

USACE SAVANNAH DISTRICT WATER MANAGEMENT OVERVIEW

Kat Feingold
Stan Simpson



Savannah
DISTRICT



US Army Corps of Engineers
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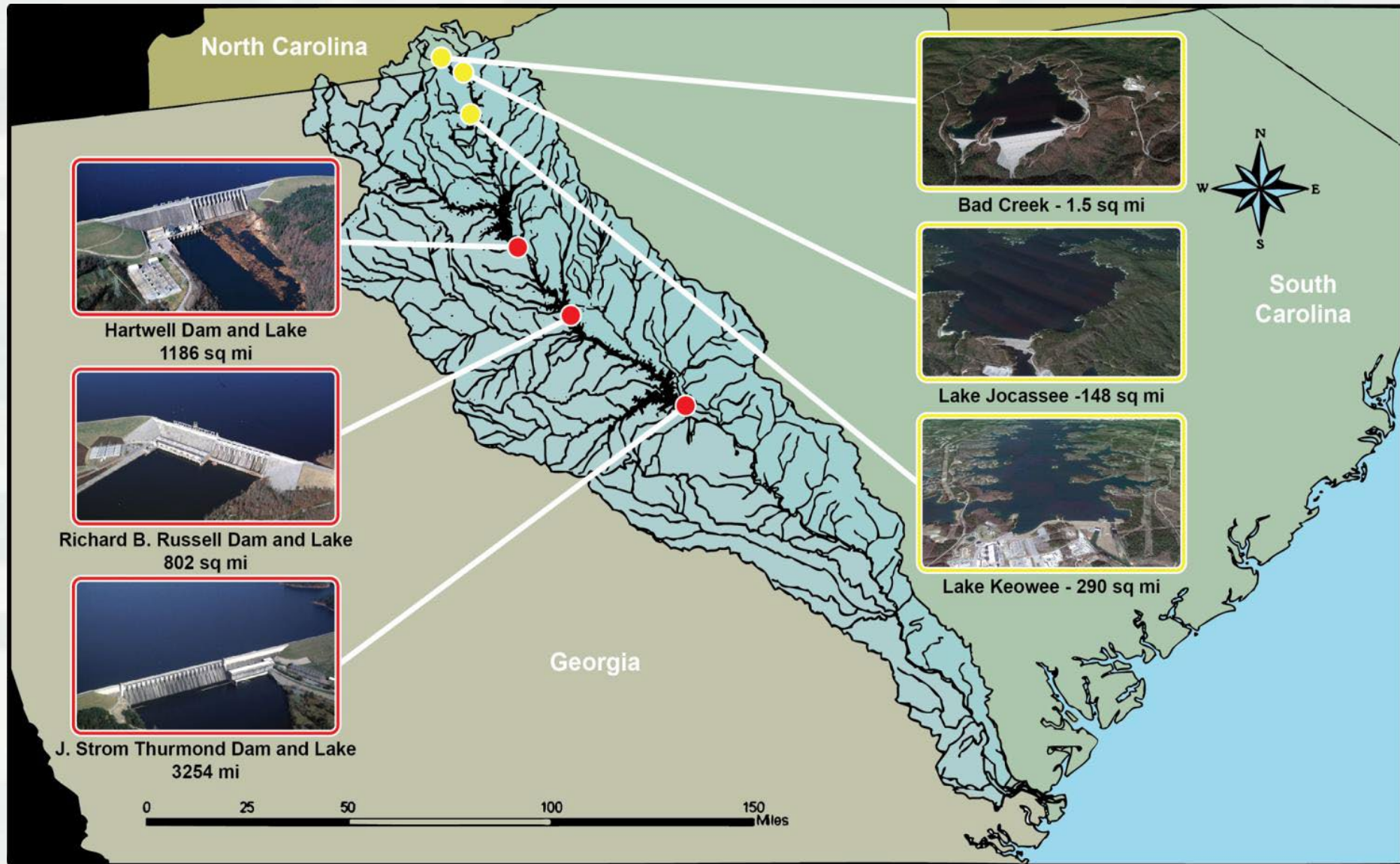
AGENDA

- **Basin Overview**
- **Drought Management overview**
- **Current Basin Status**
- **Basin Forecast**
- **Questions**



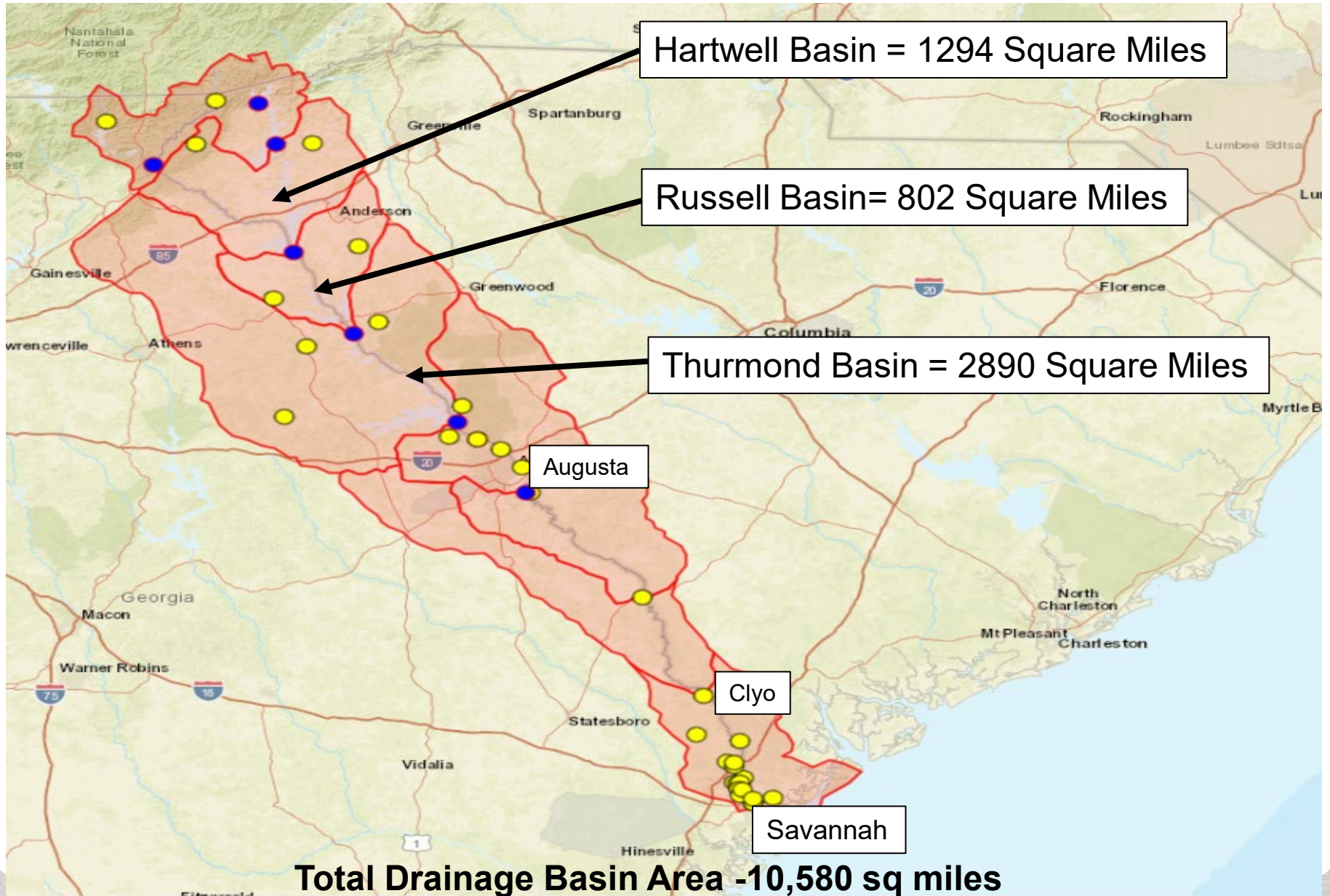
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MANAGED AS SYSTEM OF PROJECTS



Total Drainage Basin Area -10,580 sq miles

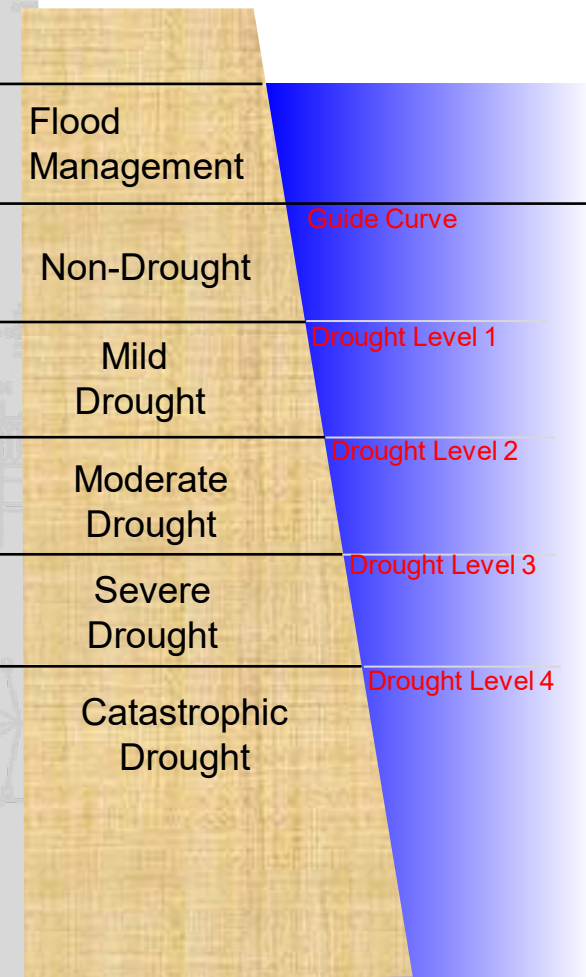
DRAINAGE BASINS



CONGRESSIONAL AUTHORIZATION

Congressional Authorization			
Authorized Purpose	Hartwell	Russell	Thurmond
Flood Damage Reduction	Flood Control Act of 1950	Flood Control Act of 1966	Flood Control Act of 1944
Hydropower			
Navigation		No Navigation Authorization	
Water Supply	Water Supply Act of 1958		
Water Quality	Federal Water Pollution Control Act of 1972		
Fish and Wildlife	Federal Water Project Recreation Act of 1965	Federal Water Project Recreation Act of 1965, WRDA 1986	WRDA 1986
Recreation		Federal Water Project Recreation Act of 1965	

BALANCING FLOOD RISK MANAGEMENT OPERATIONS



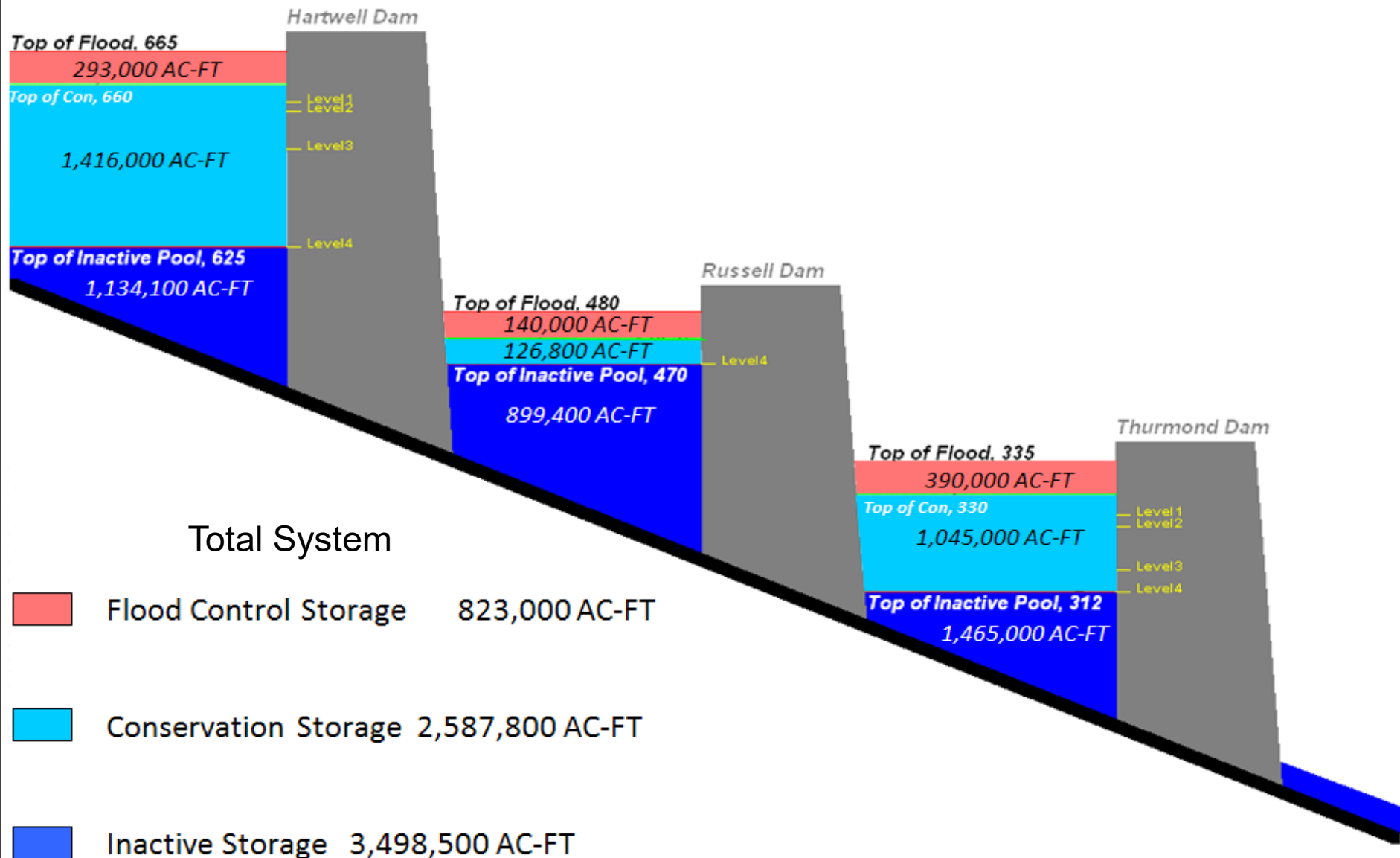
Flood Risk Management
Navigation
Hydropower
Recreation
Fish and Wildlife
Water Quality
Water Supply



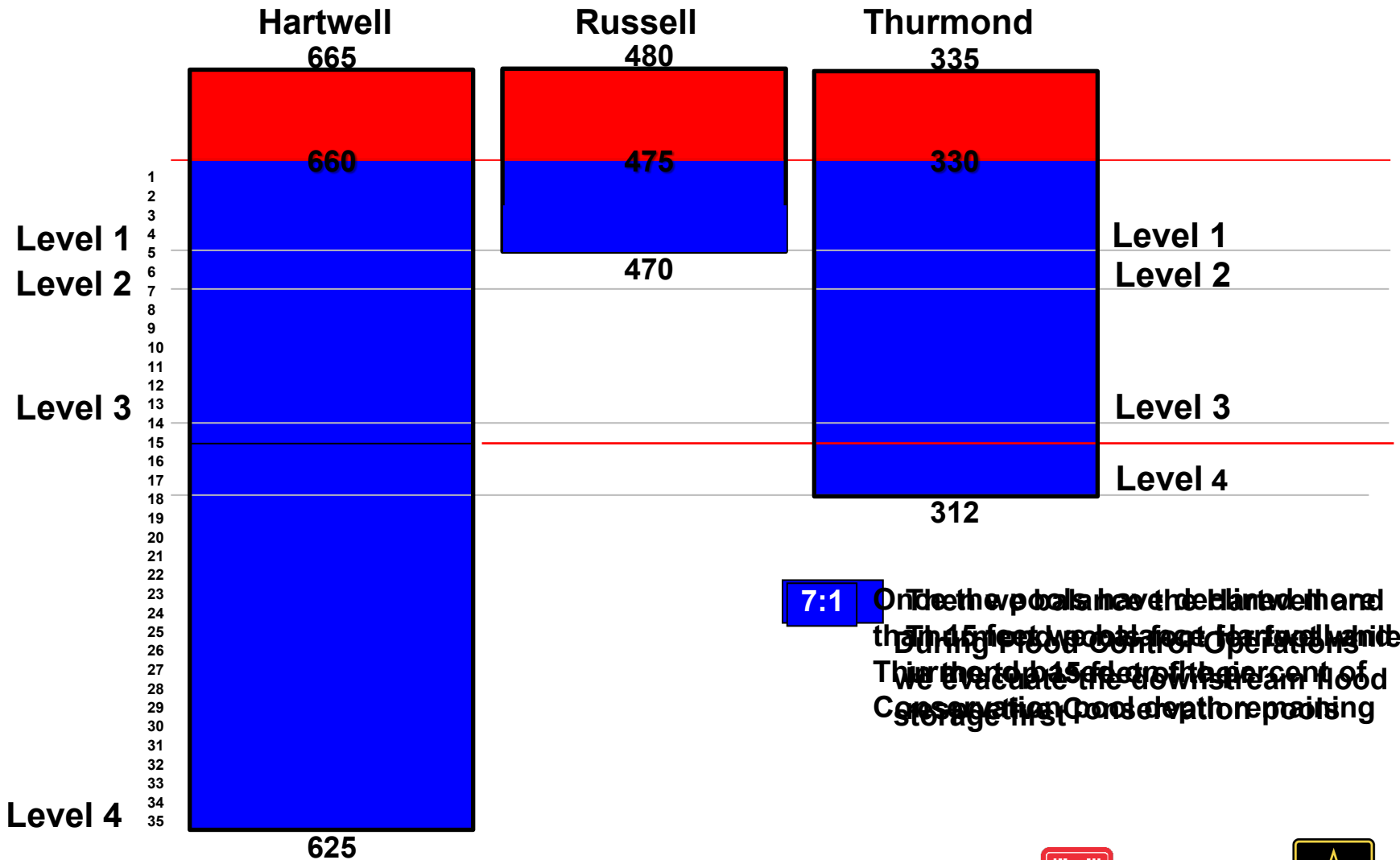
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POOL SCHEMATIC



POOL BALANCING PROCEDURE



7:1 Once the pools have been balanced and the 15 feet pool height barrier is in place during Flood Control Operations, we evaluate the downstream flood conservation pond depth reporting storage first.



Savannah River Basin Drought Management Plan

September 2012



- Located at: <https://water.sas.usace.army.mil/DroughtPlan/SRBDMP.pdf>



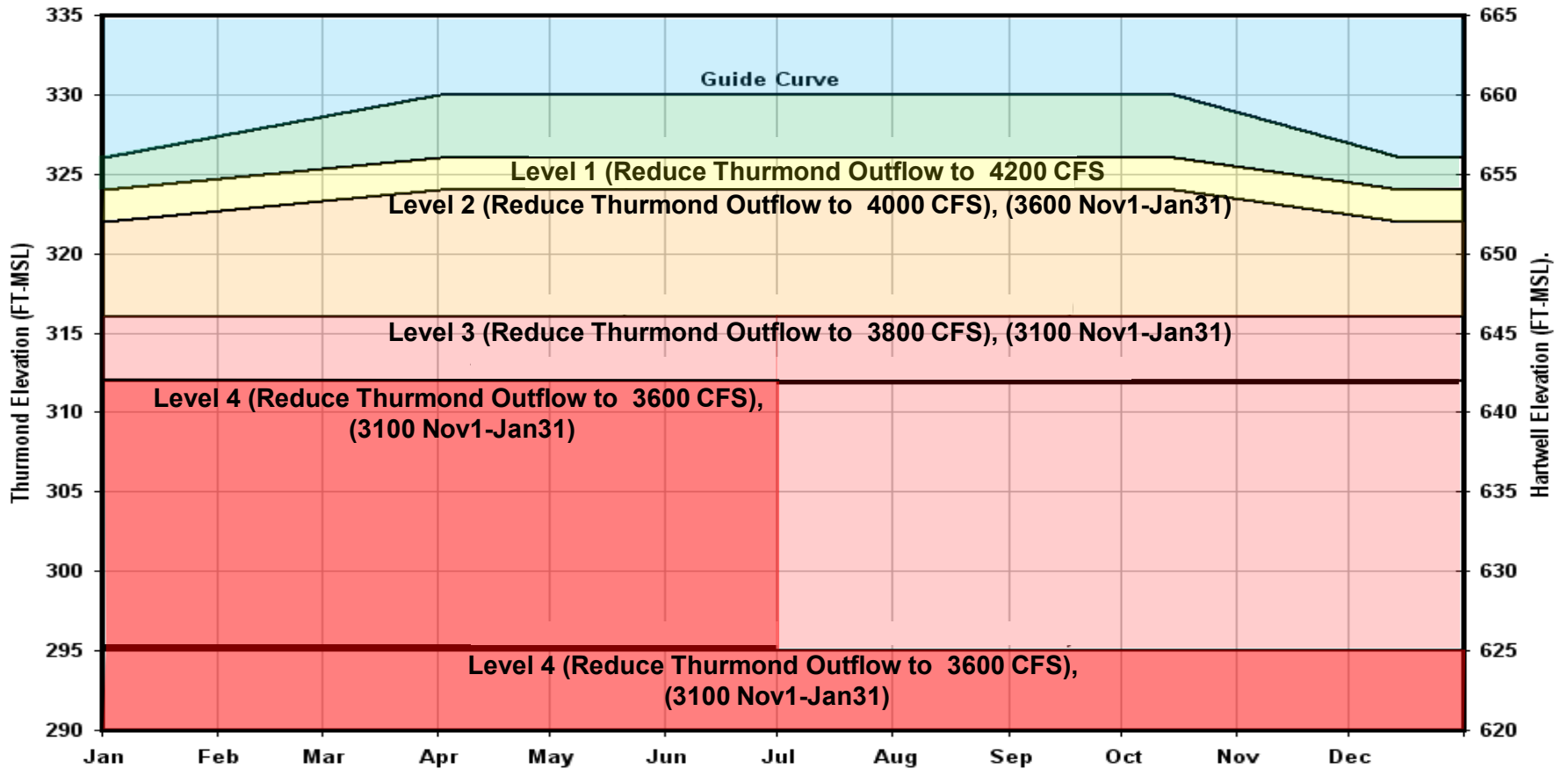
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U.S. ARMY

DROUGHT TRIGGER LEVELS

2012 Drought Plan



Flood Operation
Normal Operation
Drought Operation



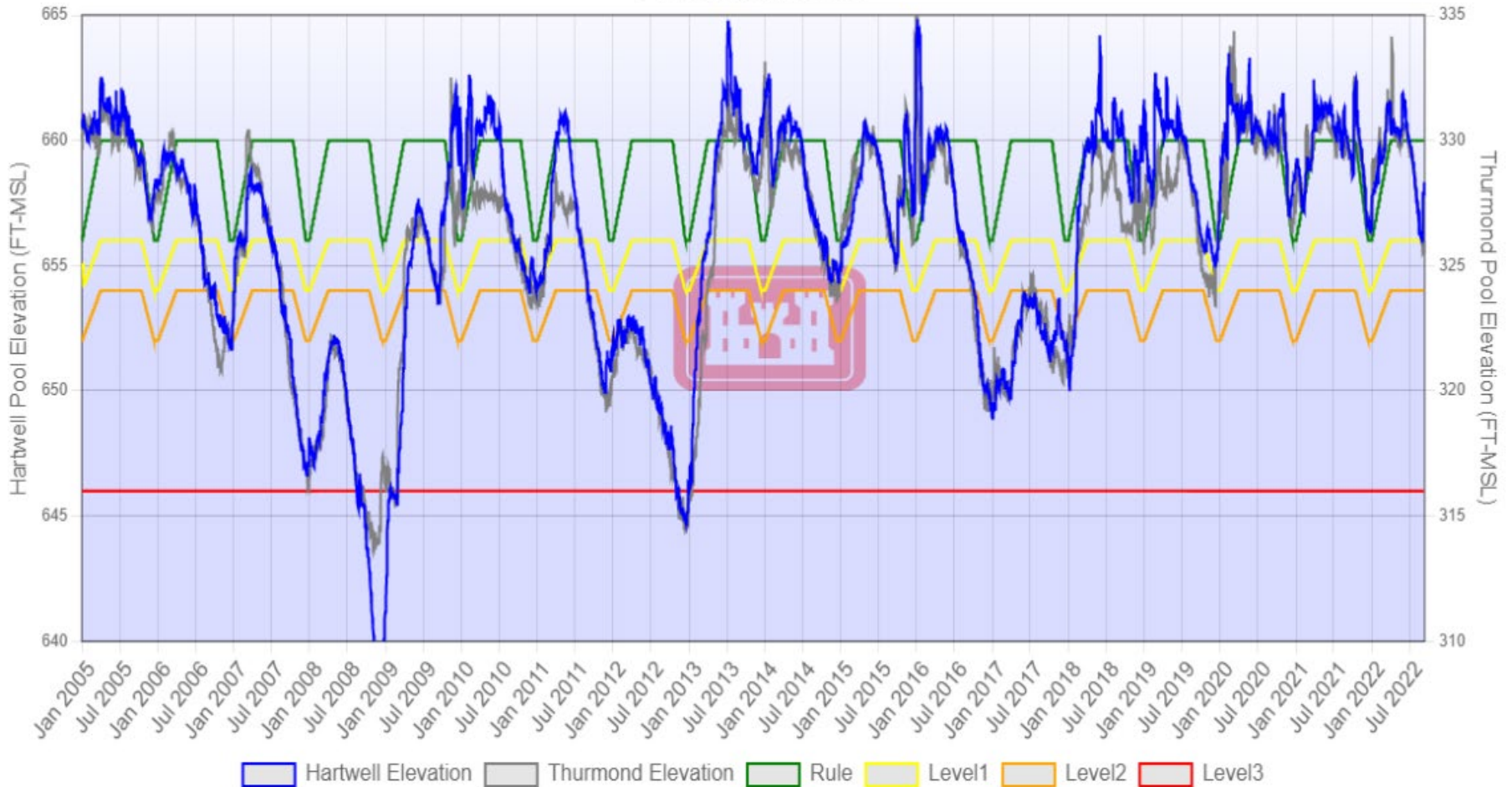
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POOL BALANCING

HARTWELL VS THURMOND

POOL BALANCING



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POOL BALANCING

HARTWELL VS THURMOND

POOL BALANCING



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HARTWELL PROJECT

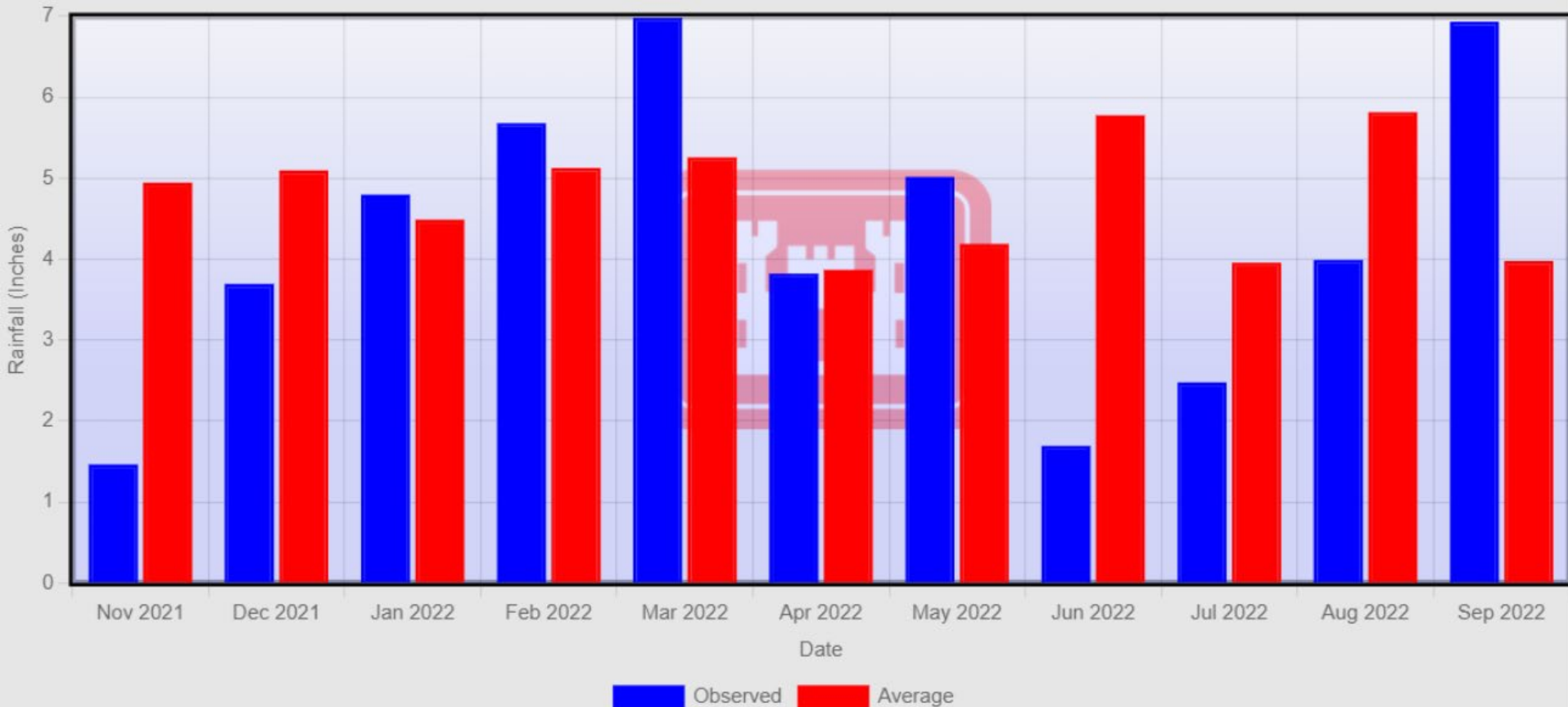


THURMOND PROJECT



ANNUAL PRECIPITATION

HARTWELL PROJECT

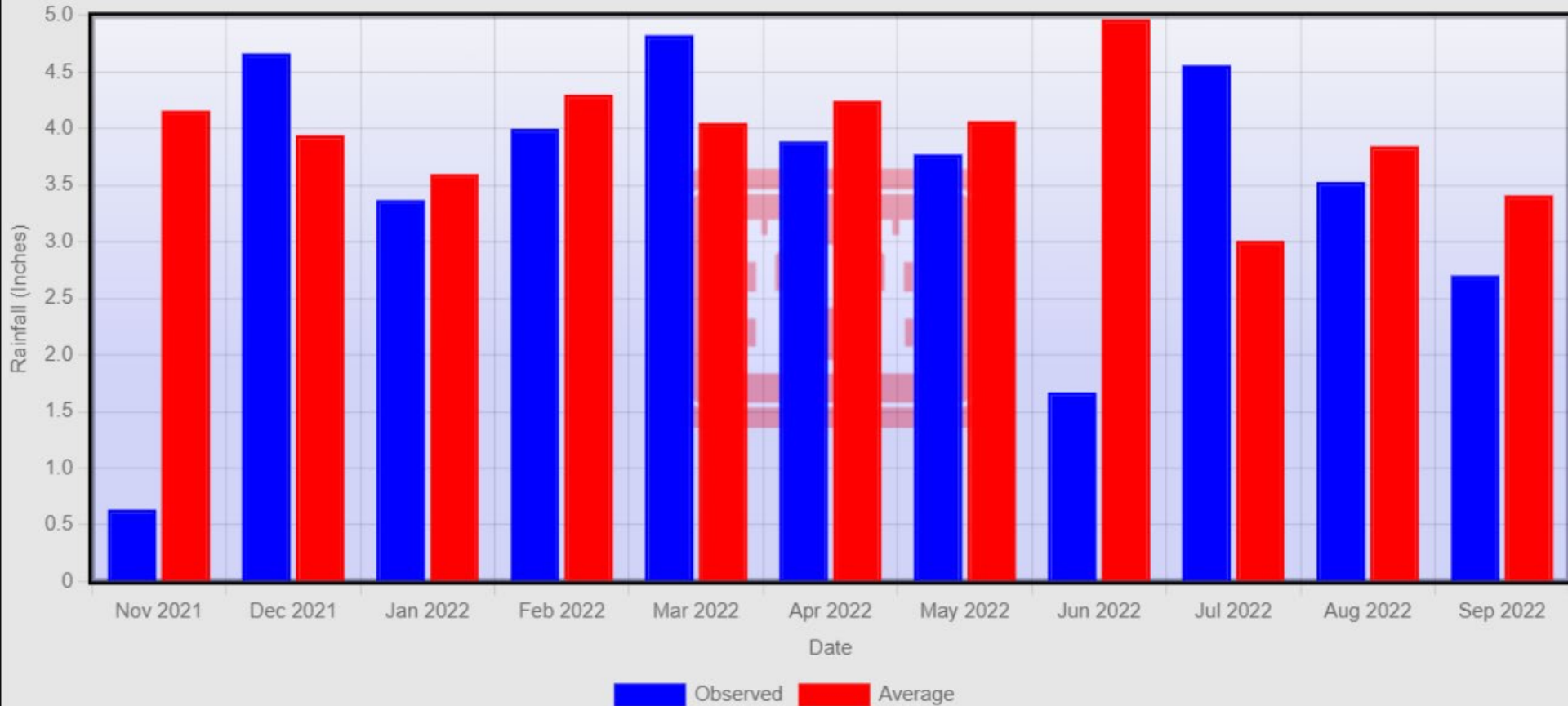


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ANNUAL PRECIPITATION

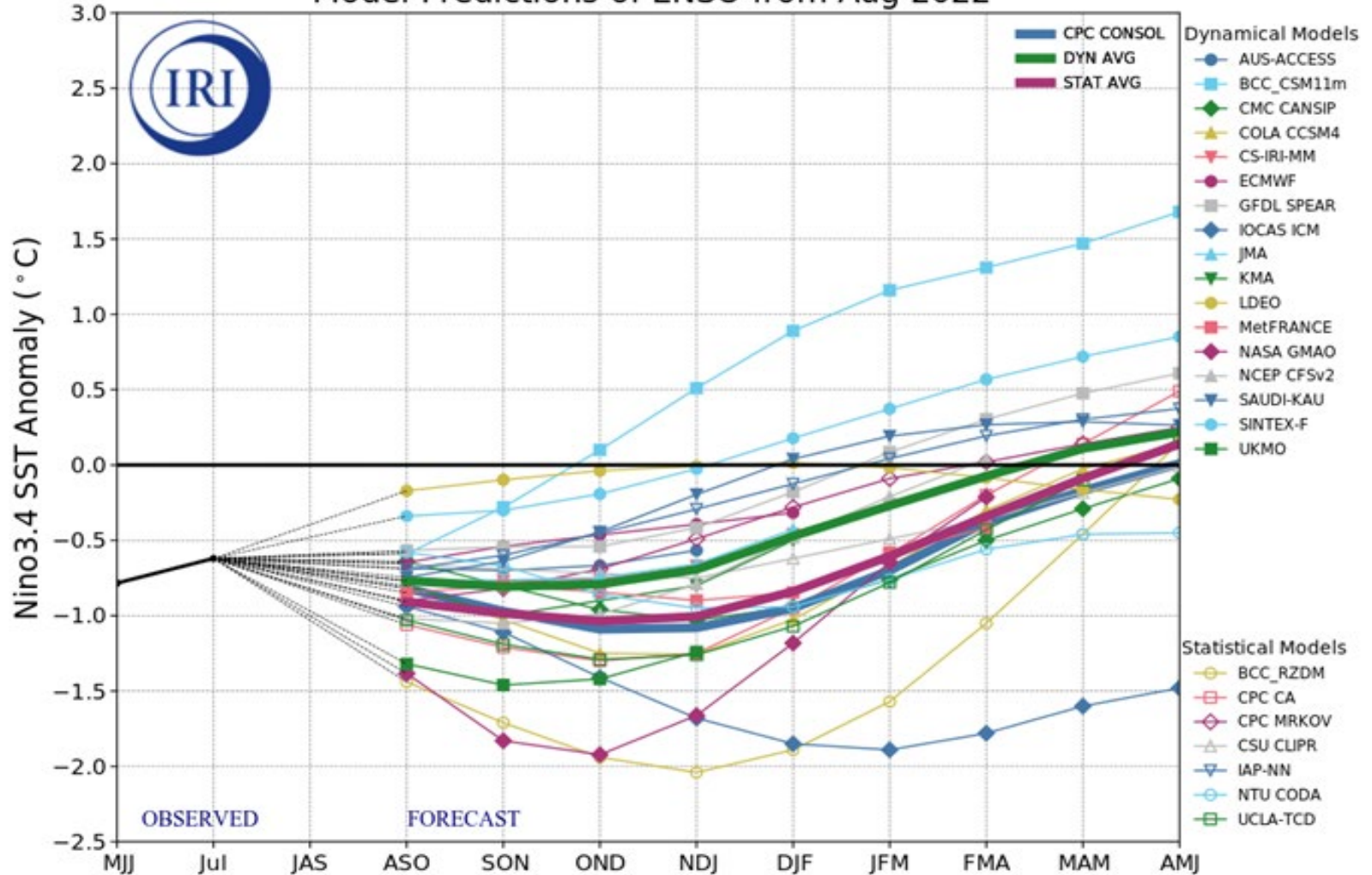
THURMOND PROJECT



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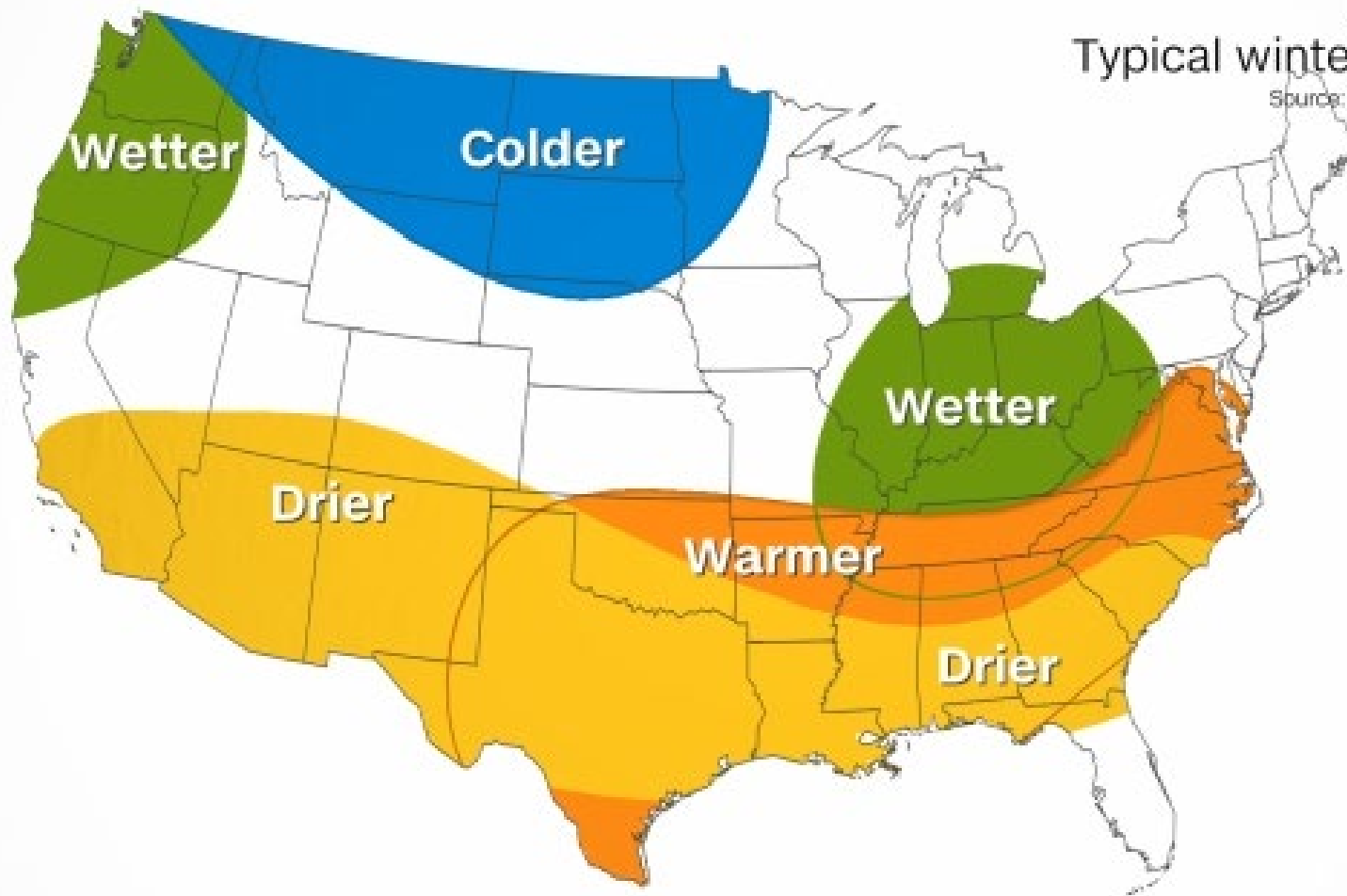
Model Predictions of ENSO from Aug 2022



La Niña

Typical winter pattern

Source: NOAA Climate.gov



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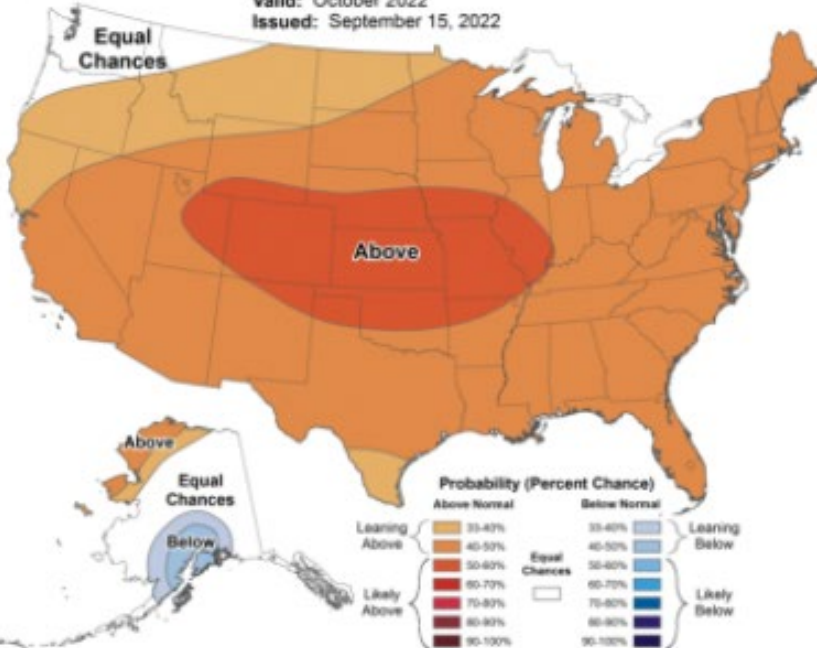




Monthly Temperature Outlook



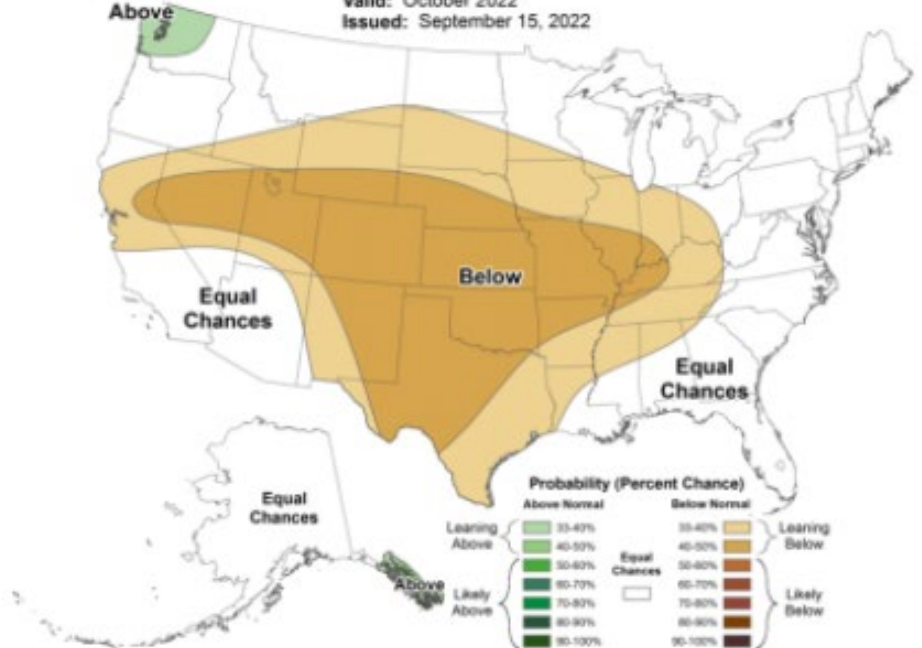
Valid: October 2022
Issued: September 15, 2022



Monthly Precipitation Outlook



Valid: October 2022
Issued: September 15, 2022



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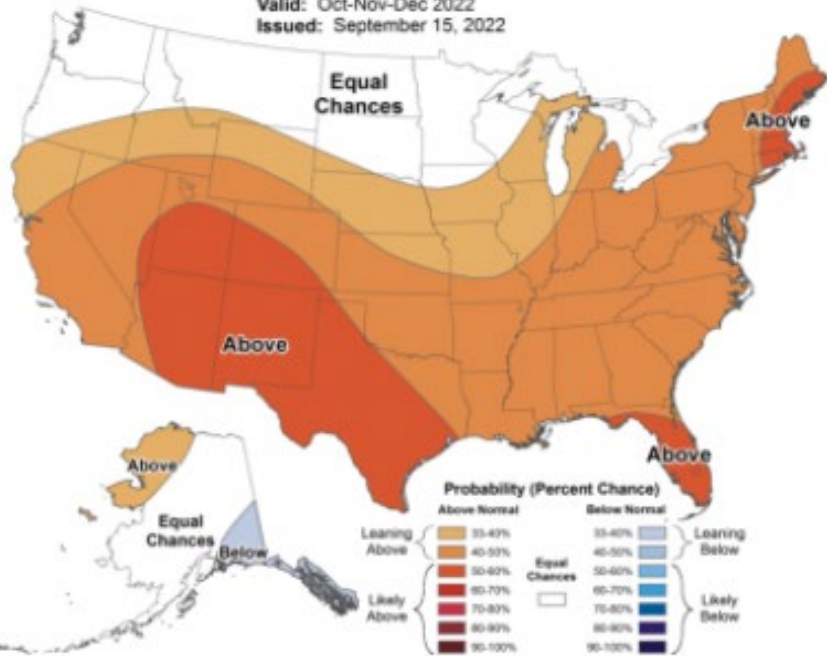




Seasonal Temperature Outlook



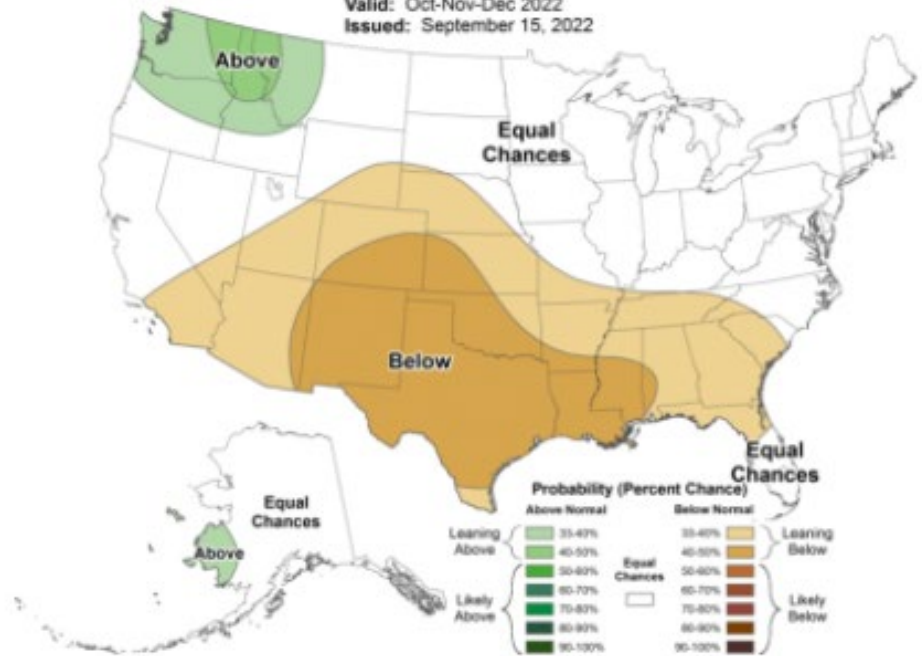
Valid: Oct-Nov-Dec 2022
Issued: September 15, 2022



Seasonal Precipitation Outlook



Valid: Oct-Nov-Dec 2022
Issued: September 15, 2022



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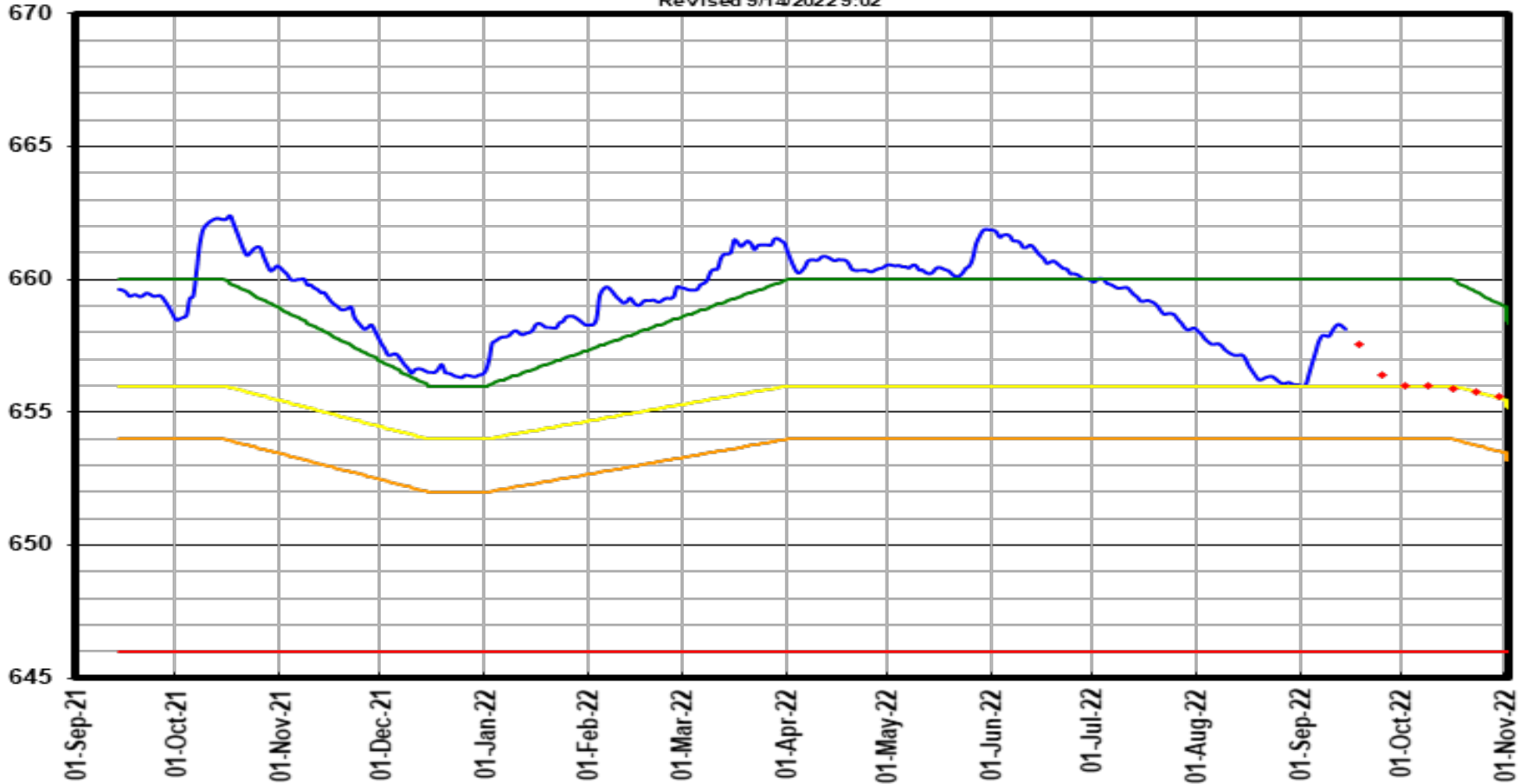


POOL PROJECTION

Hartwell Lake

Observed Inflows remain a constant 75% of normal throughout projection

Revised 9/14/2022 9:02



♦ Projected — Observed — Level 1 — Level 2 — Level 3



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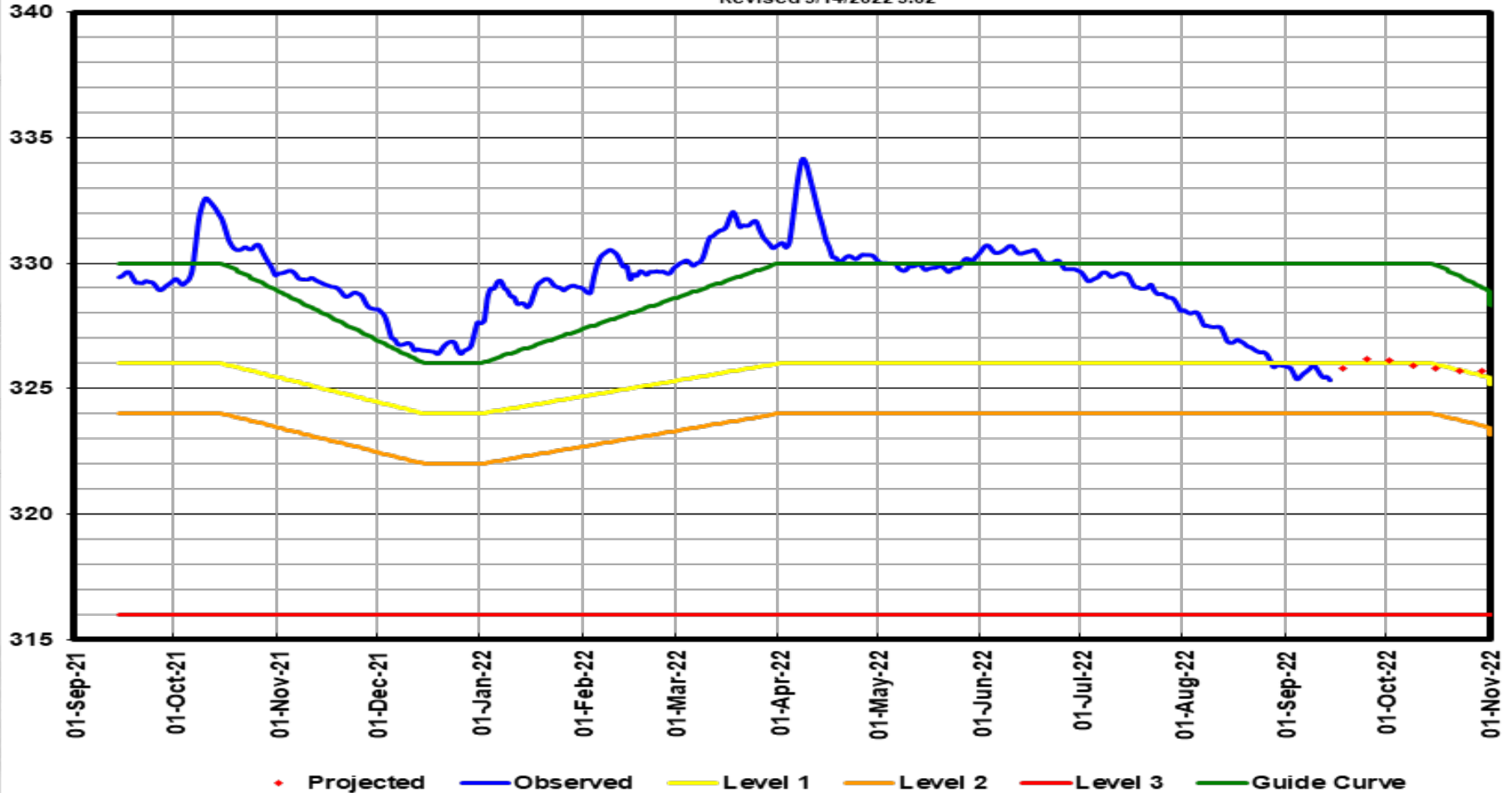


POOL PROJECTION

Thurmond Lake

Observed Inflows remain a constant 75% of normal throughout projection

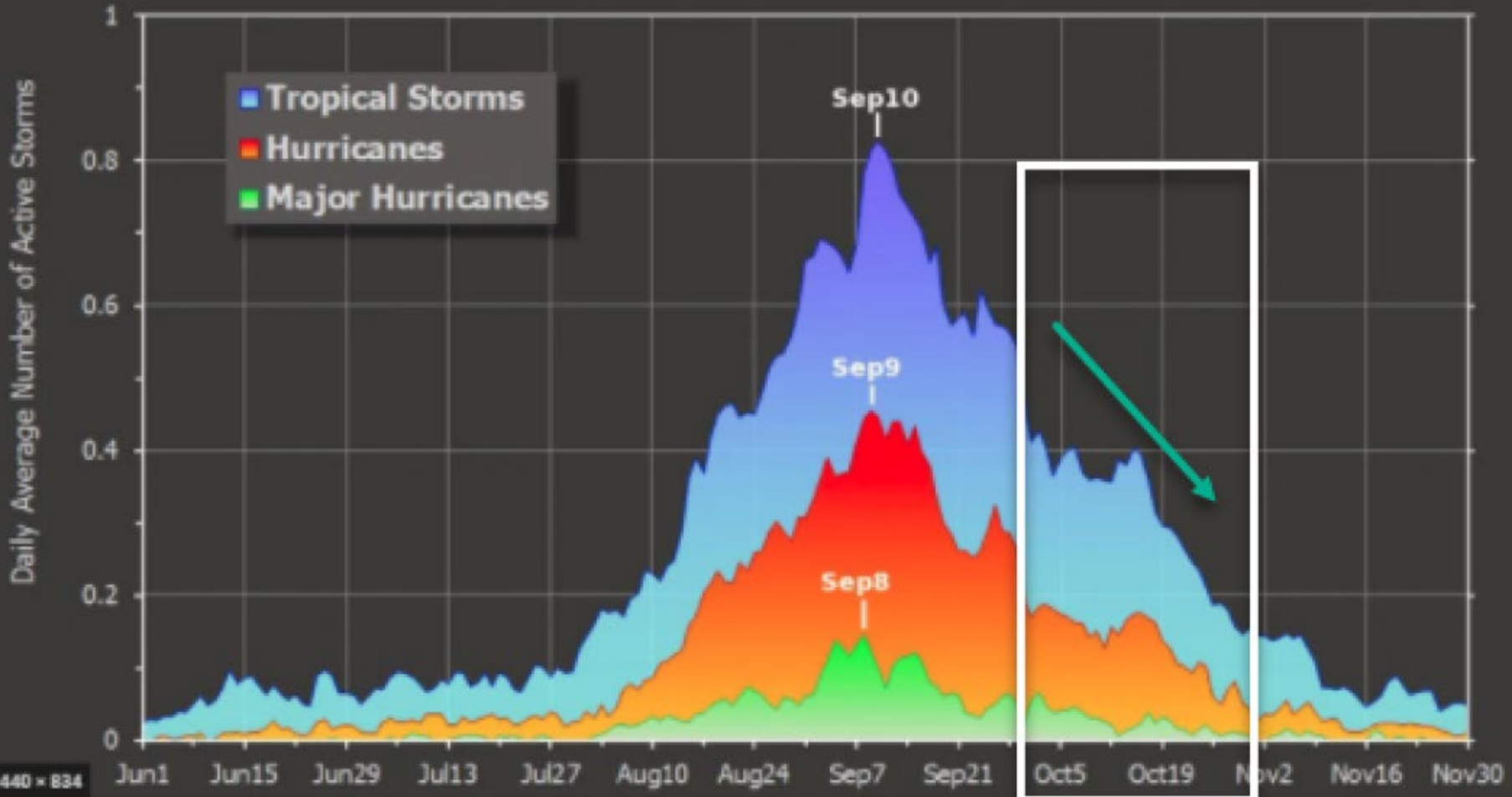
Revised 9/14/2022 9:02



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Atlantic Tropical Cyclone Climatology (1851-2013)



1440 - 834



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WATER MANAGEMENT WEB PAGE



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Savannah District Water Management

May 19, 2021 15:14	HARTWELL	RUSSELL	THURMOND
Current Pool Elevation	661.36	474.91	331.03
Guide Curve Elevation	660.00	475.00	330.00
Average Elevation	659.62	474.48	328.73
Todays Precip (in)	0.00	0.00	0.00
Monthly Precip (in)	3.21	3.42	3.58

MORNING REPORT

HOURLY PROJECT DATA

DECLARATIONS

POOL SCHEMATIC

OBSERVED RAINFALL

Rainfall Forecast Day	1	2	3	4	5	6	7
	1-3		4-5		6-7		
	1-5				6-7		

DROUGHT PLAN INFO

HISTORIC DATA

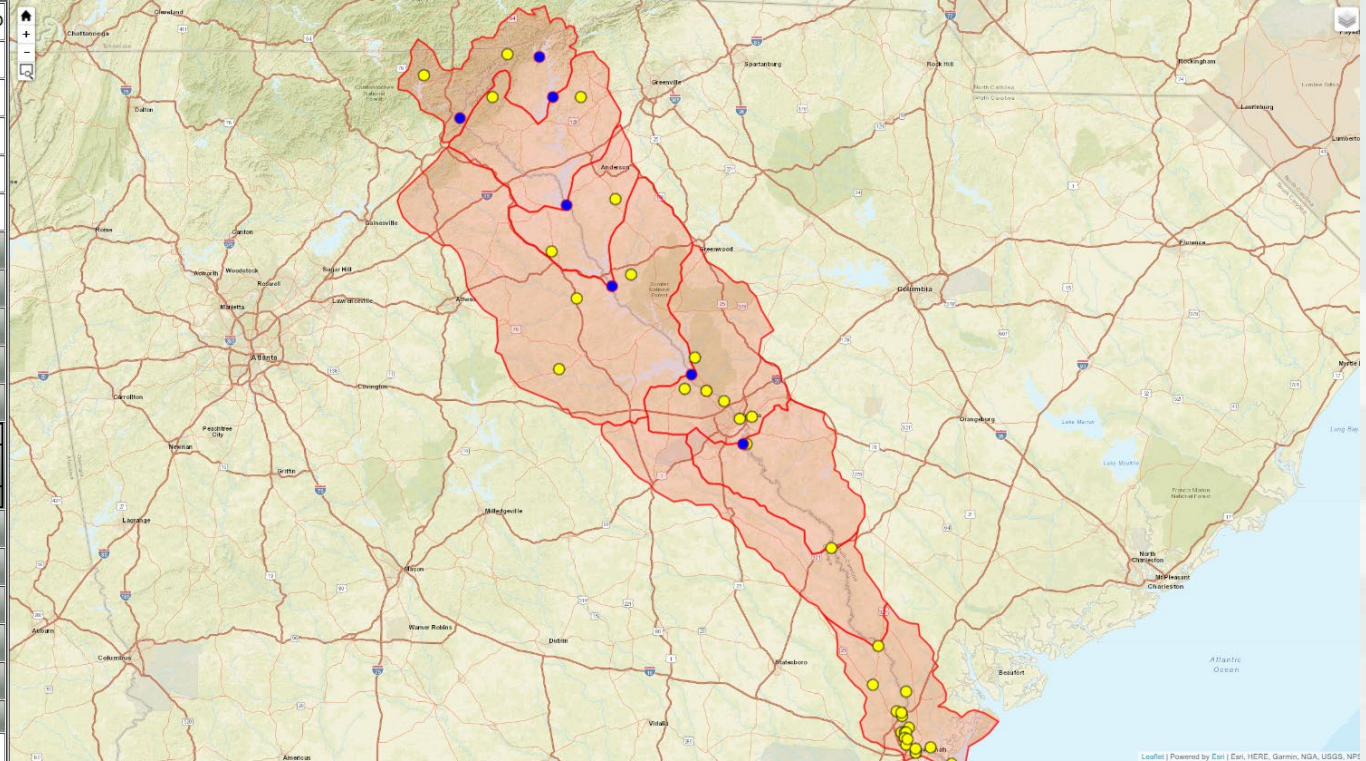
MISCELLANEOUS PRODUCTS

OTHER USEFUL LINKS

BALANCING THE BASIN

MOBILE PAGE

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This data is provisional and subject to change











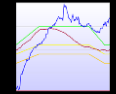
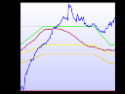
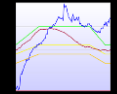





<https://water.sas.usace.army.mil>



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Smart Device Option

USACE SAVANNAH

 Lake Levels	 Outflows	 Rainfall	 Rainfall Forecast
 Hartwell Data	 Russell Data	 Thurmond Data	 Streamflow Forecast
 Hartwell Projection	 Russell Projection	 Thurmond Projection	 Savannah Gages
 Facebook	 Twitter	 Feeds	 Contact Us

<https://water.sas.usace.army.mil/smart>



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Questions?



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