

United States Department of Agriculture



Natural Resources Conservation Service
Washington Snow Survey Office
2021 East College Way, Suite 214
Mount Vernon, WA 98273-2373
360-428-7684, Ext. 141
fax 360-424-6172
web site www.wa.nrcs.usda.gov/snow

Date: December 29, 2008

To All Washington Cooperative Snow Surveyors,

Attached is the 2008-09 Snow Survey Schedule for Washington. Please review the schedule and note on your calendar the dates you will need to do the surveys. **Please review the attached schedules and information carefully as there are a number of changes from previous years.**

Things to Remember

- Record the pillow and precipitation manometer levels on the snow note sheet. The manometer tapes are in feet, tenths of feet and hundredths of feet. They are not feet and inches. Double-check your readings.
- Snow Pillow and manometer measurements are to be taken at all SNOTEL sites as indicated on the schedule with an "S".
- If the snow pillow marking stakes are covered by snow and can't be seen, **DO NOT** try to estimate where to measure. Take manometer readings only and make comments on snow survey sheet.

The time to check your equipment is before the season begins. Be sure your snow sampling kit contains all the required parts. Review the "Snow Survey Sampling Guide" (Agriculture Handbook No. 169). When sampling, make sure that the tube contains a core which is representative of the entire snow profile. **Determine the snow density after each sample.** If the density is not within 5% of the other densities, resample that point.

Please use one field note sheet for each snow course measured and another field note sheet for each SNOTEL site even if there is no snow. Please be sure and calculate totals and averages for both water content and snow depth for each course/site. Double check your figures as these are what we enter in the water supply forecast procedures.

Please do the surveys within five days prior to the first of the month. The timing for the SNOTEL snow pillow and manometer readings is not as critical as for the snow courses. SNOTEL sites can be measured up to a week prior to or after the scheduled date.

Surveyors should:

- phone snow sample data in to the Washington Snow Survey office (360-428-7684, ext. 141) or to the Idaho Data Collection Office (208) 378-5740 for Idaho reporting sites. Leave a detailed message if no one answers.
- keep a reference copy in your office.
- mail original copy of each field note sheet to the appropriate Office (unless prior agreed to keep original).

The Natural Resources Conservation Service provides leadership in a partnership effort to help people conserve, maintain, and improve our natural resources and environment.

An Equal Opportunity Provider and Employer

WASHINGTON:

USDA - NRCS

Washington Snow Survey Office
2021 E. College Way, Suite 214
Mount Vernon, WA 98273

ATTN.: Snow Survey Notes
(360) 428-7684, ext. 141
fax: (360) 424-6172

IDAHO:

USDA - NRCS

Data Collection Office
9173 W. Barnes Drive, Suite C
Boise, ID 83709-1574

ATTN.: Snow Survey Notes
(208) 378-5741
fax: (208) 378-5735

It is important that you keep a copy of the snow note in case the originals get lost in the mail or if you get a call for the information.

Good Luck on a successful snow survey season. If you have any questions, please call the appropriate Snow Survey Data Collection Office or Scott Pattee at (360) 428-7684, ext. 141.

SCOTT PATTEE
Water Supply Specialist

Attachments

cc: Larry Johnson, ETL, Spokane
Jon Lea, DCO, Portland
Phil Morrissey, DCO, Boise
Harold Crose, AC, Ephrata
Rick Knoble, AC, Olympia
Ralph Christiansen, AC, Spokane

**WASHINGTON
COOPERTIVE SNOW SURVEY
AND
WATER SUPPLY FORECASTING PROGRAM**



**WATER YEAR 2009
SNOW SURVEY MEASUREMENT SCHEDULE**

RECOMMENDED DATES FOR SCHEDULING SNOW SURVEYS FOR WATER YEAR 2009

| REPORT DATE | SUGGESTED MEASUREMENT DATES | DATA TO REACH SNOW SURVEY OFFICE ON OR BEFORE |
|-------------|--------------------------------|---|
| JANUARY 1 | December 26, 29, 30, 31 | 2 January 2009 |
| FEBRUARY 1 | January 26, 27, 28, 29, 30 | 1 February 2009 |
| MARCH 1 | February 23, 24, 25, 26, 27 | 3 March 2009 |
| MARCH 15 | March 11, 13, 13 | 15 March 2009 |
| APRIL 1 | March 25, 26, 27, 30, 31 | 1 April 2009 |
| MAY 1 | April 27, 28, 29, 30 | 2 May 2009 |
| June 1 | May 25, 26, 27, 28, 29 | 2 June 2009 |

SCHEDULE OF SNOW SURVEYS 2008-09
WESTERN WASHINGTON
page 1/5

| STATION | OBSERVER | JAN | FEB | MAR | APR | MAY | JUN |
|--------------------|--|-----|-----|-----|-----|-----|-----|
| BEAVER PASS | SEATTLE CITY LIGHT | | X | X | X | X | X |
| BEAVER PASS ST | | | S | | S | | |
| BEAVER CR. TRAIL | Ole Kjosnes | | X | X | X | X | X |
| BROWN TOP | 206-386-4544 | | X | X | X | X | X |
| DEVILS PARK | Keith Kingslien 360-305-1118 | | X | X | X | X | X |
| FREEZEOUT CR. | | | X | X | X | X | X |
| GRANITE CREEK | | | X | X | X | X | X |
| HARTS PASS SNOTEL | | | S | | S | | |
| HARTS PASS AERIAL | | | X | X | X | X | X |
| HOZOMEEN SNOTEL | | | S | | S | | |
| MEADOW CABINS | | | X | X | X | X | X |
| NEW LAKE HOZOMEEN | | | X | X | X | X | X |
| RAINY PASS SNOTEL | | | S | | S | | |
| RAINY PASS AERIAL | | | X | X | X | X | X |
| SWAMP CREEK SNTL | | | S | | S | | |
| THUNDER BASIN | | | X | | X | | |
| THUNDER BASIN ST | | | S | | S | | |
| DOCK BUTTE AM | PSP&L - BELLEVUE | A | A | A | A | A | |
| EASY PASS AM | Bob Barnes 425-462-3096 | A | A | A | A | A | |
| JASPER PASS AM | Kathy Kimbell 425-462-3856 | A | A | A | A | A | |
| MARTEN LAKE AM | | A | A | A | A | A | |
| MT. BLUM AM | | A | A | A | A | A | |
| ROCKY CREEK AM | | A | A | A | A | A | |
| SCHREIBERS AM | | A | A | A | A | A | |
| S.F. THUNDER AM | | A | A | A | A | A | |
| WATSON LAKES AM | | A | A | A | A | A | |
| NOISY GLACIER AM | | A | A | A | A | A | |
| MARTIN RIDGE SNTL | NRCS MT. VERNON | | S | | S | | |
| SCHREIBERS SC | Scott Pattee 360-428-7684 | X | X | X | X | X | |
| EASY PASS SNOTEL? | Toby Rodgers or volunteer | | S | | S | | |
| GRASS MOUNTAIN #2 | COE-Seattle | X | X | X | X | X | |
| COUGAR MTN. SNOT | Larry Schick - 206-764-6898 | | S | | | | |
| LESTER CREEK | Jon Waldrup - 208-290-8578 | X | X | X | X | X | |
| SAWMILL RIDGE | One mid-month survey will be scheduled per season as determined by COE need. | X | X | X | X | X | |
| SAWMILL RIDGE SNTL | | | S | | S | | |
| LYNN LAKE | | X | X | X | X | X | |
| TWIN CAMP | | X | X | X | X | X | |
| LYNN LAKE SNTL | | | S | | S | | |
| WEST SMAY CREEK | City Of Tacoma Doug Blanchard 253-502-8860 | | X | X | X | X | |

Legend

- X = Manual Snow Course Measurement
- S = SNOTEL Manometer and Pillow Sample
- A = Aerial Marker Snow Depth Measurement

SCHEDULE OF SNOW SURVEYS 2008-09
 WESTERN WASHINGTON
 page 2/5

| STATION | OBSERVER | JAN | FEB | MAR | APR | MAY |
|--------------------|-----------------------------|-----|------------------|-----|-----|-----|
| ALPINE MEADOWS | SEATTLE PUBLIC UTILITY | | X | X | X | |
| ALPINE MEADOWS ST | Darian Davis - 206-386-4221 | | S | S | S | |
| CITY CABIN | | | X | X | X | |
| MEADOWS PASS ST | | | S | S | S | |
| MT. GARDNER | | | X | X | X | |
| MT. GARDNER SNTL | | | S | S | S | |
| TINKHUM CREEK ST | | | S | S | S | |
| REX RIVER SNOTEL | | | S | S | S | |
| SKOOKUM CREEK ST | | | S | S | S | |
| COX VALLEY | NPS Port Angeles | | X | X | X | X |
| DEER PARK | Bill Baccus 360-565-3061 | | X | X | X | X |
| WATERHOLE SNOTEL | | | SURVEY AS NEEDED | | | |
| BUCKINGHORSE SNT | | | SURVEY AS NEEDED | | | |
| HURRICANE | | | X | X | X | X |
| GREEN LAKE SNTL | NRCS Portland | | | | | |
| BUMPING RIDGE | Jon Lea - 503-414-3267 | | | | | |
| CORRAL PASS SNTL | | | | | | |
| JUNE LAKE SNOTEL | | | | | | |
| LONE PINE SNOTEL | | | | | | |
| MORSE LAKE SNOTEL | | | | | | |
| POTATO HILL SNTL | | | | | | |
| SHEEP CANYON SNTL | (SURVEY AS NEEDED) | | | | | |
| SPENCER MEADOWS S | | | | | | |
| SPIRIT LAKE SNTL | | | | | | |
| SURPRISE LAKES ST | | | | | | |
| SWIFT CK. SNOTEL | | | | | | |
| PIGTAIL PEAK ST | | | | | | |
| WHITE PASS SNOTEL | | | | | | |
| INDIAN ROCK ST | | | | | | |
| CALAMITY ST | | | | | | |
| PARADISE SNOTEL | NPS Mt. Rainier | | S | | S | |
| | Steve Klump 360-569-2611 | | | | | |
| MT. CRAG SNOTEL | NRCS Mt. Vernon | | | | | |
| DUNGENESS SNOTEL | Scott Pattee 360-428-7684 | | | | | |
| WELLS CREEK SNTL | | | | | | |
| ELBOW LAKE SNTL | | | | | | |
| M.F. NOOKSACK SNTL | (SURVEY AS NEEDED) | | | | | |
| BURNT MTN. ST | | | | | | |
| HUCKLEBERRY ST | | | | | | |
| MOWICH SNOTEL | | | | | | |
| STEVENS PASS ST | | | | | | |
| POPE RIDGE ST | | | | | | |

Legend

X = Manual Snow Course Measurement
 S = SNOTEL Manometer and Pillow Sample

SCHEDULE OF SNOW SURVEYS 2008-09
CENTRAL WASHINGTON
page 3/5

| STATION | OBSERVER | JAN | FEB | MAR | APR | MAY |
|---------------------|----------------------------|-----|-----|-----|-----|-----|
| MUTTON CREEK #1 | Okanogan Irr. Dist.& | | X | X | X | |
| RUSTY CREEK | Okanogan NRCS | | X | X | X | |
| SALMON MEADOWS ST | Stan Janowicz 509-422-2750 | | S | | | |
| TOATS COULEE | Okanogan NRCS | | X | X | X | |
| DUNCAN RIDGE | Stan Janowicz 509-422-2750 | | X | X | X | |
| IRENE'S CAMP | Kaiza Kuiken | | X | X | X | |
| COLD CREEK STRIP | | | X | X | X | |
| BONAUPART SOUTH | | | X | X | X | |
| PETTIJOHN CREEK | | | X | X | X | |
| LOST LAKE | | | X | X | X | |
| BUTTERMILK | Methow Valley Group & | X | X | X | X | |
| LAMB BUTTE | Okanogan NRCS | X | X | X | X | |
| LOUP LOUP | Stan Janowicz 509-422-2750 | X | X | X | X | |
| MAZAMA | | X | X | X | X | |
| STARVATION MTN. | | X | X | X | X | |
| THOMPSON RIDGE | | X | X | X | X | |
| CLOUDY PASS AM | CHELAN PUD | | A | A | A | |
| LITTLE MEADOWS AM | Scott Buehn - 509-661-4828 | | A | A | A | |
| LYMAN LAKE SNOTEL | | | S | | S | |
| LYMAN LAKE SC | | | | | X | |
| LYMAN LAKE AM | | | A | A | A | |
| PARK CREEK RIDGE | | | S | | S | |
| PARK CREEK RIDGE SC | | | | | X | |
| PARK CREEK RIDGE AM | | | A | A | A | |
| MINERS RIDGE ST | | | S | | S | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| KELLER RIDGE | Colville Tribe | | X | X | X | |
| MT TOLMAN | Walt Hunner - 509-634-2428 | | X | X | X | |
| DISATEL PASS | Mark Ives 509-634-2424 | | X | X | X | |
| MOSES PEAK | (alias Moses Mtn #2) | | X | X | X | |
| MOSES MTN. #2 | (alias Moses Mtn. #1) | | X | X | X | |
| MOSES MTN. SNOTEL | | | S | | | |
| SUMMIT TRAIL | | | X | X | X | |
| METEOR | (replaces Twin Lakes) | | X | X | X | |
| GOLD MOUNTAIN | | | X | X | X | |
| BROWNS PASS | | | X | X | X | |

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SCHEDULE OF SNOW SURVEYS 2008-09
CENTRAL WASHINGTON
page 4/5

| STATION | OBSERVER | JAN | FEB | MAR | APR | MAY |
|--------------------|-----------------------------|------------------|-----|-----|-----|-----|
| BLEWETT PASS ST | NRCS-Wenatchee | SURVEY AS NEEDED | | | | |
| BLEWETT PASS #2 | Amy Hendershot 509-664-0265 | | | | | |
| GROUSE CAMP ST | Kuiza Kuiken 509-422-2750 | SURVEY AS NEEDED | | | | |
| COLOCKUM PASS | W/ Scott P | | | X | | |
| TROUGH SNOTEL | | SURVEY AS NEEDED | | | | |
| FROST MEADOWS | W/ Scott P | | | X | | |
| UPPER WHEELER ST | | SURVEY AS NEEDED | | | | |
| MISSION RIDGE | | | X | X | X | |
| CHIWAUKUM G. S. | | | X | X | X | |
| AHTANUM R. S. | NRCS Yakima | | X | X | X | |
| | Corey Bonson 509-454-5746 | | | | | |
| BUMPING LAKE NEW | Yakima BOR ext 219 | X | X | X | X | X |
| FISH LAKE SNOTEL | Quentin Kruter 509-575-5848 | | S | | S | |
| FISH LAKE SC | A December 1 survey is also | X | X | X | X | X |
| DOMMERIE FLAT | Made at all of the SC's | X | X | X | X | X |
| STAMPEDE PASS ST | | S | S | S | S | S |
| TUNNEL AVENUE | | X | X | X | X | X |
| SASSE RIDGE ST | | | S | | S | |
| OLALLIE MEADOWS ST | | | S | | S | |
| CAYUSE PASS (BI) | | | X | | X | |
| CAYUSE PASS SNTL | | | S | | S | |
| LOST HORSE SNOTEL | YAKAMA INDIAN NATION | | S | | S | |
| SATUS PASS | Rocco Clark 509-865-4946 | | X | X | X | |
| | Scott Ladd | | | | | |

Legend

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S = SNOTEL Manometer and Pillow Sample
BI = Basin Index Point

SCHEDULE OF SNOW SURVEYS 2008-09
EASTERN WASHINGTON
page 5/5

| STATION | OBSERVER | JAN | FEB | MAR | APR | MAY |
|---------------------|------------------------------|------------------|-----|-----|-----|-----|
| BAIRD #2 | Colville NRCS | | X | | X | |
| BOYER MOUNTAIN | Dave Kreft - 509-685-0937 | | X | | X | |
| BUTTE CREEK #2 (BI) | Doug Rochester | | | | X | |
| CHEWELAH #2 | | | X | | X | |
| GOAT CREEK #2 | | | X | | X | |
| STRANGER MTN (BI) | | | | | X | |
| SENTINEL BUTTE | | SURVEY AS NEEDED | | | | |
| SUMMIT G.S. #2 | | | X | | X | |
| VULCAN MTN. | | | X | | X | |
| VULCAN ROAD | | | X | | X | |
| BUNCHGRASS MDWS | | SURVEY AS NEEDED | | | | |
| | | | | | | |
| RAGGED RIDGE | Spokane County w/ | | X | X | X | X |
| THOMPSON CR. | Colville NRCS | | X | X | X | X |
| ROUND TOP MTN. | Marianne 509-477-7443 | | X | X | X | X |
| QUARTZ PEAK SNTL | | SURVEY AS NEEDED | | | | |
| | | | | | | |
| SOUTH BALDY | Kalispel Tribe w/ | | X | X | X | |
| SKOOKUM LAKES | Colville NRCS | | X | X | X | |
| | Michele Wingert 509-445-1147 | | | | | |
| | | | | | | |
| TOGO | Spokane Tribe | X | X | X | X | |
| CHAMOKANE #2 | Andy Moss 509-626-4410 | X | X | X | X | |
| | | | | | | |
| SPRUCE SPRINGS | ASOTIN COUNTY | | S | | S | |
| SOURDOUGH GULCH | BUTCH AIKEN 509-243-2088 | | S | | S | |
| | | | | | | |
| INDIAN RIDGE | FS Walla Walla | X | X | X | X | |
| MILKSHAKES SNOTEL | Steve Anderson 509-520-4515 | SURVEY AS NEEDED | | | | |
| TOUCHET #2 SNOTEL | | SURVEY AS NEEDED | | | | |

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