

How to Read the Output of a Watershed Analysis



**US Army Corps
of Engineers®**



Antecedent Precipitation Tool
Version 2.0

Developed by:
U.S. Army Corps of Engineers and
U.S. Army Engineer Research and
Development Center

Antecedent Precipitation Tool v.2.0 - Watershed Sampling Summary

Generated on 2021-10-15

User Inputs

Coordinates	33.2098, -87.5692
Date	2021-10-15
Geographic Scope	HUC12
Used Gridded Precipitation	False

Coordinates of the
observation point
(Source: User Input)

Intermediate Data

Hydrologic Unit Code	031601120505
Watershed Size	30.57 mi ²
# Random Sampling Points	5

Preliminary Result

Average Antecedent Precipitation Score	15.0
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
15	Wetter than Normal	Wet Season	Extreme wetness	5

100.0%

Antecedent Precipitation Tool v.2.0 - Watershed Sampling Summary

Generated on 2022-06-14

User Inputs

Coordinates	33.2098, -87.5692
Date	2021-10-15
Geographic Scope	HUC12
Used Gridded Precipitation	False

observation date
(Source: User Input)

Intermediate Data

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Geographic Scope

- Single Point
- HUC8, HUC10, HUC12
- Custom Watershed

(Source: User Input)

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15	Wetter than Normal	Wet Season	Extreme wetness	5

Used Gridded Precipitation
- True: Analysis based upon APT grid-based assessment
- False: Analysis based upon APT station-based assessment

(Source: User Input)

100.0%

Wetter than Normal

Antecedent Precipitation Tool v.2.0 - Watershed Sampling Summary

Generated on 2022-06-06

User Inputs

Coordinates	33.2098, -87.5692
Date	2021-10-15
Geographic Scope	HUC12
Used Gridded Precipitation	False

Intermediate Data

Hydrologic Unit Code	031601120505
Watershed Size	30.57 mi ²
# Random Sampling Points	5

Preliminary Result

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Preliminary Determination	Wetter than Normal

Sampling Point Breakdown

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Hydrologic Unit Code (HUC)

The specific identification code of the watershed feature within which the Observation Location falls.

If Custom Polygon is selected, this will be the name given by the user for the Custom Watershed Polygon (e.g., EPA WATERS Drainage Area)

Wetter than Normal

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Intermediate Data

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The area of the watershed polygon in square miles.

The area is calculated with open source GIS libraries (GDAL/OGR) using the North America Albers Equal Area Conic projection.

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Number of Random Sampling Points

The number of points within the watershed which were sampled by the APT to make the preliminary determination.

see the Technical and User Guide for additional details

100.0%

Wetter than Normal

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Generated on 2022-06-14

User Inputs

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Geographic Scope	HUC12
Used Gridded Precipitation	

Intermediate Data

Hydrologic Unit Code	
Watershed Size	
# Random Sampling Points	5

Average Antecedent Precipitation Score

The source numbers are listed in the Sampling Point Breakdown table below.

Preliminary Result

Average Antecedent Precipitation Score	15.0
Preliminary Determination	Wetter than Normal

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Sampling Point Breakdown

Antecedent Precipitation Score	Antecedent Precipitation Condition	WebWIMP H ₂ O Balance	Drought Index (PDSI)	# of Points
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Preliminary Determination

By preliminary, this means that it is not considering any factors outside of the average Antecedent Precipitation Score.

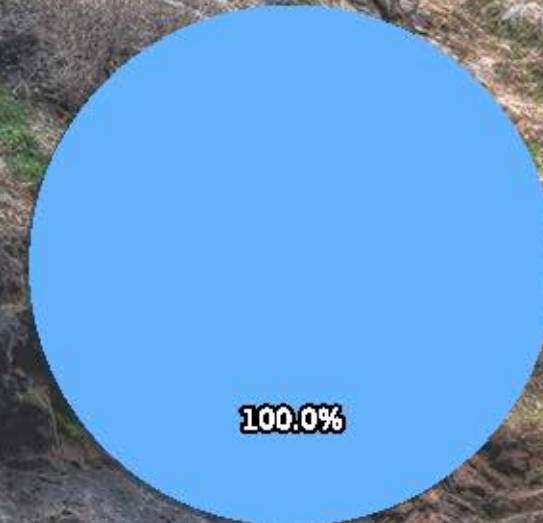
Drier than Normal: Avg. Score < 10

Normal Conditions: Avg. Score ≥ 10 and < 15

Wetter than Normal: Avg. Score ≥ 15

-87.5692
-10-15
C12
ilse

120505
7 ml ²
5



Wetter than Normal

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Sampling Point Breakdown

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Generated on 2022-06-14

User Inputs

Coordinates	33.2098
Date	2021
Geographic Scope	HU
Used Gridded Precipitation	F

Intermediate Data

Hydrologic Unit Code	03160
Watershed Size	30.5
# Random Sampling Points	

Preliminary Result

Average Antecedent Precipitation Score	
Preliminary Determination	Wetter than Normal

Sampling Locations

This summary table provide a summary of all sampling points used to make the preliminary determination. Each row in this table constitutes a unique grouping of sampling points with consistent Antecedent Precipitation Score and Condition, WebWIMP Wet Season/Dry Season Determination, and PDSI condition.

Additional discussion on the output of the APT can be found by accessing the APT Technical and User Guide in the Help menu.

Sampling Point Breakdown

Antecedent Precipitation Score	Antecedent Precipitation Condition	WebWIMP H ₂ O Balance	Drought Index (PDSI)	# of Points
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