



Thurston County ARES/RACES
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5th Saturday exercise for July 29, 2023

Scenario:

A major heat wave is occurring in Washington State. Temperatures are peaking between 107 and 112 degrees in the lowlands and in the 90's in the mountains, Camp Muir on Mt Rainier at 10,000 ft has recorded 86 degrees. This extreme temperature condition has accelerated the snow-pack melt-off and glacial runoff into several major Western Washington rivers, the Carbon, Puyallup, Nisqually and Deschutes among the most notable. Water levels are dangerously high and local flooding is a possibility.

Objective:

Monitor and report river levels at several key locations, photograph the river at specific intervals and report any flooding that occurs.

- Deploy to several different river access locations and photograph the river at 15 minute intervals. Safety is most important, park in a safe place off the pavement and walk to a safe location to take the photos. Locations listed below are just suggestions, find a good spot with river view access for your reports. The two rivers listed below are most likely to be affected by this scenario but choose any river in your area.
- Report observations and photographs (a minimum of 4 photos) to TCDEM via mobile Winlink, use wa7oly@winlink.org to send your reports. Use VARA or packet, either HF or VHF, ALL REPORTS MUST BE SENT VIA RADIO. If you don't have mobile Winlink, take the photos, record the data then return home and send the reports via your home station.
- Use an **ICS-213** to send your data and attach the photos to the data message. Resize the photos to comply with Winlink restrictions, no larger than 50kB per message.
- Record hours and miles for your deployment on your monthly hours spreadsheet and post it at the end of the month to the groups.io folder.

- Traffic control is on the OARS repeaters.

Sample Message:

Enter a new message

Post to Outbox Select Template ICS-213 ICS-213RR (WA) ICS-205 Local Wx Attachments Spell Check Save in Drafts Close

From: W7PLC Send as: Winlink Message ☐ Request message receipt Set Defaults

To: WA7OLY;

Cc: W7PLC;

Subject: 213-5th Saturday July 29, 2023-River status - 2023-07-16 14:05

Attach: RMS_Express_Form_ICs213_Initial_Viewer.xml; IMG_1139.jpg;

GENERAL MESSAGE (ICS 213)

1. Incident Name: 5th Saturday July 29, 2023
 2. To (Name and Position): DEM, wa7oly@winlink.org
 3. From (Name and Position): Phil Cornell W7PLC
 4. Subject: River status
 5. Date: 2023-07-16
 6. Time: 14:05
 7. Message:

Deschutes River status 7/16/2023 14:06, river level is within the river banks but is moving rapidly. Level has risen 6 inches in the last 20 minutes. I am moving to higher ground.

8. Approved by: Phil Cornell w7plc
 Position/Title: AEC

 Express Sending Station: W7PLC
 Senders Express Version: 1.7.8.0
 Senders Template Version: ICS 213 v.41.12

Suggested Locations:

- Deschutes River
 - Tumwater Historical Park
 - Tumwater Falls Park
 - Pioneer Park
 - 79th Ave SE
 - Rich Rd at Deschutes River Ranch
 - 5699 Waldrick Rd SE
- Nisqually River
 - Nisqually Reach Nature Center
 - Nisqually River Public Access (off main highway before the bridge)
 - Nisqually River Powerhouse Park Access Point (just before entering Yelm)
 - Nisqually River Bridge between Yelm and McKenna on Hwy 507

Sample photos:



*Figure 1: Nisqually Reach
Nature Center*



Figure 2 Tumwater Historical Park

Streams in Thurston County Washington

<https://www.topozone.com/washington/thurston-wa/stream/>

Place	Location
Allen Creek	Maytown
Baumgard Creek	Vail
Beatty Creek	Littlerock
Beaver Creek	Littlerock
Bloody Run	Vail
Coffee Creek	Centralia
Darlin Creek	Littlerock
Dempsey Creek	Maytown
Deschutes River	Tumwater
Dry Creek	Rochester
Eaton Creek	Tenalquot Prairie
Edna Creek	Bald Hill
Elbow Lake Creek	Bald Hill
Ellis Creek	Tumwater
Fall Creek	Vail
Fall Creek	Lake Lawrence
Fall Creek	Littlerock
Greenfield Creek	Longbranch
Griggs Creek	Summit Lake
Hospital Creek	Lake Lawrence
Hull Creek	Lake Lawrence
Indian Creek	Tumwater
Johnson Creek	Bucoda
Johnson Creek	Bald Hill
Lackamas Creek	Bald Hill
Laramie Creek	Lake Lawrence
Leschi Slough	Nisqually
Little Deschutes River	Bald Hill
Little Nisqually River	Eatonville
Lost Valley Creek	Capitol Peak
McAllister Creek	Nisqually
McLane Creek	Tumwater
Medicine Creek	Nisqually
Mill Creek	Littlerock

<u>Mima Creek</u>	Rochester
<u>Mitchell Creek</u>	Bald Hill
<u>Monroe Creek</u>	Capitol Peak
<u>Moxlie Creek</u>	Tumwater
<u>Nisqually River</u>	Nisqually
<u>North Hanaford Creek</u>	Violet Prairie
<u>Noski Creek</u>	Littlerock
<u>Percival Creek</u>	Tumwater
<u>Perry Creek</u>	Summit Lake
<u>Pheeny Creek</u>	Lake Lawrence
<u>Pipeline Creek</u>	Lake Lawrence
<u>Powell Creek</u>	Bald Hill
<u>Prairie Creek</u>	Rochester
<u>Run Creek</u>	Lake Lawrence
<u>Salmon Creek</u>	Littlerock
<u>Salmon Creek</u>	Bucoda
<u>Scatter Creek</u>	Rochester
<u>Schneider Creek</u>	Tumwater
<u>Schneider Creek</u>	Summit Lake
<u>Sherman Creek</u>	Capitol Peak
<u>Simmons Creek</u>	Tumwater
<u>Spurgeon Creek</u>	East Olympia
<u>Stony Creek</u>	Littlerock
<u>Swift Creek</u>	Summit Lake
<u>Thompson Creek</u>	Tenalquot Prairie
<u>Thompson Creek</u>	Bucoda
<u>Thurston Creek</u>	Bald Hill
<u>Tobolton Creek</u>	Bald Hill
<u>Troller Run</u>	Vail
<u>Turvey Creek</u>	Vail
<u>Waddell Creek</u>	Littlerock
<u>Woodard Creek</u>	Lacey
<u>Woodland Creek</u>	Lacey
<u>Yelm Creek</u>	Tenalquot Prairie

For this exercise you may use any of these creeks and rivers, just pick one that is convenient for you and make a good report. This would also be a good opportunity to improve your skills with Avenza mapping, using a GPS unit, and an old fashioned compass and paper map.