

Watershed Characteristics Report

Marias R nr Shelby

Publisher: nwcc_nrcs

Comments: Generated by the final test release of BAGIS Pro Basin Analysis Report Tool

Local file path: E:\NWCC\BasinAnalysisReport_AOIs\selected_AOIs\marias_r_nr_shelby_10312010

Exported on October 5, 2022 at 7:42 PM (UTC-08:00) Pacific Time (US & Canada)

For more information see the Basin Analysis Reports Users Manual at <https://nwcc-nrcs.hub.arcgis.com/documents/basin-analysis-reports-users-manual>

The boundary of a basin is the watershed delineated upstream of the stream gage station listed below:

Streamgage station: 06099500:MT:USGS

Streamgage station name: Marias R nr Shelby

Delineated drainage area: 2723.88 square miles

Annual runoff ratio: 17.75% (Annual runoff ratio is calculated as the volume of potential annual runoff from precipitation divided by the normal annual runoff observed at the stream gage.)

Elevation range: 3099.45 to 9479.79 feet

SITE (Delete "S")

SNOTEL Sites: 3; within basin: 2; within a 5 Kilometers buffer distance outside of basin: 1 (See AUTOMATED SITES REPRESENTATION map)

Snow Courses: 2; within basin: 1; within a 5 Kilometers buffer distance outside of basin: 1 (See SNOW COURSE SITES REPRESENTATION map)

Network Representation Analysis

SITE (Delete "S")

Delete "S"

Site representation definition: within 5.642 miles planar radius, with 500 feet above and below site elevation.

Percent of total basin represented by automated site(s): 3% (See AUTOMATED SITES REPRESENTATION map)

Percent of total basin area represented by snow course site(s): 1% (See SNOW COURSE SITES REPRESENTATION map) Percent of total basin area represented by both automated and snow course site(s): 3% (See ALL SITES REPRESENTATION map)

Delete "S"

Potential Site Location Analysis

Potential site location meets the following criteria:

Delete "S"

- on federal non-wilderness or tribal land, AND
- on deciduous, evergreen, and mixed forested land, AND
- within 300 Feet of access roads

SNOLITE Sites: X; within basin: X; within a 5 Kilometers buffer distance outside of basin: X (See AUTOMATED SITES REPRESENTATION map)

Coop Pillow Sites: X; within basin: X; within a 5 Kilometers buffer distance outside of basin: X (See AUTOMATED SITES REPRESENTATION map)

Report generated using BAGIS Pro – A tool maintained by the NRCS National Water and Climate Center (NWCC) and Center for Spatial Analysis & Research (CSAR), Geography, Portland State University

Add DEM source here

Data sources:

Snow Water Equivalent (SWE)

SWE Data Source - Averaged daily SNOW Data Assimilation System (SNODAS) Snow Water Equivalent (SWE) from 2004 to current water year data. See <https://www.nohrsc.noaa.gov/> for more information.

Clipped from: http://bagis.geog.pdx.edu/arcgis/services/DAILY_SWE_NORMALS/

Clipped on: October 5, 2022

Precipitation

30-year (1991-2020) monthly/quarterly/annual average precipitation data created by the PRISM Climate Group. See <https://prism.oregonstate.edu/> for more information.

Clipped from: http://bagis.geog.pdx.edu/arcgis/services/BAGIS_PRISM_1991_2020/

Clipped on: October 5, 2022

Active SNOTEL sites

Active SNOTEL sites data hosted on Natural Resources Conservation Service (NRCS) National Water and Climate Center (NWCC) Air and Water Database (AWDB). See

<https://www.nrcs.usda.gov/wps/portal/wcc/home/dataAccessHelp/webService/webServiceTutorial/> for more information.

Clipped from: https://services.arcgis.com/SXbDpmb7xQkk44JV/arcgis/rest/services/stations_SNTL_ACTIVE/FeatureServer/0

Clipped on: October 5, 2022

Active Snow Course sites

Active Snow Course sites hosted on Natural Resources Conservation Service (NRCS) National Water and Climate Center (NWCC) Air and Water Database (AWDB). See

<https://www.nrcs.usda.gov/wps/portal/wcc/home/dataAccessHelp/webService/webServiceTutorial/> for more information.

Clipped from: https://services.arcgis.com/SXbDpmb7xQkk44JV/arcgis/rest/services/stations_SNOW_ACTIVE/FeatureServer/0

Clipped on: October 5, 2022

Access Roads – for Potential Site Location Analysis

USFS FSTopo Transportation Line 2020 version. See

https://data.fs.usda.gov/geodata/edw/edw_resources/meta/S_USA.FSTopo_Transport_LN.xml for more information.

Clipped from:

https://services.arcgis.com/SXbDpmb7xQkk44JV/arcgis/rest/services/USFS_FSTopo_Transport_LN/FeatureServer/0

Clipped on: October 5, 2022

Public Land Ownership – for Potential Site Location Analysis

Federal non-wilderness and tribal land data based on the 2020 USGS Protected Areas Data (PAD) version 2.1. See <https://www.usgs.gov/programs/gap-analysis-project/science/pad-us-data-overview> for more information.

Clipped from: https://services.arcgis.com/SXbDpmb7xQkk44JV/arcgis/rest/services/Public_and_Tribal_Lands/FeatureServer/0

Clipped on: October 5, 2022

Land Cover – for Potential Site Location Analysis

2019 NLCD Land Cover. See <https://www.mrlc.gov> for more information.

Clipped from: http://bagis.geog.pdx.edu/arcgis/rest/services/BAGIS_Databin/NLCD_2019_land_cover/ImageServer

Clipped on: October 5, 2022

Station Runoff Volume

Average Annual Naturalized Runoff Volume (1991-2020) data retrieved from Natural Resources Conservation Service (NRCS) National Water and Climate Center (NWCC) Air and Water Database (AWDB) by NWCC in 2022.