

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: January 8, 2010

To All Washington Cooperative Snow Surveyors,

Attached is the 2009-10 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).

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.

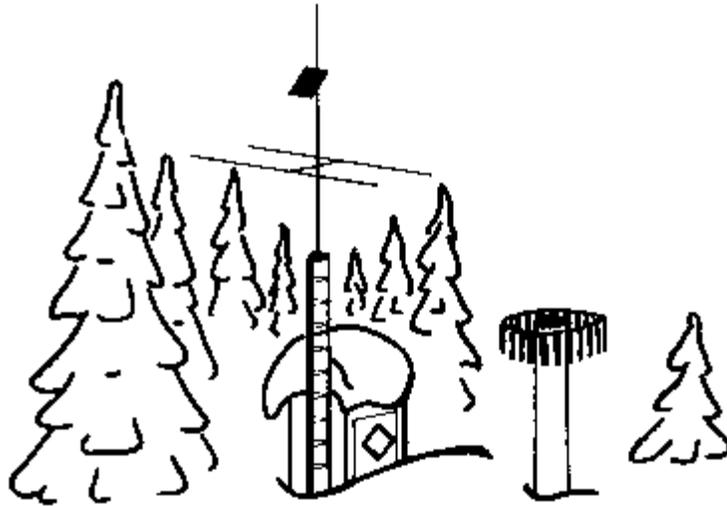
Good Luck on a successful snow survey season. If you have any questions, please call the appropriate Snow Survey Data Collection Office or Scott Pattee at (360) 428-7684, ext. 141.

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 2010
SNOW SURVEY MEASUREMENT SCHEDULE**

RECOMMENDED DATES FOR SCHEDULING SNOW SURVEYS FOR WATER YEAR 2010

REPORT DATE	SUGGESTED MEASUREMENT DATES	DATA TO REACH SNOW SURVEY OFFICE ON OR BEFORE
JANUARY 1	December 28, 29, 30, 31	4 January 2009
FEBRUARY 1	January 25, 26, 27, 28, 29	1 February 2009
MARCH 1	February 22, 23, 24, 25, 26	1 March 2009
MARCH 15	March 11, 12, 15, 16	17 March 2009
APRIL 1	March 25, 26, 29, 30, 31	1 April 2009
MAY 1	April 26, 27, 28, 29, 30	3 May 2009
June 1	May 24, 25, 26, 27, 28	1 June 2009

SCHEDULE OF SNOW SURVEYS 2009-10
WESTERN WASHINGTON
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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
BROWN TOP SNTL	Keith Kingslien 360-305-1118		S		S		
DEVILS PARK			X	X	X	X	X
FREEZEOUT CR.			X	X	X	X	X
GRANITE CREEK			X	X	X	X	X
HARTS PASS SNTL			S		S		
HARTS PASS			X	X	X	X	X
HOZOMEEN SNOTEL			S		S		
MEADOW CABINS			X	X	X	X	X
NEW LAKE			X	X	X	X	X
RAINY PASS SNTL			S		S		
RAINY PASS			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	NRCS MT. VERNON	SURVEY AS NEEDED					
SCHREIBERS SC	Scott Pattee 360-428-7684	X	X	X	X	X	
EASY PASS SNOTEL	Toby Rodgers or volunteer	SURVEY AS NEEDED					
GRASS MOUNTAIN	COE-Seattle						
COUGAR MTN. SNOT	Larry Schick - 206-764-6898						
LESTER CREEK							
SAWMILL RIDGE	One mid-month survey will be scheduled per season as determined by COE need.						
SAWMILL RIDGE SNTL							
LYNN LAKE							
TWIN CAMP							
LYNN LAKE SNTL							
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 2009-10
WESTERN WASHINGTON
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STATION	OBSERVER	JAN	FEB	MAR	APR	MAY
ALPINE MEADOWS	SEATTLE PUBLIC UTILITY		X	X	X	
ALPINE MEADOWS	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						
POTATO HILL SNTL						
SHEEP CANYON	(SURVEY AS NEEDED)					
SPENCER MEADOWS						
SPIRIT LAKE SNTL						
SURPRISE LAKES						
SWIFT CK. SNOTEL						
PIGTAIL PEAK ST						
WHITE PASS						
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 2009-10
CENTRAL WASHINGTON
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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	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	
LAMB BUTTE	Okanogan NRCS		X	X	X	
LOUP LOUP	Stan Janowicz 509-422-2750		X	X	X	
MAZAMA			X	X	X	
STARVATION MTN.			X	X	X	
THOMPSON RIDGE			X	X	X	
CLOUDY PASS AM	CHELAN PUD		A	A	A	
LITTLE MEADOWS	Scott Buehn - 509-661-4828		A	A	A	
LYMAN LAKE			S	S	S	
LYMAN LAKE SC					X	
PARK CREEK RIDGE			S	S	S	
PARK CREEK RIDGE SC					X	
PARK CREEK RIDGE AM			A	A	A	
MINERS RIDGE ST			S	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.			S			
SUMMIT TRAIL			X	X	X	
METEOR	(replaces Twin Lakes)		X	X	X	
GOLD MOUNTAIN			X	X	X	
BROWNS PASS			X	X	X	

X = Manual Snow Course Measurement
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SCHEDULE OF SNOW SURVEYS 2009-10
CENTRAL WASHINGTON
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STATION	OBSERVER	JAN	FEB	MAR	APR	MAY
BLEWETT PASS ST	NRCS-Wenatchee			X		
BLEWETT PASS #2	Amy Hendershot 509-664-0265			X		
GROUSE CAMP ST	Kuiza Kuiken 509-422-2750		X			
COLOCKUM PASS	Corey Bonsen 509-454-5743		X	X	X	
TROUGH SNOTEL			X			
FROST MEADOWS			X	X	X	
UPPER WHEELER ST				X		
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	X	X	X	X	X
FISH LAKE SNOTEL	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	YAKAMA INDIAN NATION		S		S	
SATUS PASS	Rocco Clark 509-865-4946		X	X	X	
	Scott Ladd					

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BI = Basin Index Point

SCHEDULE OF SNOW SURVEYS 2009-10
EASTERN WASHINGTON
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STATION	OBSERVER	JAN	FEB	MAR	APR	MAY
BAIRD #2	Colville NRCS		X	X	X	
BOYER MOUNTAIN	Dave Krefth - 509-685-0937		X	X	X	
BUTTE CREEK #2(BI)	Doug Rochester				X	
CHEWELAH #2			X	X	X	
GOAT CREEK #2			X	X	X	
STRANGER MTN(BI)					X	
SENTINEL BUTTE			X		X	
SUMMIT G.S. #2			X	X	X	
VULCAN MTN.			X	X	X	
VULCAN ROAD			X	X	X	
BUNCHGRASS MDWS				X		
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				X		
SOUTH BALDY	Colville NRCS		X	X	X	
SKOOKUM LAKES	509-685-0937		X	X	X	
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	
MILKSHAKES	Steve Anderson 509-520-4515			X		
TOUCHET #2				X		

Legend

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