382	862.861	5.205	7.218	2.38	4	0
ST CHARLES 7 NW	41.9603, -88.4228	870.079	6.481	0.0	2.916	120	0
CHICAGO AURORA MUNI AP	41.7714, -88.4814	701.116	7.117	168.963	4.405	349	0
HAMPSHIRE 8 SE	42.0581, -88.4586	939.961	12.727	69.882	6.617	852	0
AURORA WATER	41.7803, -88.3092	674.869	10.632	195.21	6.86	3137	0
DE KALB	41.9342, -88.7756	877.953	16.113	7.874	7.378	77	0

Antecedent Precipitation Tool v3.0 - Watershed Sampling Summary

Generated on 2026-06-18

User Inputs

Coordinates	41.80789, -88.38851
Date	2021-09-05
Geographic Scope	HUC12
Used Gridded Precipitaton	False

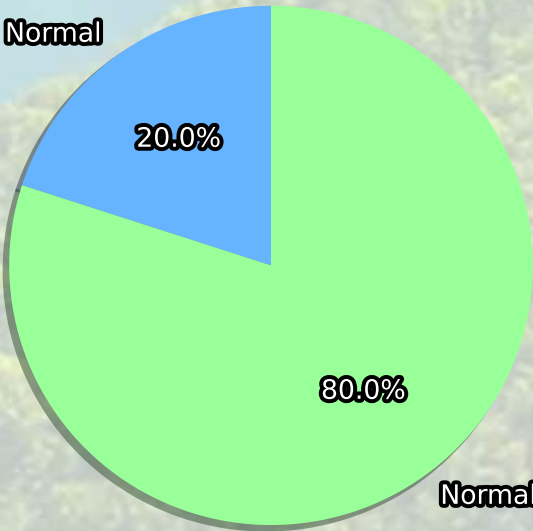
Intermediate Data

Hydrologic Unit Code	071200070201
Watershed Size	44.27 mi ²
# Random Sampling Points	5

Preliminary Result

Average Antecedent Precipitation Score	12.6
Preliminary Determination	Normal Conditions

Wetter than Normal

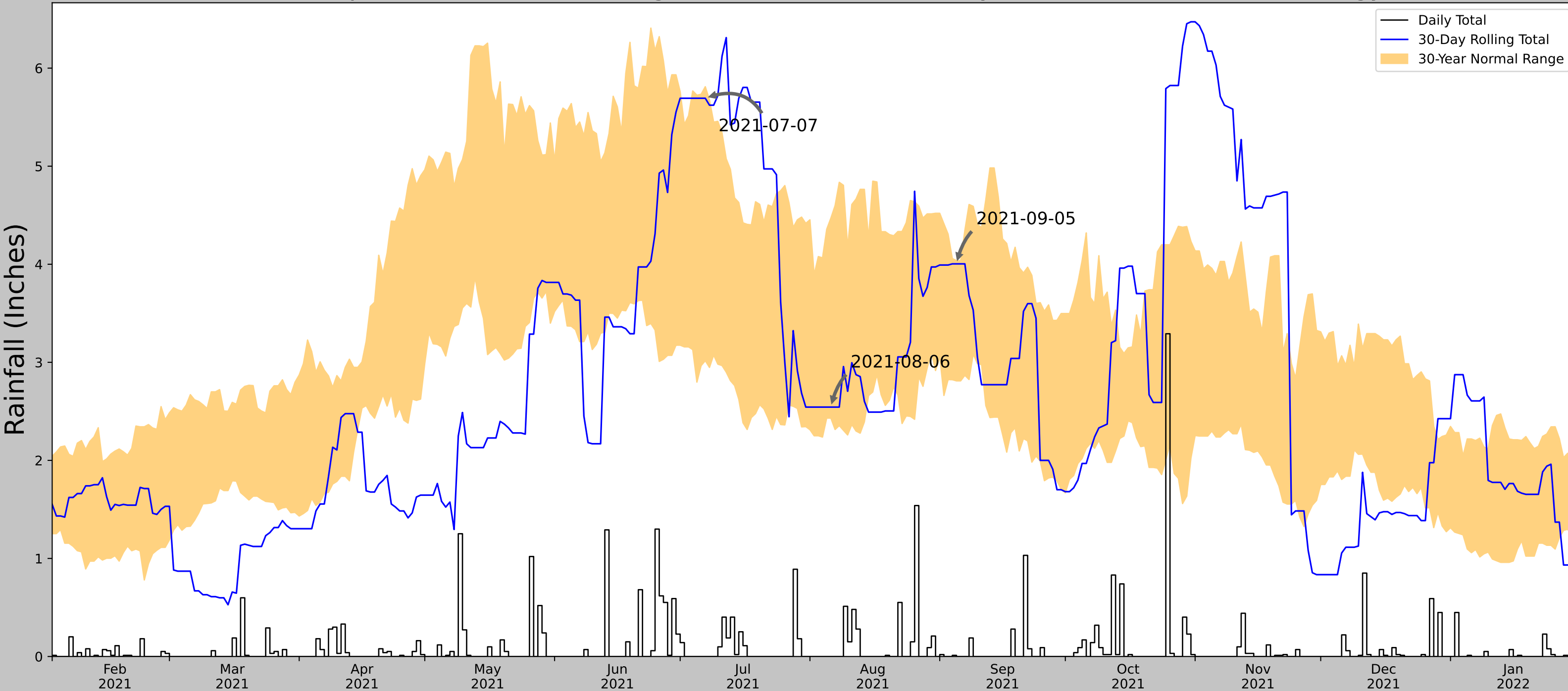


Normal Conditions

Sampling Point Breakdown

Antecedent Precipitation Score	Antecedent Precipitation Condition	WebWIMP H ₂ O Balance	Drought Index (PDSI)	# of Points
15	Wetter than Normal	Wet Season	Moderate drought	1
12	Normal Conditions	Wet Season	Moderate drought	4

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	41.80789, -88.38851
Observation Date	2021-09-05
Elevation (ft)	916.103
Drought Index (PDSI)	Moderate drought
WebWIMP H ₂ O Balance	Wet Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2021-09-05	2.81063	4.036614	4.003937	Normal	2	3	6
2021-08-06	2.431102	4.470866	2.543307	Normal	2	2	4
2021-07-07	3.016536	5.811024	5.692914	Normal	2	1	2
Result							Normal Conditions - 12



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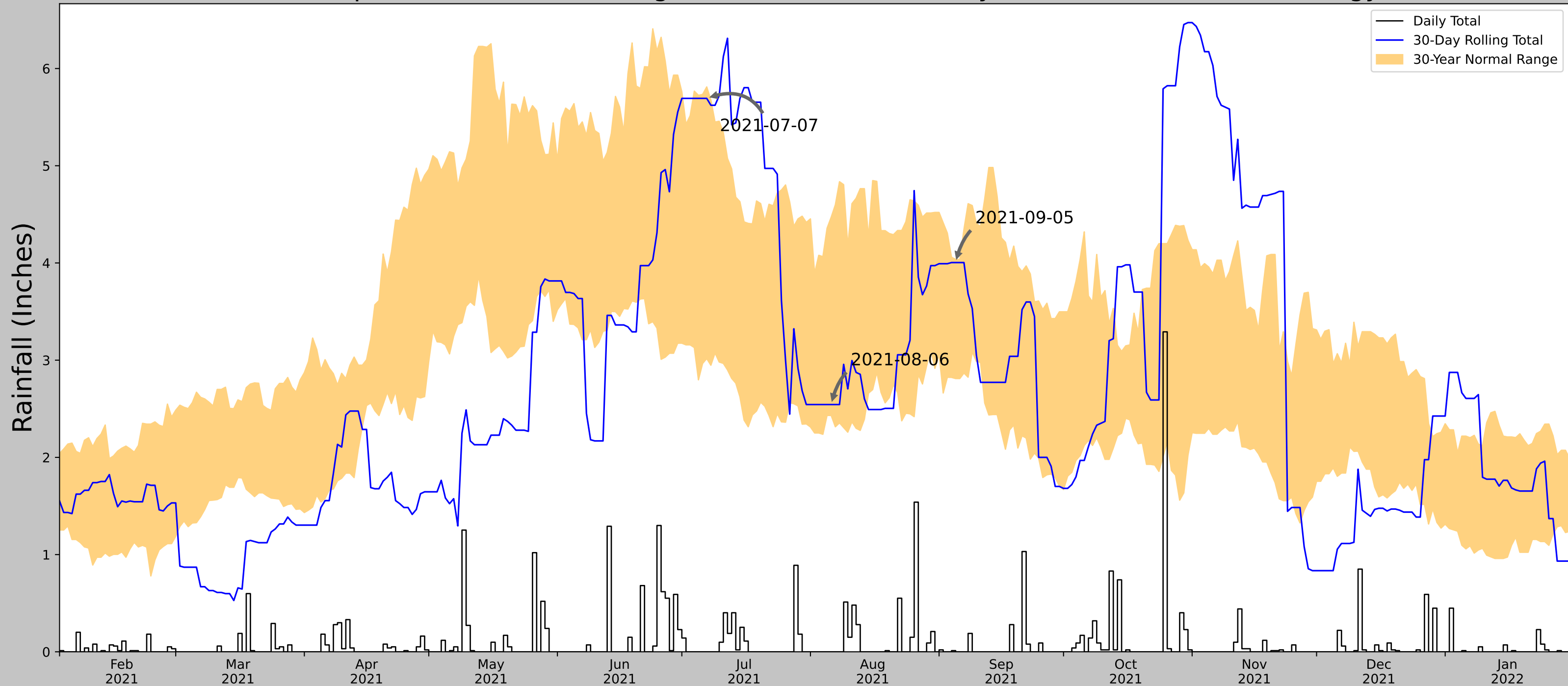


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Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
AURORA WATER	41.7803, -88.3092	674.869	4.508	241.234	3.116	11263	90
AURORA 3.4 W	41.7723, -88.3577	689.961	2.559	15.092	1.19	6	0
NORTH AURORA 1.5 NE	41.8163, -88.3068	719.16	2.49	44.291	1.231	2	0
CHICAGO AURORA MUNI AP	41.7714, -88.4814	701.116	8.894	26.247	4.236	5	0
WHEATON 3 SE	41.8128, -88.0728	680.118	12.382	5.249	5.637	77	0

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	41.798154, -88.391473
Observation Date	2021-09-05
Elevation (ft)	682.365
Drought Index (PDSI)	Moderate drought
WebWIMP H ₂ O Balance	Wet Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2021-09-05	2.81063	4.036614	4.003937	Normal	2	3	6
2021-08-06	2.431102	4.470866	2.543307	Normal	2	2	4
2021-07-07	3.016536	5.811024	5.692914	Normal	2	1	2
Result							Normal Conditions - 12

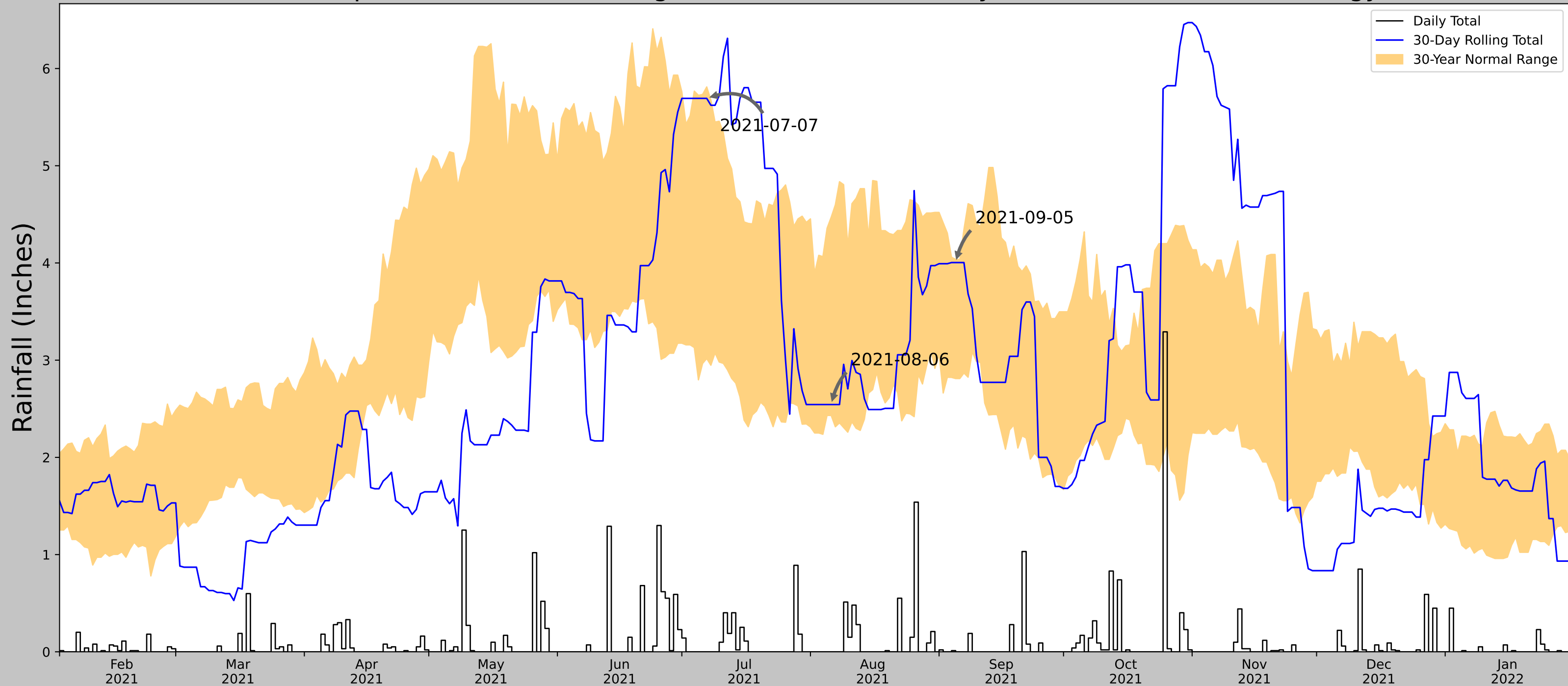
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Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
AURORA WATER	41.7803, -88.3092	674.869	4.414	7.496	2.02	11263	90
AURORA 3.4 W	41.7723, -88.3577	689.961	2.559	15.092	1.19	6	0
NORTH AURORA 1.5 NE	41.8163, -88.3068	719.16	2.49	44.291	1.231	2	0
CHICAGO AURORA MUNI AP	41.7714, -88.4814	701.116	8.894	26.247	4.236	5	0
WHEATON 3 SE	41.8128, -88.0728	680.118	12.382	5.249	5.637	77	0

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	41.843328, -88.433056
Observation Date	2021-09-05
Elevation (ft)	765.704
Drought Index (PDSI)	Moderate drought
WebWIMP H ₂ O Balance	Wet Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2021-09-05	2.81063	4.036614	4.003937	Normal	2	3	6
2021-08-06	2.431102	4.470866	2.543307	Normal	2	2	4
2021-07-07	3.016536	5.811024	5.692914	Normal	2	1	2
Result							Normal Conditions - 12

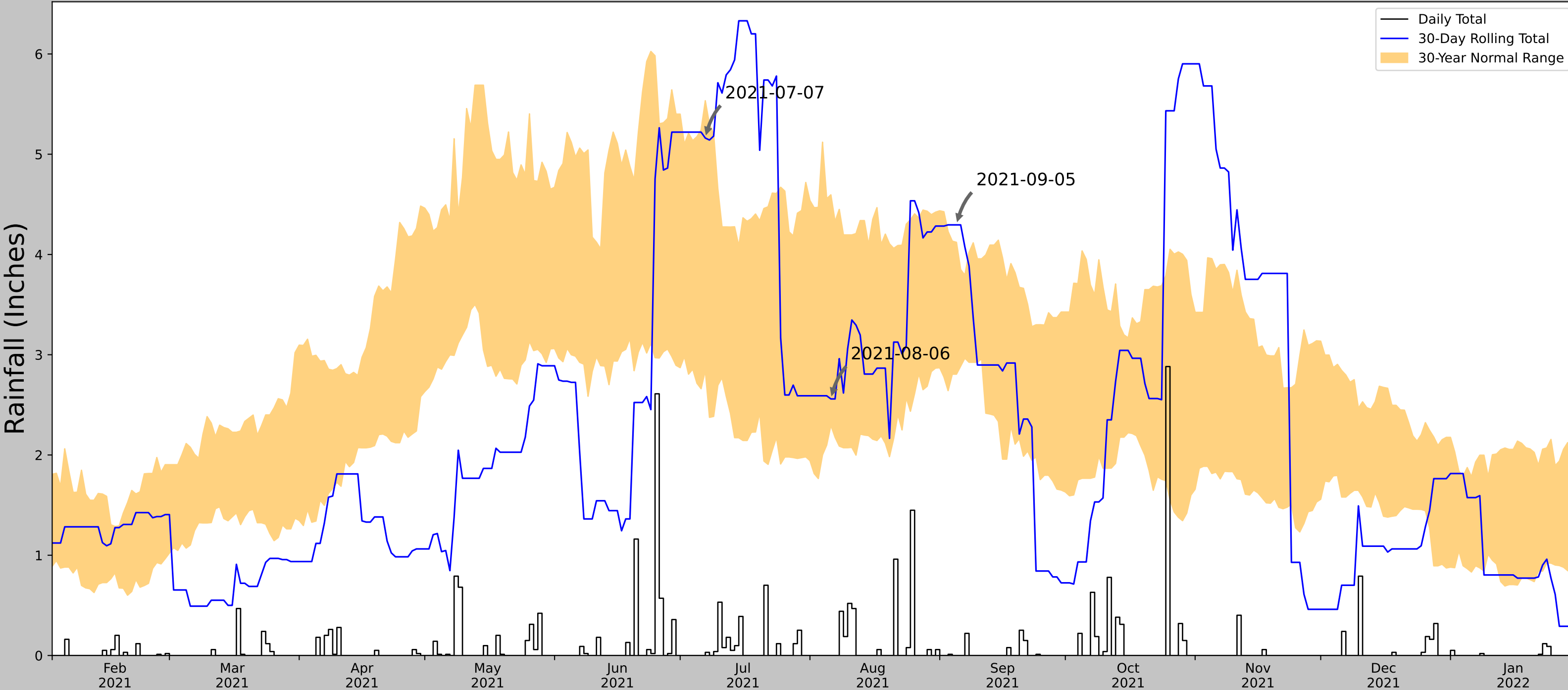
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Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
AURORA WATER	41.7803, -88.3092	674.869	7.723	90.835	4.177	11263	90
AURORA 3.4 W	41.7723, -88.3577	689.961	2.559	15.092	1.19	6	0
NORTH AURORA 1.5 NE	41.8163, -88.3068	719.16	2.49	44.291	1.231	2	0
CHICAGO AURORA MUNI AP	41.7714, -88.4814	701.116	8.894	26.247	4.236	5	0
WHEATON 3 SE	41.8128, -88.0728	680.118	12.382	5.249	5.637	77	0

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	41.788226, -88.469411
Observation Date	2021-09-05
Elevation (ft)	731.444
Drought Index (PDSI)	Moderate drought
WebWIMP H ₂ O Balance	Wet Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2021-09-05	2.805906	4.12126	4.295276	Wet	3	3	9
2021-08-06	2.295669	4.595276	2.559055	Normal	2	2	4
2021-07-07	2.842913	5.533858	5.161417	Normal	2	1	2
Result							Wetter than Normal - 15



**US Army Corps
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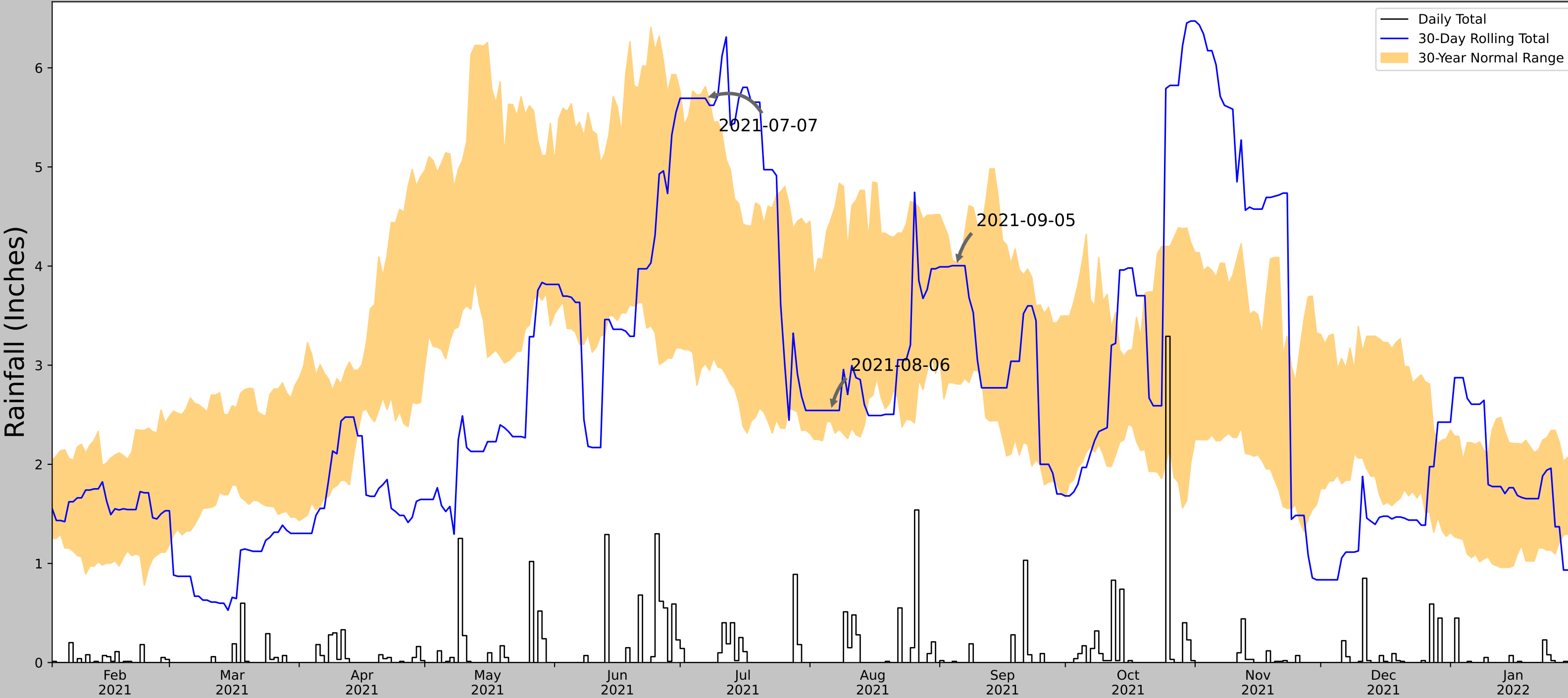
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Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
CHICAGO AURORA MUNI AP	41.7714, -88.4814	701.116	1.316	30.328	0.632	7980	90
SUGAR GROVE 0.7 NE	41.7762, -88.4478	714.895	1.763	13.779	0.818	21	0
SUGAR GROVE 1.4 ENE	41.7787, -88.4343	688.976	2.479	12.14	1.146	2	0
AURORA WATER	41.7803, -88.3092	674.869	8.894	26.247	4.236	3273	0
WHEATON 3 SE	41.8128, -88.0728	680.118	21.242	20.998	10.005	77	0

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	41.916664, -88.432827
Observation Date	2021-09-05
Elevation (ft)	959.981
Drought Index (PDSI)	Moderate drought
WebWIMP H ₂ O Balance	Wet Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2021-09-05	2.81063	4.036614	4.003937	Normal	2	3	6
2021-08-06	2.431102	4.470866	2.543307	Normal	2	2	4
2021-07-07	3.016536	5.811024	5.692914	Normal	2	1	2
Result							Normal Conditions - 12



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Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
AURORA WATER	41.7803, -88.3092	674.869	11.369	285.112	8.358	11263	90
AURORA 3.4 W	41.7723, -88.3577	689.961	2.559	15.092	1.19	6	0
NORTH AURORA 1.5 NE	41.8163, -88.3068	719.16	2.49	44.291	1.231	2	0
WHEATON 3 SE	41.8128, -88.0728	680.118	12.382	5.249	5.637	82	0

Antecedent Precipitation Tool v3.0 - Watershed Sampling Summary

Generated on 2026-06-18

User Inputs

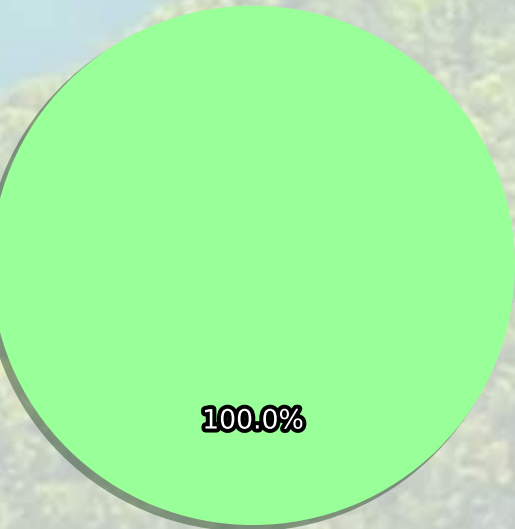
Coordinates	41.80789, -88.38851
Date	2023-08-16
Geographic Scope	HUC12
Used Gridded Precipitaton	False

Intermediate Data

Hydrologic Unit Code	071200070201
Watershed Size	44.27 mi ²
# Random Sampling Points	6

Preliminary Result

Average Antecedent Precipitation Score	13.0
Preliminary Determination	Normal Conditions

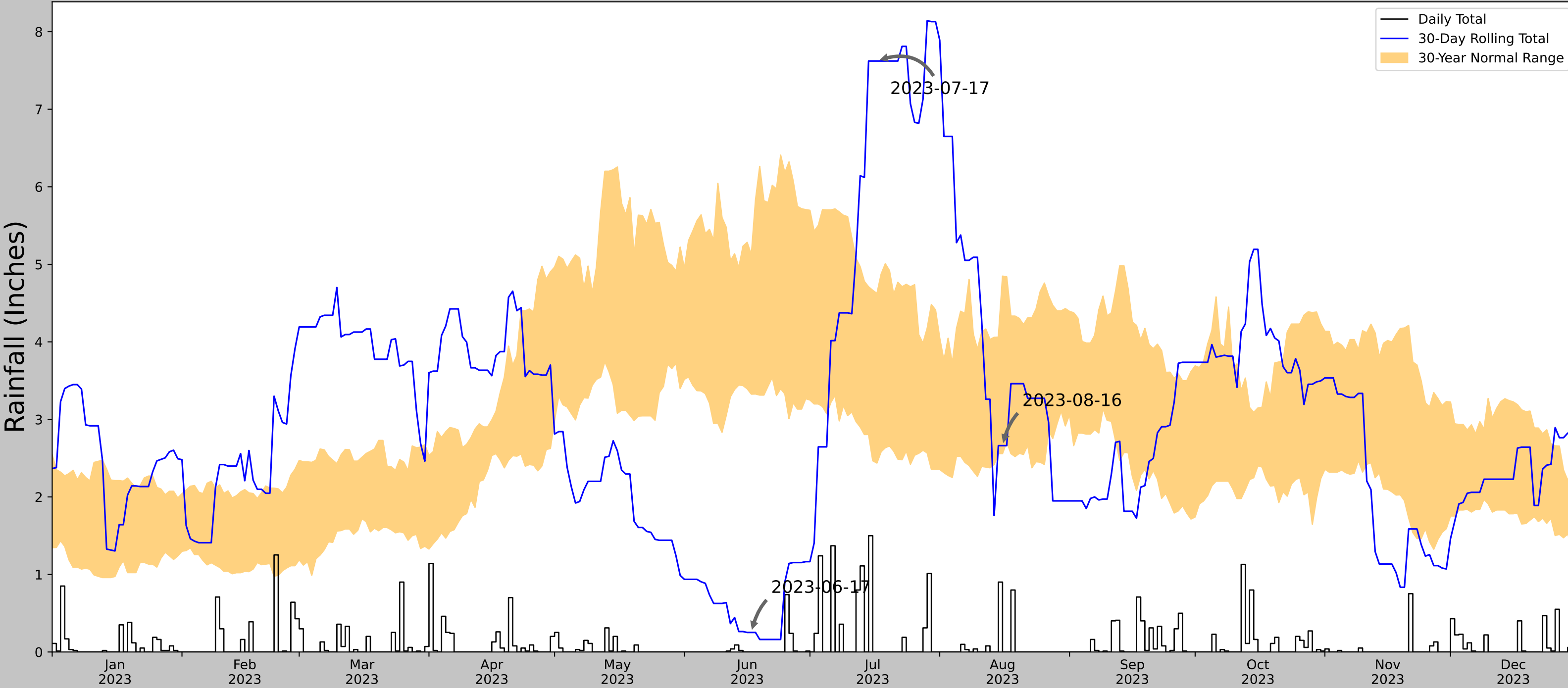


Normal Conditions

Sampling Point Breakdown

Antecedent Precipitation Score	Antecedent Precipitation Condition	WebWIMP H ₂ O Balance	Drought Index (PDSI)	# of Points
13	Normal Conditions	Dry Season	Incipient wetness	6

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	41.80789, -88.38851
Observation Date	2023-08-16
Elevation (ft)	696.534
Drought Index (PDSI)	Incipient wetness
WebWIMP H ₂ O Balance	Dry Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2023-08-16	2.558268	4.847638	2.661417	Normal	2	3	6
2023-07-17	2.436614	4.623228	7.622047	Wet	3	2	6
2023-06-17	3.325591	5.124016	0.251969	Dry	1	1	1
Result							Normal Conditions - 13



**US Army Corps
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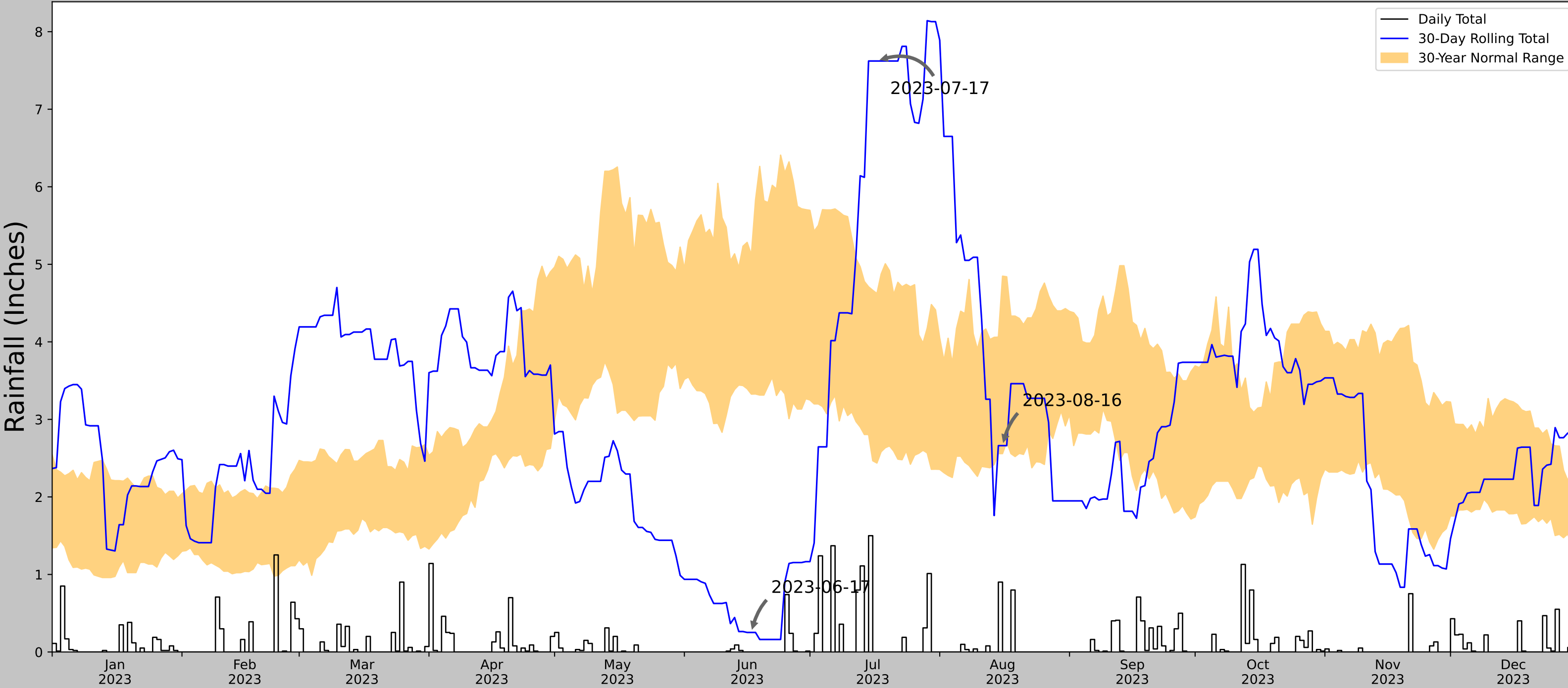
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Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
AURORA WATER	41.7803, -88.3092	674.869	4.508	21.665	2.126	11289	90
AURORA 2.8 WSW	41.7588, -88.3461	687.008	2.413	12.139	1.115	4	0
AURORA 3.4 W	41.7723, -88.3577	689.961	2.559	15.092	1.19	6	0
NORTH AURORA 1.5 NE	41.8163, -88.3068	719.16	2.49	44.291	1.231	2	0
CHICAGO AURORA MUNI AP	41.7714, -88.4814	701.116	8.894	26.247	4.236	5	0
WHEATON 3 SE	41.8128, -88.0728	680.118	12.382	5.249	5.637	47	0

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	41.787337, -88.389123
Observation Date	2023-08-16
Elevation (ft)	696.534
Drought Index (PDSI)	Incipient wetness
WebWIMP H ₂ O Balance	Dry Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2023-08-16	2.558268	4.847638	2.661417	Normal	2	3	6
2023-07-17	2.436614	4.623228	7.622047	Wet	3	2	6
2023-06-17	3.325591	5.124016	0.251969	Dry	1	1	1
Result							Normal Conditions - 13



**US Army Corps
of Engineers.**



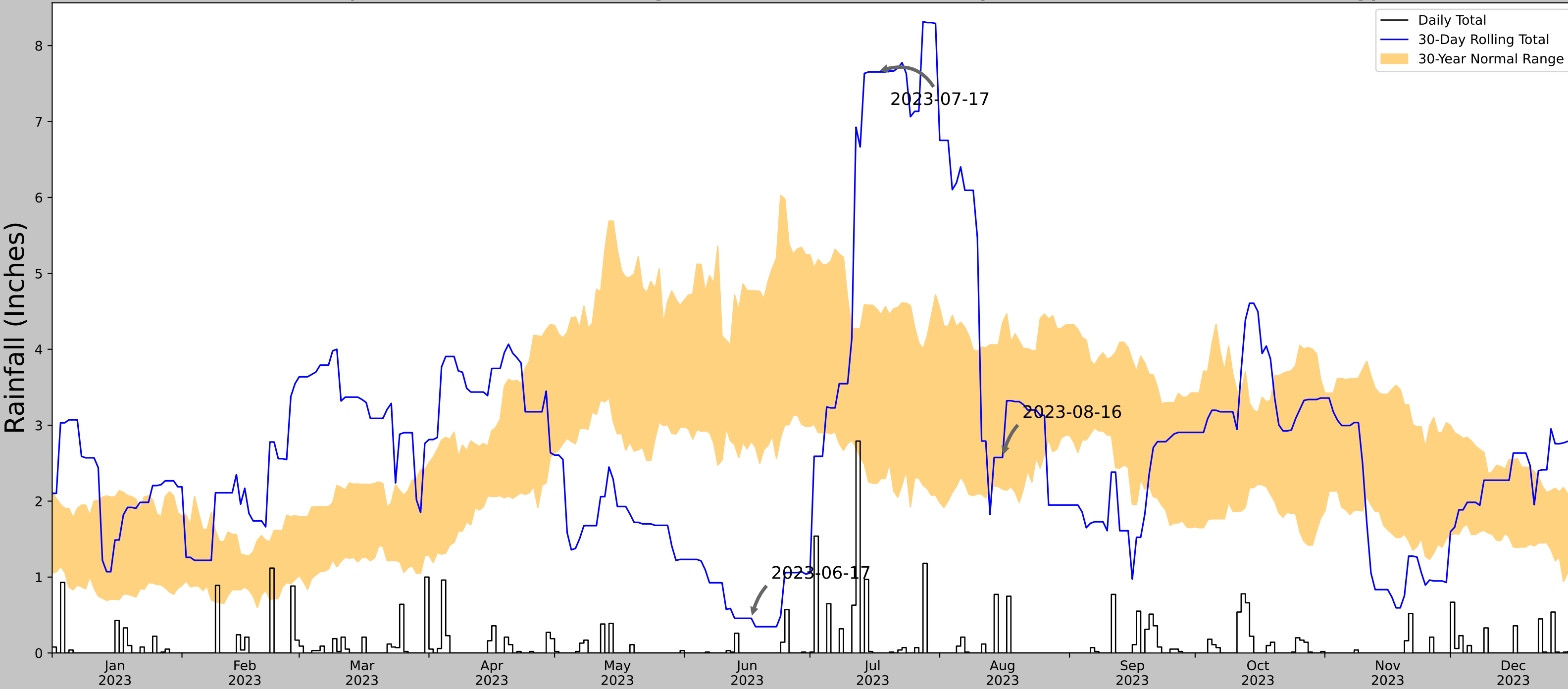
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Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
AURORA WATER	41.7803, -88.3092	674.869	4.146	21.665	1.956	11289	90
AURORA 2.8 WSW	41.7588, -88.3461	687.008	2.413	12.139	1.115	4	0
AURORA 3.4 W	41.7723, -88.3577	689.961	2.559	15.092	1.19	6	0
NORTH AURORA 1.5 NE	41.8163, -88.3068	719.16	2.49	44.291	1.231	2	0
CHICAGO AURORA MUNI AP	41.7714, -88.4814	701.116	8.894	26.247	4.236	5	0
WHEATON 3 SE	41.8128, -88.0728	680.118	12.382	5.249	5.637	47	0

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	41.867781, -88.477381
Observation Date	2023-08-16
Elevation (ft)	812.583
Drought Index (PDSI)	Incipient wetness
WebWIMP H ₂ O Balance	Dry Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2023-08-16	2.15748	4.351575	2.574803	Normal	2	3	6
2023-07-17	2.235039	4.527165	7.653544	Wet	3	2	6
2023-06-17	2.787795	4.770473	0.456693	Dry	1	1	1
Result							Normal Conditions - 13



**US Army Corps
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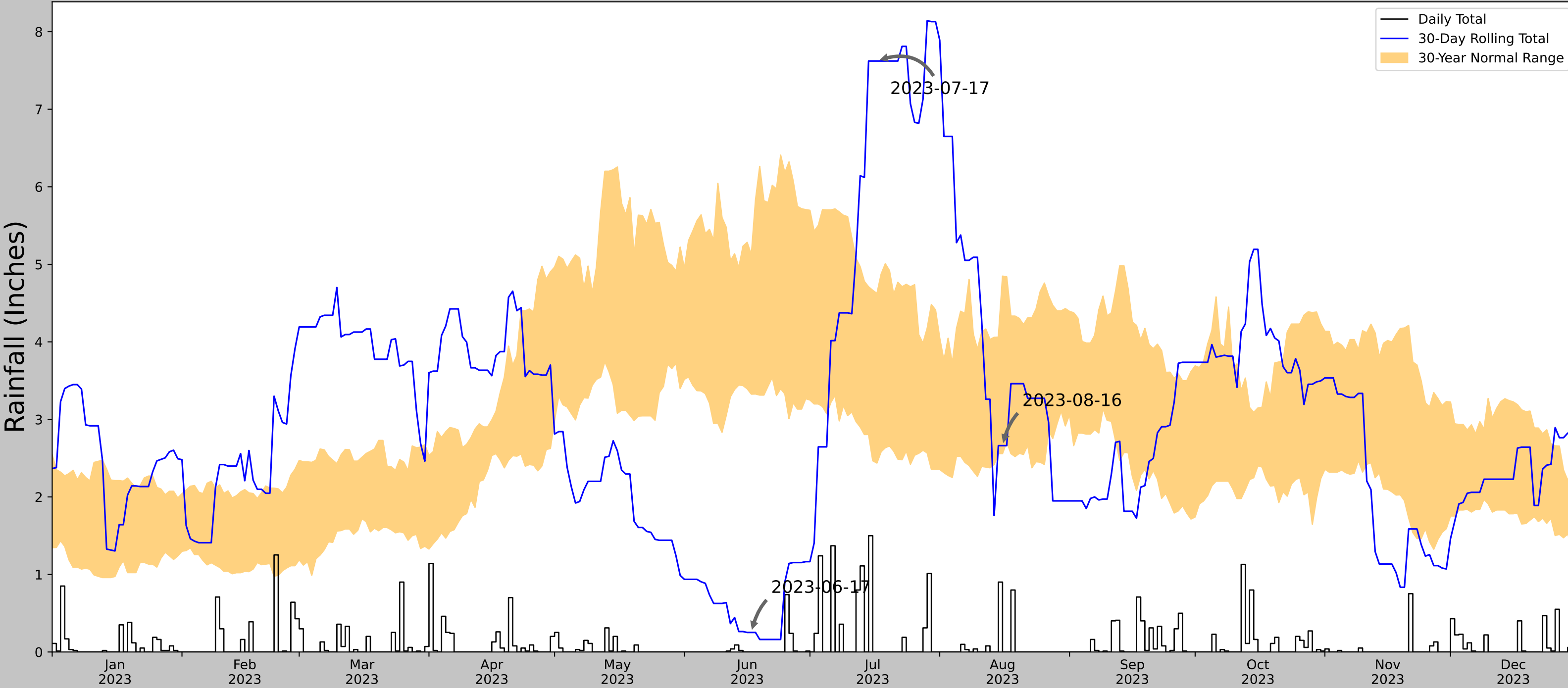
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Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
CHICAGO AURORA MUNI AP	41.7714, -88.4814	701.116	6.663	111.467	3.741	8701	90
SUGAR GROVE 0.7 NE	41.7762, -88.4478	714.895	1.763	13.779	0.818	29	0
SUGAR GROVE 1.4 ENE	41.7787, -88.4343	688.976	2.479	12.14	1.146	2	0
AURORA 3.1 WSW	41.7565, -88.3518	704.068	6.758	2.952	3.061	1	0
AURORA WATER	41.7803, -88.3092	674.869	8.894	26.247	4.236	2573	0
WHEATON 3 SE	41.8128, -88.0728	680.118	21.242	20.998	10.005	47	0

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	41.842375, -88.375899
Observation Date	2023-08-16
Elevation (ft)	715.707
Drought Index (PDSI)	Incipient wetness
WebWIMP H ₂ O Balance	Dry Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2023-08-16	2.558268	4.847638	2.661417	Normal	2	3	6
2023-07-17	2.436614	4.623228	7.622047	Wet	3	2	6
2023-06-17	3.325591	5.124016	0.251969	Dry	1	1	1
Result							Normal Conditions - 13



**US Army Corps
of Engineers.**



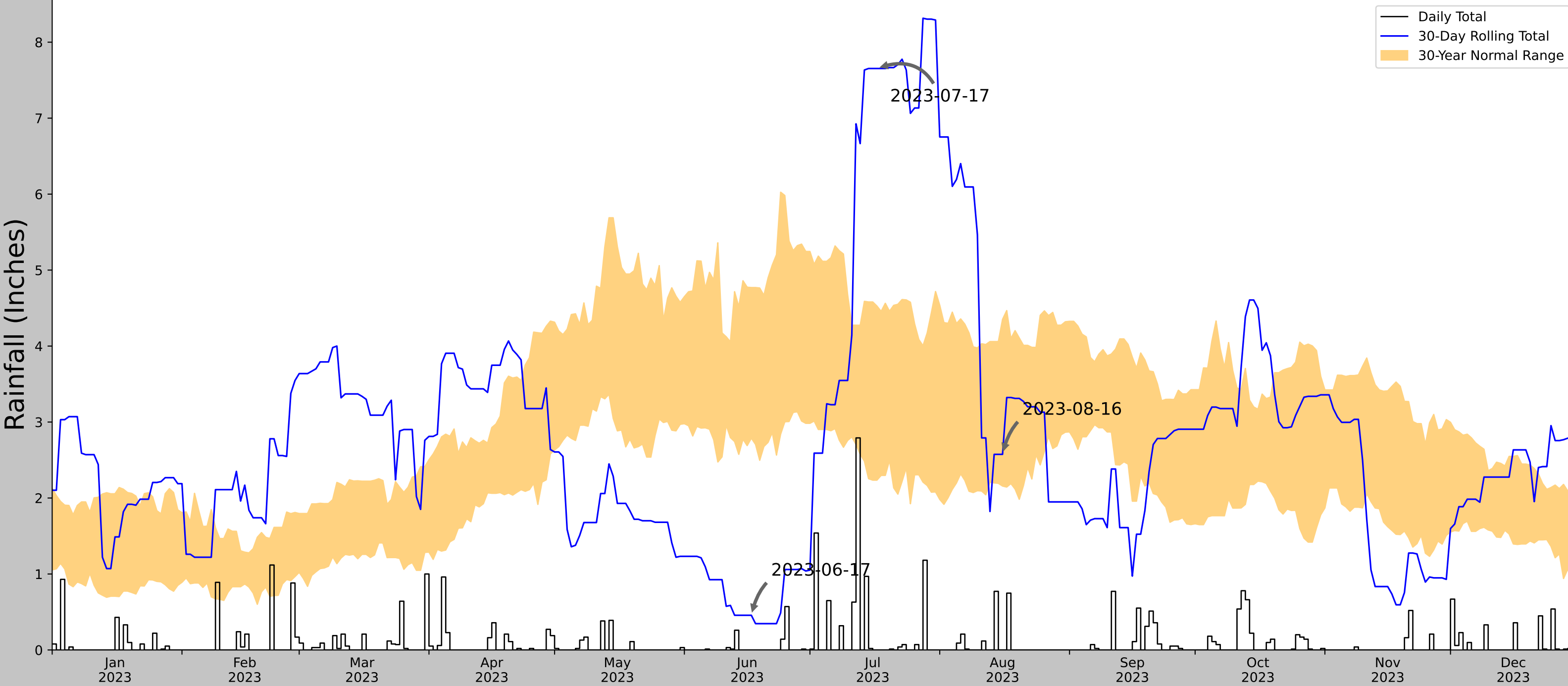
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Development Center

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
AURORA WATER	41.7803, -88.3092	674.869	5.495	40.838	2.697	11289	90
AURORA 2.8 WSW	41.7588, -88.3461	687.008	2.413	12.139	1.115	4	0
AURORA 3.4 W	41.7723, -88.3577	689.961	2.559	15.092	1.19	6	0
NORTH AURORA 1.5 NE	41.8163, -88.3068	719.16	2.49	44.291	1.231	2	0
CHICAGO AURORA MUNI AP	41.7714, -88.4814	701.116	8.894	26.247	4.236	5	0
WHEATON 3 SE	41.8128, -88.0728	680.118	12.382	5.249	5.637	47	0

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	41.80264, -88.466322
Observation Date	2023-08-16
Elevation (ft)	703.538
Drought Index (PDSI)	Incipient wetness
WebWIMP H ₂ O Balance	Dry Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2023-08-16	2.15748	4.351575	2.574803	Normal	2	3	6
2023-07-17	2.235039	4.527165	7.653544	Wet	3	2	6
2023-06-17	2.787795	4.770473	0.456693	Dry	1	1	1
Result							Normal Conditions - 13



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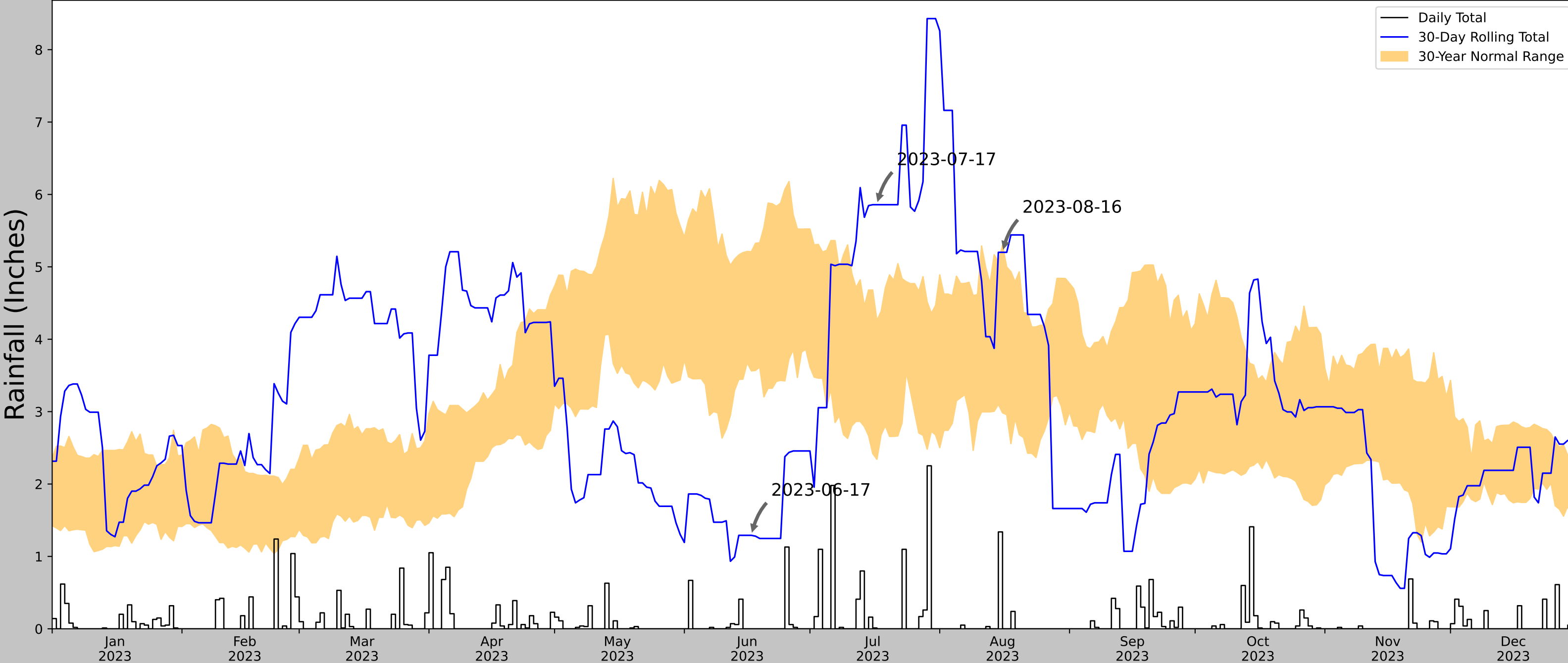
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Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
CHICAGO AURORA MUNI AP	41.7714, -88.4814	701.116	2.294	2.422	1.038	8701	90
SUGAR GROVE 0.7 NE	41.7762, -88.4478	714.895	1.763	13.779	0.818	29	0
SUGAR GROVE 1.4 ENE	41.7787, -88.4343	688.976	2.479	12.14	1.146	2	0
AURORA 3.1 WSW	41.7565, -88.3518	704.068	6.758	2.952	3.061	1	0
AURORA WATER	41.7803, -88.3092	674.869	8.894	26.247	4.236	2573	0
WHEATON 3 SE	41.8128, -88.0728	680.118	21.242	20.998	10.005	47	0

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	41.916379, -88.435362
Observation Date	2023-08-16
Elevation (ft)	916.103
Drought Index (PDSI)	Incipient wetness
WebWIMP H ₂ O Balance	Dry Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2023-08-16	2.983071	5.3	5.200788	Normal	2	3	6
2023-07-17	2.341339	4.258662	5.858268	Wet	3	2	6
2023-06-17	3.562599	5.209055	1.291339	Dry	1	1	1
Result							Normal Conditions - 13

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
ELGIN WATER	42.0628, -88.2861	745.079	12.693	171.024	7.882	11207	90
ELGIN 1.9 NE	42.0606, -88.264	807.087	1.144	62.008	0.586	5	0
ELGIN 0.9 WSW	42.0366, -88.3056	830.053	2.068	84.974	1.106	14	0
ELGIN 2.3 WNW	42.0531, -88.3294	824.147	2.32	79.068	1.227	13	0
ELGIN 1.0 S	42.0256, -88.2885	777.887	2.573	32.808	1.242	17	0
STREAMWOOD	42.0256, -88.1783	818.898	6.099	73.819	3.195	76	0
BARRINGTON 3SW	42.1153, -88.1639	882.874	7.24	137.795	4.256	2	0
ELK GROVE VILLAGE	42.0033, -88.0069	700.131	14.907	44.948	7.378	4	0
MCHENRY STRATTON LOCK/DAM	42.3097, -88.2533	735.892	17.142	9.187	7.871	14	0
CRYSTAL LAKE 4NW	42.2611, -88.3953	931.102	14.799	186.023	9.413	1	0



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