





























*NAMS and is not sent to external clients, sensitive information regarding the station can be entered here.*

- Editable by MaintEdit (Unit).
- Select the button on the Station page called “NAMS – Update Notes”.
- Free text field.
- Does not go to clients.
- Length is 4,000 characters.

**Route** – Contains site-specific information for access to the weather station. The information should be complete enough that the location can be found by someone who has not previously visited the site. Include mileage directions from a near-by town or city, if possible.

- Editable by MaintEdit (Unit).
- Select the button on the Station paged called “NAMS – Update Route”.
- Free text field.
- Does not go to clients.
- Length is 4,000 characters.

**Order Parts** – Available only for stations under a maintenance contract with Remote Sensing Fire Weather Support Unit (RSFWSU).

- Selectable by MaintEdit (Unit).
- Select the button on the Station page called “NAMS – Place an Order”.
- When ordering for annual maintenance, select the button “Order all items due for PM”. For repairs, select “Order Item” and include a justification. Complete shipping address, email address, and remarks if needed. Agree to the Terms, review order, and submit. An email acknowledgement will be sent with the order information and when items are shipped.
- After the order is received, keep the shipping boxes, which include a shipping label and return form. Perform annual maintenance or repair, making note of the sensors that will remain on the station; use these in the post-trip report. Ship back the old sensor(s) in the shipping boxes.

**Submit a Post-Trip Report** – Document annual maintenance, emergency repairs, and add narrative information about the station.

- Selectable by MaintEdit (Unit).
- Select the button on the Station page called “NAMS – Post-Trip Update”.
- Includes the following fields:
  - **Asset number** - For stations under contract with RSFWSU, asset numbers must be assigned. Select the asset number of the sensor/part that is currently installed on the station; the one that was put on there during annual







### **Input Element Information**

- Description - Describes the data element type.
- Units - Unit of measure.

### **Output Element Information**

- Description - Describes the data element type.
- Units - Unit of measure.
- Decimal Places - The number of digits after the decimal place in the output. This is hard coded in ty[?][?].
- SHEF Code - The Standard Hydrometeorological Exchange Format (SHEF) is the standard format used by the National Weather Service for encoding hydrometeorological data in a form for both visual and computer recognition. The code listed is the two-character Physical Element (PE) part of the code indicating the category and type of element. This is hard coded in ty[?][?].

### **Input Element Limits**

- Physical Limit - Set to the valid operating parameters for the sensor. A station event is logged when the data reported by the sensor is outside the valid parameters. Sensor data outside of the physical limits should not be considered accurate, and probably indicates component/system failure of some type. This is hard coded in WX Weather.
- Maximum Change per Hour - Set to the maximum rate/amount of change allowed for that sensor per hour. WX Weather logs a station event when the sensor data exceeds this value. This is hard coded in WX Weather.
- Maximum Hours Unchanged - Set to the maximum number of hours a sensor value is allowed to remain unchanged. A station event is triggered when the number of hours a sensor value remains unchanged exceeds the value set in this field. This is hard coded in WX Weather.

### **Station-specific Limits**

- Station Limit - The maximum and minimum range set by the user specific to this station. Values in this field must be within the physical limits for the given sensor. A station event is triggered/logged when the sensor value is outside the station limit. This is user defined (MaintEdit).

### **Seasonal Station-specific Limits (entered values)**

- Winter/Summer - The maximum and minimum range set by the user specific to this station. Values in this field must be within the physical limits for the given sensor. This is user defined (MaintEdit).

### **Seasonal Station-specific Limits (computed values)**

- A table is displayed of monthly values used to range check the data for a specific sensor. The table has been computed in WX Weather. The user must provide all four summer and winter maximum and minimum values on the Edit Elements screen before the monthly values can be computed and seasonal range checking is enabled. A station event is triggered/logged when the sensor value is greater than or less than the station maximum or minimum.

### **Edit Elements Page**

To Access the EDIT ELEMENTS page - On the Station page, click on “Enable Edit Mode” button then click on “Edit Elements” button.

Users with access to this page can:

- Add a new element to the list (RegionEdit)
- Edit elements currently on the list
  - RegionEdit can edit all available element properties
  - MaintEdit can edit Station-specific and Seasonal Station-specific Limits only
- Move elements to different positions on the list (RegionEdit)
- Delete elements on the list (RegionEdit)

**Station Information** - This display is prefilled with station information from WX Weather Station page; Name, State, NESDIS ID, Last Modified, Agency, Region, Unit, and Status.

**Add New Element button** - When selected, an Edit Element page opens, allowing user to add an element to the table. See instructions below for adding a new element.

**The List of Elements** - The table displays elements currently assigned to the station. It allows the user to edit/move/delete each element on the station. See instructions below for editing an element.

#### **Table Headings:**

- Element # - Position number the element occupies in the converted data table.
- Input Element - Defines the raw data received from the station. Identifies the type of measurement and the units of measure for that element.
- Output Element - Determines the formatting of the WX Weather output. Identifies the type of sensor and units of measure.
- Observation Pattern - Allows the user to select the time intervals used to capture the data within a 24 hour period (ex. every hour or once every 24hrs)
- Edit button – Clicking the Edit button opens the Edit Element page allowing the user to edit or update the selected element.

- Move button - Clicking the Up button allows the user to move an element to a new position within the element list.
- Delete button - Clicking the Delete button removes the selected element from the element list.

### **Add or Edit an Element**

To access the Edit Element page, select the “Add New Element” or “Edit” buttons. The element seasonal and station-specific range-checking values are editable with MaintEdit access. All other fields require RegionEdit access.

- Input Element - Allows the user to select the input element from a drop-down list of the available input element types. Defines the raw data received from the station, identifies the type of sensor, and the units of measure for that element.
- Output Element - Allows the user to select the output element from a drop-down list of the available output element types. (This list will be limited based on the input element selected above.)
- Observation Pattern - Allows the user to select the time intervals used to capture the data within a 24 hour period (ex. every hour or once every 24hrs)
  - Clear All - Removes check mark from selected observations.
  - Select All - Selects all observations.
- Station Specific Limits
  - Seasonal Station-specific Limits - Only used on elements that can be configured for Station-specific Seasonal Validity Checking. Allows the user to define a range of summer and winter maximum and minimum values then generates a Monthly Values table used to range check the data. User must provide all four summer and winter maximum and minimum values before the monthly values can be computed and seasonal range checking is enabled.
  - Station-specific Limits - Only used on elements that can be configured for Station-specific Validity Checking. This allows the user to define a range of maximum and minimum values.
- Buttons at bottom of screen
  - Insert Element button - When adding a new element it inserts the new element into the element list.
  - Update Element button - When editing an existing element it updates the element information in the element list.
  - Cancel button - Cancels edit operation for the selected element and returns to the Edit Elements page.

## User Roles Table

The following table illustrates at which level edit access has been given in WX Weather. For example, if the MaintEDIT shows “EDIT” in a field, users with the MaintEDIT role are allowed to edit that field. The View role is for MaintView.

The fields marked with an asterisk (\*) are required by WX Weather and/or GOES.

		View	MaintEDIT	RegionEDIT	AgencyEDIT	StatAdmin	Example Data
<b>Station Metadata</b>							
<b>General Information</b>							
*	Station Name	view	view	view	view	EDIT	HURRICANE
*	State	view	EDIT				Washington
	County	view	EDIT				Clallam
*	NESDIS ID	view	view	view	view	EDIT	3280A25A
	NWS ID (WIMS Station ID)	view	EDIT				450124
*	Installed Date	view	view	view	view	EDIT	11/28/1989
	Status (see below, also)	view	view	view	view	EDIT	Active
	Change Status to Deactive only	view	view	view	EDIT		
	Category	view	view	view	EDIT		(1) Permanent-Station is at a fixed site
	Station Purpose	view	view	EDIT			FIRE
	Maintenance Standards	view	view	EDIT			Yes
<b>Station Location</b>							
*	Latitude	view	EDIT				47:58:13.37 North
*	Longitude	view	EDIT				123:29:55.32 West
<b>Site Information</b>							
*	Elevation	view	EDIT				5262 feet
	Slope	view	EDIT				2 percent
	Aspect	view	EDIT				270 degrees
	Cover Class	view	EDIT				Subalpine
	Climate Zone	view	EDIT				Western Washington Valleys
	Site Description	view	EDIT				Station is ...

		View	MaintEDIT	RegionEDIT	AgencyEDIT	StatAdmin	Example Data
<b>Transmit Information</b>							
*	DCP	view	view	view	EDIT		Vaisala 555
*	Transmitter	view	view	view	EDIT		OMNISAT
*	Channel	view	view	view	view	EDIT	210
*	Baud Rate	view	view	view	view	EDIT	300
*	Transmit Time	view	view	view	view	EDIT	0:28:20
*	Transmit Frequency	view	view	view	view	EDIT	Every hour
*	Observation Frequency	view	view	view	view	EDIT	60
*	Transmit Window Size	view	view	view	view	EDIT	10
	Transmit Method	view	view	view	view	EDIT	SATELLITE
	Goes Satellite	view	view	view	view	EDIT	Default
	Antenna Elevation	view	view	view	view	view	34
	Antenna Azimuth	view	view	view	view	view	195
<b>Owner and Maintenance Information</b>							
	Agency	view	view	view	view	EDIT	NPS
	Region	view	view	view	view	EDIT	PACIFIC WEST
	Unit	view	view	view	view	EDIT	OLYMPIC NP
	Subunit	view	EDIT				FIRE MGMT OFFICE
*	DADDS Group	view	view	view	view	EDIT	NPS003 - National Park Service
	Field Maintenance Agency	view	view	view	EDIT		NPS
	Maintenance Contract	view	view	view	EDIT		Depot BLM
	Maintenance Paid by Agency	view	view	view	EDIT		NPS
	Fund Source	view	view	view	EDIT		National
<b>Contact and Maintenance Information</b>							
	Point of Contact Name	view	view	EDIT			TODD RANKIN
	Point of Contact Phone	view	view	EDIT			(xxx) 565-xxxx
	Point of Contact Email	view	view	EDIT			todd_rankin@xxx.xxx
	Alternate Point of Contact Name	view	view	EDIT			TODD RANKIN
	Alternate Point of Contact Phone	view	view	EDIT			(xxx) 565-xxxx
	Alternate Point of Contact Email	view	view	EDIT			todd_rankin@xxx.xxx
	Event Email Address(es)	view	view	EDIT			todd_rankin@xxx.xxx
	Last Annual Maintenance Date	view	EDIT (Post-trip page)				6/24/2011
	Last Repaired Date	view	EDIT (Post-trip page)				
	Tipping Bucket Zeroed Date	view	EDIT (Post-trip page)				6/24/2011

		View	MaintEDIT	RegionEDIT	AgencyEDIT	StatAdmin	Example Data
<b>Data Distribution</b>							
	End User View	view	view	view	EDIT		Yes
	Distribute Metadata	view	view	view	view	view	yes
	Distribute Observations	view	view	view	EDIT		ROMAN, WIMS, and WRCC
<b>Information Shared with NAMS</b>							
	Notes		EDIT				On 6/1/01 ....
	Route		EDIT				Go to....
	Narrative		EDIT (Post-trip page)				Changed out....
	Order Parts		EDIT				
	Submit Post Trip Report		EDIT				
	Request RAWs Asset Report		EDIT				
<b>System Information</b>							
	Effective Date	view	view	view	view	view	07/13/2011 20:07:57 (194) UTC
	Modified Date	view	view	view	view	view	07/13/2011 20:07:57 (194) UTC
	Modified By	view	view	view	view	view	Todd Rankin
	StationId	view	view	view	view	view	784
<b>Misc</b>							
	HexId					view	1031000
	StationArchived					view	630
	Version					view	32
	WxId					view	16977952
	Fund Source Cost Accounting				EDIT		2014 ABCDEF \$900
<b>Element Metadata</b>							
	Element #	view	view	EDIT			1
	Observation Pattern	view	view	EDIT			All Obs
	Input Element	view	view	EDIT			Rain Gage (for high amounts;..)
	Output Element	view	view	EDIT			Rain Accumulation
	Station-specific Limits	view	EDIT				
	Seasonal Station-specific Limits	view	EDIT				