

# WeatherShare Phase 4

Doug Galarus  
Western Transportation Institute  
Montana State University

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# Disclaimer

*The opinions, findings and conclusions expressed in this presentation are those of the authors and not necessarily those of the Western States Rural Transportation Consortium, the California Department of Transportation, or Montana State University.*

# Acknowledgements

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- *Caltrans DRISI*
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- *Steve Hancock*
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- *Dan Richter*

# Abstract

*Now in its fourth phase, this multi-phase research project is **aimed at combining functionality of WeatherShare, SCAN Web™ and SCAN Sentry™ into a single, open system**. In this phase, the project team has continued work on the retrieval, storage and presentation mechanisms, developed alerting and user profile mechanisms for the system, and is working with Caltrans to test and evaluate the system during the bad weather season. Caltrans currently uses the SCAN Web™ application to aggregate and present weather information from RWIS sites to maintenance and operations personnel. Other applications such as SCAN Sentry™ are used by individual districts to provide additional capabilities such as weather-based alerting. There has been a desire to combine these functionalities into a single, open system. The purpose of this project is to further develop the capabilities of WeatherShare to include those of SCAN Web™, SCAN Sentry™, and other desirable but currently unavailable functionality into WeatherShare through further development of WeatherShare – Phase 4. **In this presentation, the project team will discuss the design and development of the system.***

# WeatherShare Phases

# WeatherShare Phases

- The Phase 1 proof-of-concept WeatherShare system provided coverage of Northern California via a custom map. This approach was sufficient for proof-of-concept purposes, but a more robust approach was necessary for subsequent prototype development.
- The Phase 2 prototype system covered the entire state of California and was implemented in a more robust manner, including use of Google Maps.
- The Phase 1 and Phase 2 prototypes targeted Caltrans personnel as users, as well as other public safety entities and the general public.
- During these early phases, WeatherShare was not intended to be the official or sole repository for any of the data presented including RWIS data.

# WeatherShare Phases

- With the anticipated “end of life” of SCAN Web™ and related services (SCAN Sentry™), it was envisioned that WeatherShare would become the official repository for Caltrans RWIS data.
- The Phase 3 prototype system initiated development focused exclusively on the needs of Caltrans Maintenance and ITS personnel. Coupled with the Caltrans “Information Relay” appliance, the system was envisioned as a complete, open replacement for prior proprietary products.
- Further work needed to be done to implement user profiles and alerts. Testing needed to be done during a bad weather season. Phase 4 carries that work forward.

# Phase 4 Tasks

The project tasks for the fourth phase of this research include the following:

- *Task 1: Project Management*, to keep the Caltrans project manager and technical panel apprised of project progress;
- *Task 2: On-Going System Development*, continues development of the prototype system including implementation of **alerts** and **user profiles**;
- *Task 3: System Testing and Evaluation*, which will include measures of prototype system use, utility and performance.



# Concept, Requirements, Design and Implementation

# Prototype System Operational Concept (OpsCon)

## WeatherShare Phase 3 Prototype System Operational Concept (OpsCon)

by

Douglas Galarus

Senior Research Scientist

Program Manager : Systems Engineering, Development and Integration

and

Daniell Richter

Research Associate II

Western Transportation Institute

College of Engineering

Montana State University

A report prepared for the

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(revised October 11<sup>th</sup>, 2013)

The purpose of the System Operational Concept was to document, from the perspective of the system user and at a high level, what the system would do. The purpose was not to document how the system would accomplish this functionality.

Finalized on October 11<sup>th</sup>, 2013.

# Prototype System Operational Concept (OpsCon)

- Documented the current situation.
- Defined user classes.
- Provided nature of and justification for changes.
- Defined concepts for the proposed system.
- Defined 45 Use Case operational scenarios.
- Summarized impacts and analyzed the proposed system.

# Example Use Case

## Use Case 5: (System) Evaluates and Actuates Alerts

**Primary Actor:** The WeatherShare System

**Goal:** Evaluate currently defined alerts to determine if conditions are met. If so, actuate active alerts. Log results.

**Trigger:** Immediately following storage of new RWIS data (See Use Case 2: (System) Stores RWIS Data) and Quality Checks (See Use Case 3: (System) Performs RWIS Data Quality Checks).

**Preconditions:**

- Successful storage of new RWIS data (See Use Case 2: (System) Stores RWIS Data), and
- Successful RWIS data quality checks (See Use Case 3: (System) Performs RWIS Data Quality Checks).

**Main Success Scenario:** The WeatherShare System evaluates currently defined alerts to determine if conditions met. If so, active alerts are actuated. Historical data is logged for alerts which are actuated. Note: It remains to be determined if a log entry will be generated to correspond to alert conditions met but QC failure on a contributing condition. Note: It is currently assumed that alerts will only be generated based on RWIS data - not on National Weather Service data or data from other weather stations.

# Example Use Case

## Use Case 26: (User) Receives an Alert

**Primary Actor:** A Caltrans WeatherShare User

**Goal:** Receive an alert, actuated via an alert definition where associated conditions are satisfied.

**Trigger:** An alert is actuated – conditions associated with the alert are satisfied by current RWIS sensor readings.

**Preconditions:**

- User must have access to email or text messaging.
- User must be assigned responsibility for the affected RWIS.

**Main Success Scenario:** The user successfully receives the alert via email or text message.

# Prototype System Software Requirements Specification

The purpose of the Software Requirements Specification (SRS) was to document what the system will do. The purpose was not to document how the system would accomplish this functionality.

Finalized on March 12<sup>th</sup>, 2014.

## WeatherShare Phase 3 Prototype System Software Requirements Specification (SRS)

by

Douglas Galarus

Senior Research Scientist

Program Manager: Systems Engineering, Development and Integration

and

Daniell Richter

Research Associate II

Western Transportation Institute

College of Engineering

Montana State University

A report prepared for the

State of California, Department of Transportation  
Division of Research, Innovation and System Information

November 19, 2013

(Revised March 12, 2014)

# Prototype System Software Requirements Specification

- Provided an overall description of the system.
- Defined specific requirements, performance requirements, application requirements and enabling requirements.



# Example Requirements

## 3.5.2. Alert Evaluation and Actuation

- 3.5.2.1. Alert conditions shall be evaluated when new RWIS sensor readings are read by The System.
- 3.5.2.2. Alerts shall be actuated when their defining conditions are satisfied.
- 3.5.2.3. Alerts shall be considered expired if the valid duration has passed since the alert was last actuated.
- 3.5.2.4. Alerts shall be considered extended if the alert is already actuated and new RWIS sensor readings satisfy their defining conditions.
- 3.5.2.5. A cleared alert shall immediately be de-actuated, regardless of valid duration.
- 3.5.2.6. The System shall evaluate user-defined alerts when applicable sensor readings are updated.
- 3.5.2.7. The System shall actuate alerts for which alert conditions are satisfied.
- 3.5.2.8. The System shall log results of alert evaluation, including QC status of inputs.



# Example Requirements

## 3.5.4. Alert Notification

- 3.5.4.1. Users shall receive (actuated) alert notifications via email and/or text message.
- 3.5.4.2. Users shall be able to view alerts via a map interface
- 3.5.4.3. Users shall view currently actuated alerts via a tabular interface.
- 3.5.4.4. Users shall view historical actuated alerts via a tabular interface.
- 3.5.4.5. Alert notification via email shall include the alert name, the time at which the alert was actuated, the valid duration and expiration, and the RWIS sensor readings and conditions for the last actuation of the alert.
- 3.5.4.6. Alert notification via text message shall include the alert name, the time at which the alert was actuated, and the valid duration and expiration.
- 3.5.4.7. Alert notification emails shall include a link to a web page allowing the individual user to unsubscribe or otherwise change their subscription options for the given alert.
- 3.5.4.8. Alerts shall be either sent immediately upon actuation or on scheduled intervals (example: every 5 min, 10 min, 15 min, 30 min, 60 min) depending on user preferences specified in the subscription, in user preference defaults, or by way of system default values.

# Prototype System Design

## WeatherShare Phase 3 Prototype System Design

by

Douglas Galarus

Senior Research Scientist

Program Manager: Systems Engineering, Development and Integration

and

Daniell Richter

Research Associate II

Western Transportation Institute

College of Engineering

Montana State University

A report prepared for the

State of California, Department of Transportation  
Division of Research, Innovation and System Information

October 3, 2014

(revised December 23<sup>rd</sup>, 2015)

The purpose of the Prototype System Design was to document how the system would accomplish the functionality described in the Software Requirements Specification (SRS).

Finalized on December 23<sup>rd</sup>, 2015.

# Prototype System Design

- Defined data structures.
- Defined processes.
- (Partially) Defined interfaces.

# Example Data Structures (RWIS Data)

Information-Relay-RWIS
-index
-recordDate
-recordTime
-district
-locationName
-nearByPlace
-longitude
-latitude
-elevation
-direction
-county
-route
-routeSuffix
-postmilePrefix
-alignment
-milepost
-inService
-essReferenceHeight
-essPressureHeight
-essWindSensorHeight
-essAtmosphericPressure
-essAvgWindDirection
-essAvgWindSpeed
-essSpotWindDirection
-essSpotWindSpeed
-essWindSituation
-essMaxWindGustSpeed
-essMaxWindGustDir
-essNumTemperatureSensors
-essTemperatureSensorIndex
-essAirTemperature1
-essWetbulbTemp
-essDewpointTemp
-essMaxTemp
-essMinTemp
-essRelativeHumidity
-essWaterDepth
-essPrecipYesNo
-essPrecipRate
-essPrecipSituation
-essPrecipitationStartTime
-essPrecipitationEndTime
-essPrecipitationOneHour
-essPrecipitationThreeHours
-essPrecipitationSixHours
-essPrecipitationTwelveHours
-essPrecipitation24Hours
-essVisibility
-essVisibilitySituation
-numEssPavementSensors
-essPavementSensorIndex1-8
-essPavementType1-8
-essPavementSensorType1-8
-essSurfaceStatus1-8
-essSurfaceTemperature1-8
-essPavementTemperature1-8
-essSurfaceWaterDepth1-8
-essSurfaceSalinity1-8
-essSurfaceFreezePoint1-8
-essSurfaceBlackIceSignal1-8
-numEssSubSurfaceSensors
-essSubSurfaceSensorIndex1-8
-essSubSurfaceType1-8
-essSubSurfaceDepth1-8
-essSubSurfaceTemperature1-8

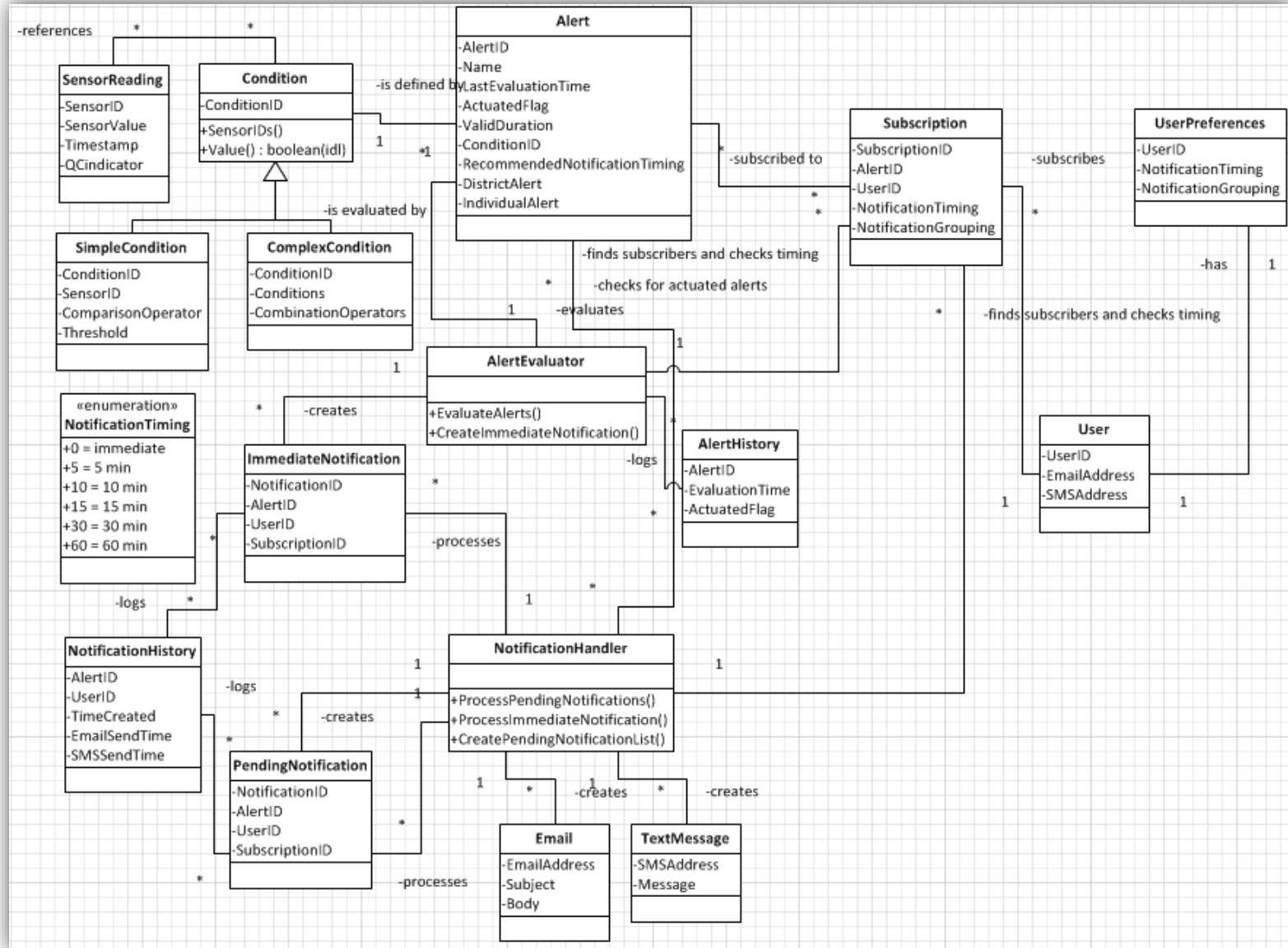
RWIS-Metadata
-index
-lastRecordDate
-lastRecordTime
-district
-locationName
-nearByPlace
-longitude
-latitude
-elevation
-direction
-county
-route
-routeSuffix
-postmilePrefix
-alignment
-milepost
-inService
-essReferenceHeight
-essPressureHeight
-essWindSensorHeight
-essNumTemperatureSensors
-numEssPavementSensors
-numEssSubSurfaceSensors

RWIS-Atmospheric-Observations-and-QC
-index
-recordDate
-recordTime
-district
-essAtmosphericPressure
-essAvgWindDirection
-essAvgWindSpeed
-essSpotWindDirection
-essSpotWindSpeed
-essWindSituation
-essMaxWindGustSpeed
-essMaxWindGustDir
-essNumTemperatureSensors
-essTemperatureSensorIndex
-essAirTemperature1
-essWetbulbTemp
-essDewpointTemp
-essMaxTemp
-essMinTemp
-essRelativeHumidity
-essWaterDepth
-essPrecipYesNo
-essPrecipRate
-essPrecipSituation
-essPrecipitationStartTime
-essPrecipitationEndTime
-essPrecipitationOneHour
-essPrecipitationThreeHours
-essPrecipitationSixHours
-essPrecipitationTwelveHours
-essPrecipitation24Hours
-essVisibility
-essVisibilitySituation
-QC VARIABLES

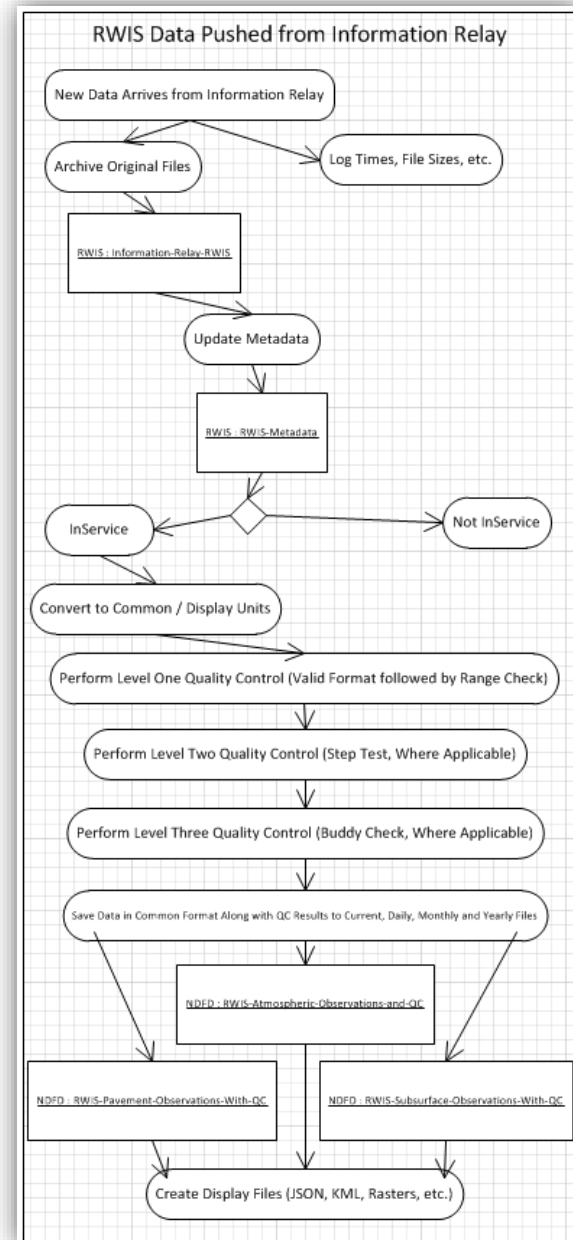
RWIS-Pavement-Observations-With-QC
-index
-recordDate
-recordTime
-district
-numEssPavementSensors
-essPavementSensorIndex1-8
-essPavementType1-8
-essPavementSensorType1-8
-essSurfaceStatus1-8
-essSurfaceTemperature1-8
-essPavementTemperature1-8
-essSurfaceWaterDepth1-8
-essSurfaceSalinity1-8
-essSurfaceFreezePoint1-8
-essSurfaceBlackIceSignal1-8
-QC VARIABLES

RWIS-Subsurface-Observations-With-QC
-index
-recordDate
-recordTime
-district
-numEssSubSurfaceSensors
-essSubSurfaceSensorIndex1-8
-essSubSurfaceType1-8
-essSubSurfaceDepth1-8
-essSubSurfaceTemperature1-8
-QC VARIABLES

# Example Data Structures (Alerts and Notification)

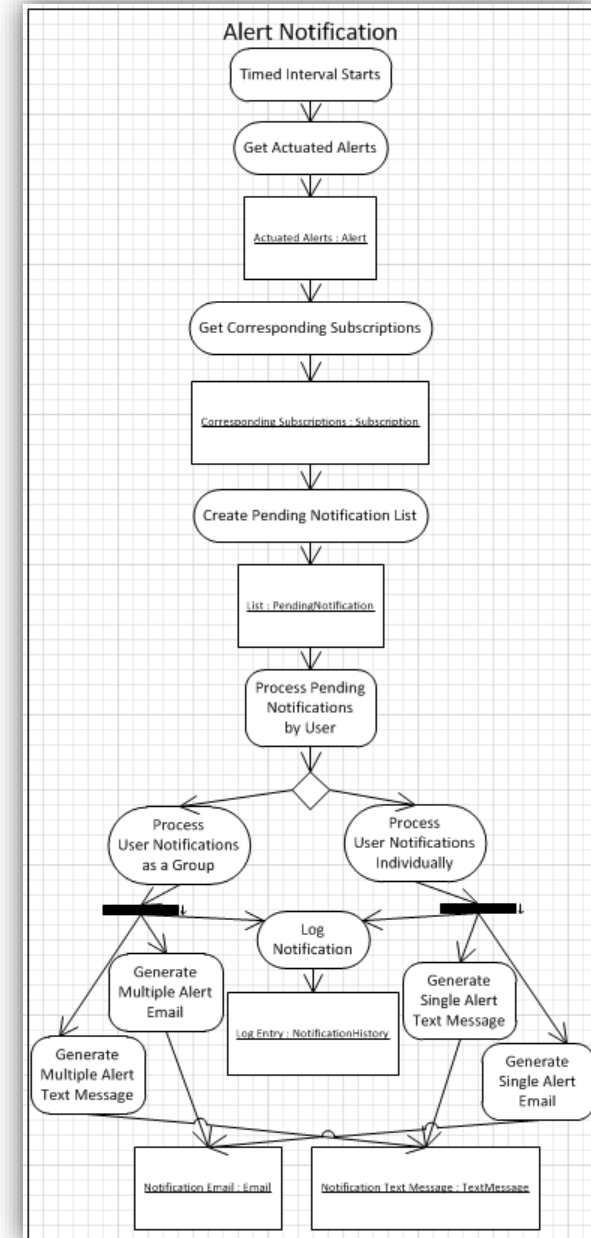
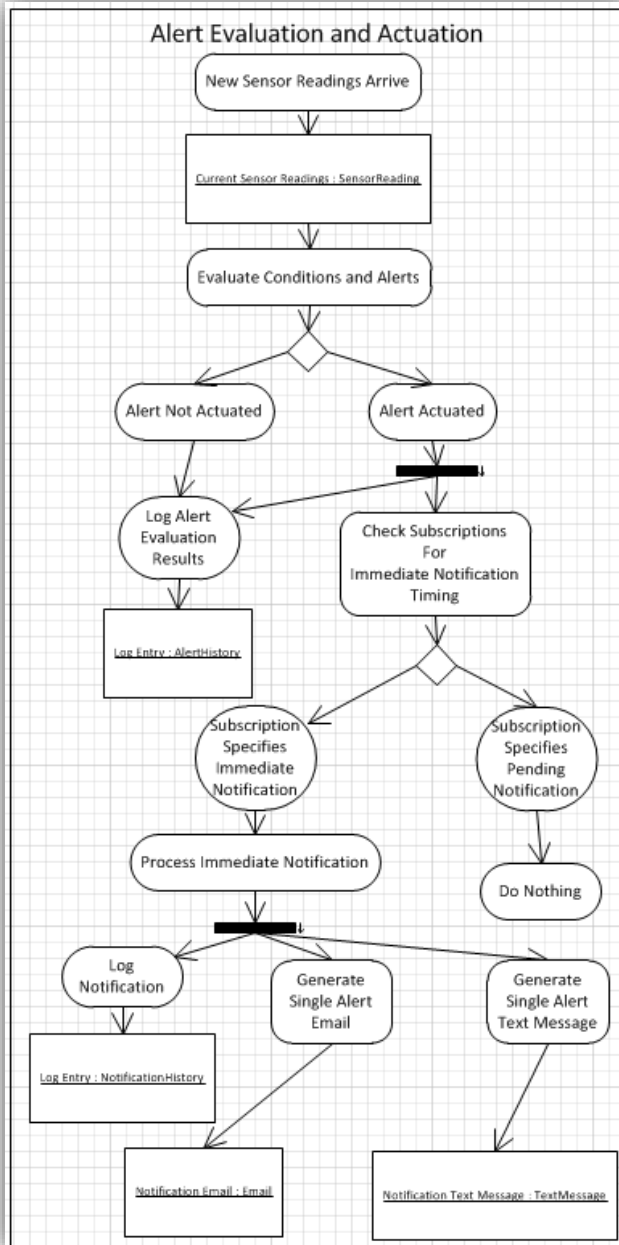


# Example Process (RWIS Data Pushed from Information Relay and Received by WeatherShare)

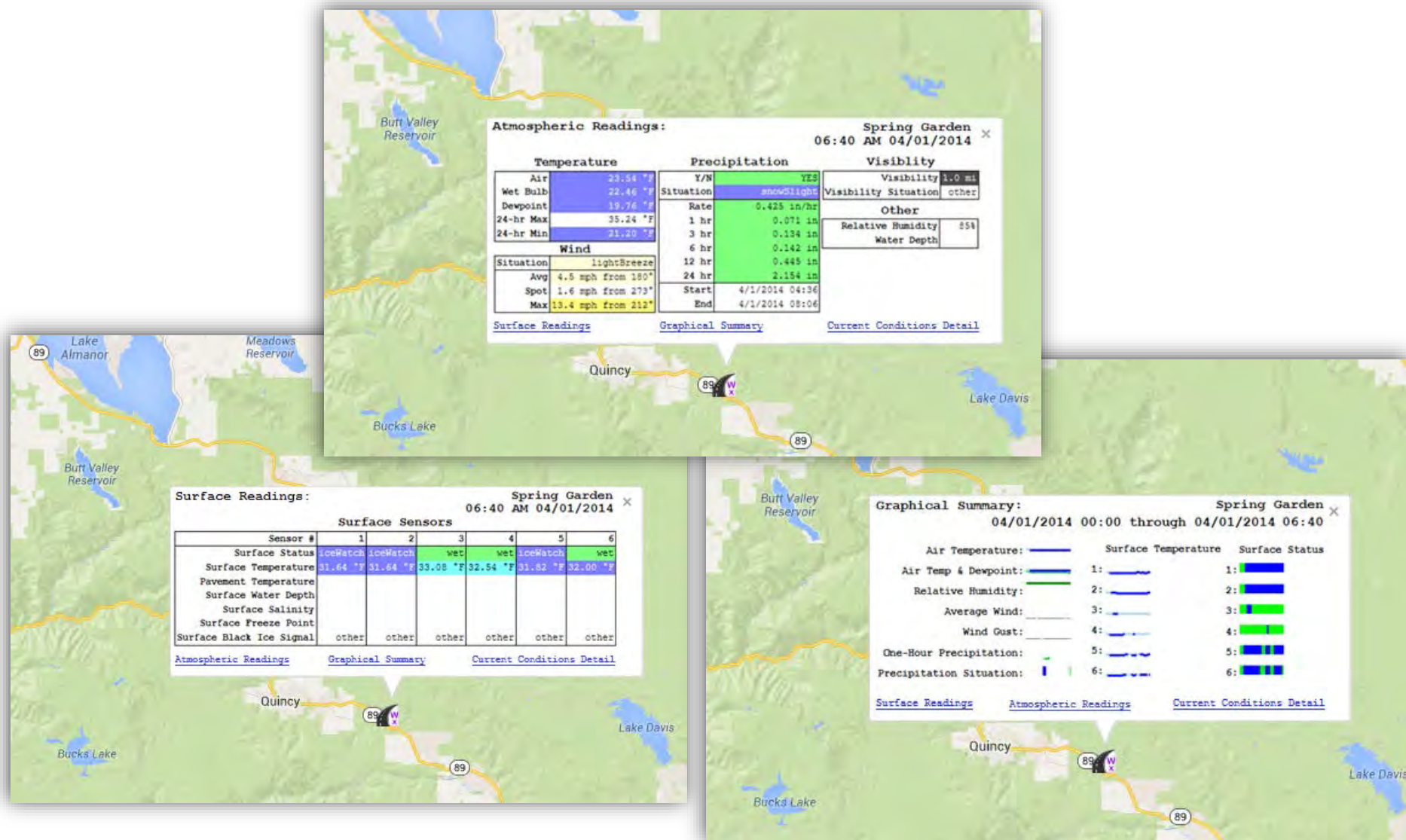




# Example Processes (Alert Evaluation and Actuation, Alert Notification)

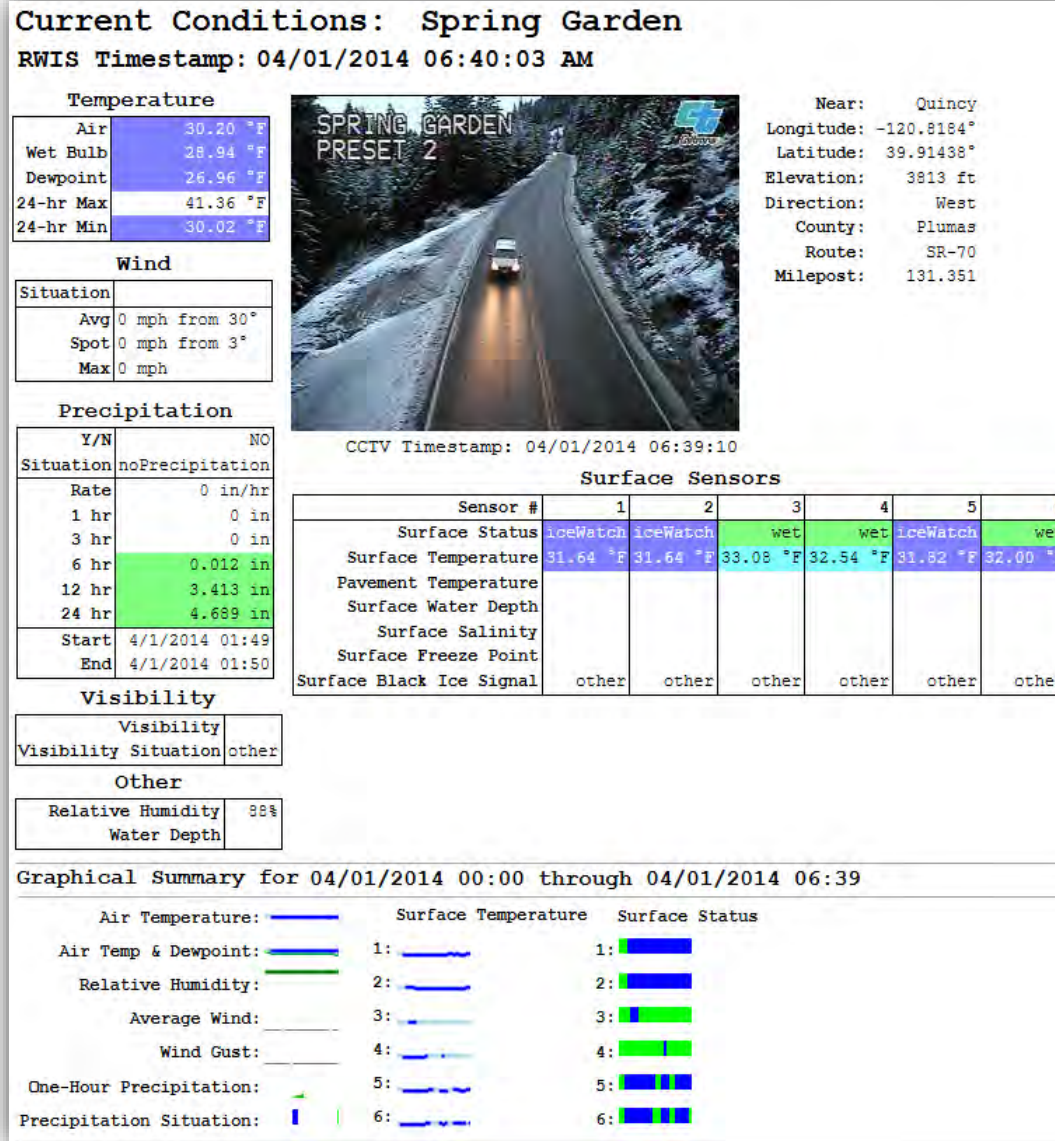


# Example Interface / Screens (Map InfoWindows)





# Example Interface / Screens (Station Summary)



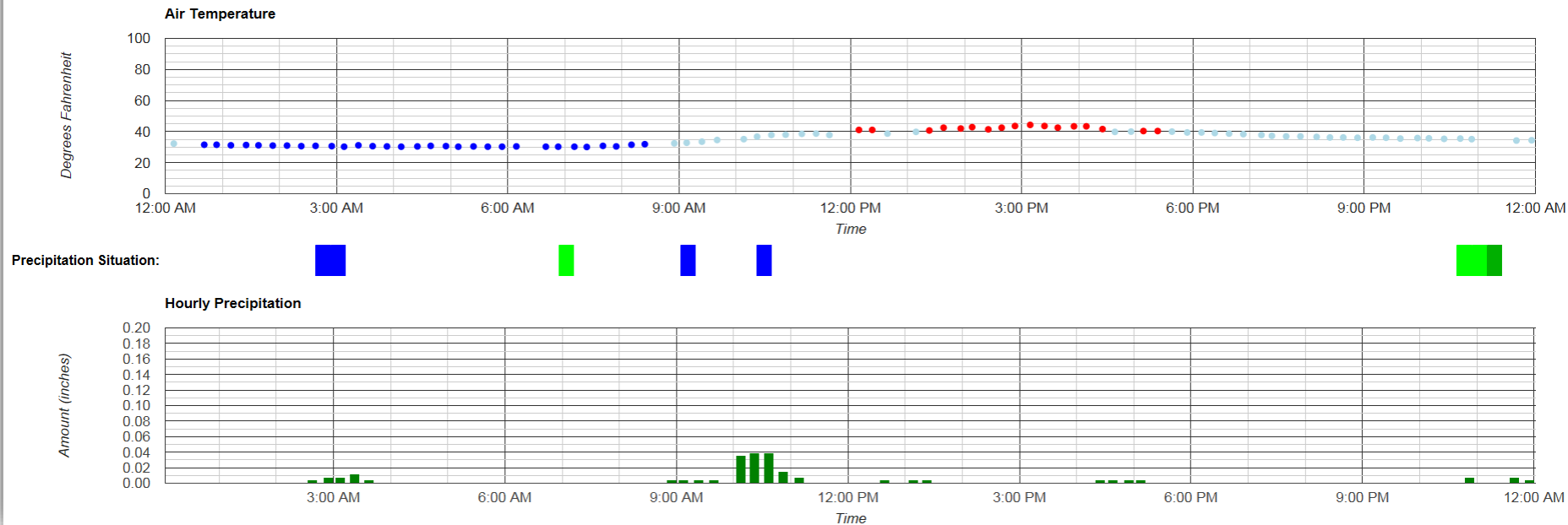
## Spring Garden One-Day Atmospheric Data for 4/1/2014

[illegible]

Timezone	Temperature				Relative Humidity %	Atmospheric Pressure	Wind				Relative Humidity %	Rate	Situation	Precipitation												Situation																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
	Date	Time	Air	Sea			24-hr	24-hr	Avg	Spd				Spd	Max	Max	Start	End	1st	2nd	3rd	4th	5th	6th	7th		8th	9th	10th	11th	12th	13th	14th	15th	16th	17th	18th	19th	20th	21st	22nd	23rd	24th	25th	26th	27th	28th	29th	30th	31st	32nd	33rd	34th	35th	36th	37th	38th	39th	40th	41st	42nd	43rd	44th	45th	46th	47th	48th	49th	50th	51st	52nd	53rd	54th	55th	56th	57th	58th	59th	60th	61st	62nd	63rd	64th	65th	66th	67th	68th	69th	70th	71st	72nd	73rd	74th	75th	76th	77th	78th	79th	80th	81st	82nd	83rd	84th	85th	86th	87th	88th	89th	90th	91st	92nd	93rd	94th	95th	96th	97th	98th	99th	100th	101st	102nd	103rd	104th	105th	106th	107th	108th	109th	110th	111th	112th	113th	114th	115th	116th	117th	118th	119th	120th	121st	122nd	123rd	124th	125th	126th	127th	128th	129th	130th	131st	132nd	133rd	134th	135th	136th	137th	138th	139th	140th	141st	142nd	143rd	144th	145th	146th	147th	148th	149th	150th	151st	152nd	153rd	154th	155th	156th	157th	158th	159th	160th	161st	162nd	163rd	164th	165th	166th	167th	168th	169th	170th	171st	172nd	173rd	174th	175th	176th	177th	178th	179th	180th	181st	182nd	183rd	184th	185th	186th	187th	188th	189th	190th	191st	192nd	193rd	194th	195th	196th	197th	198th	199th	200th	201st	202nd	203rd	204th	205th	206th	207th	208th	209th	210th	211st	212nd	213rd	214th	215th	216th	217th	218th	219th	220th	221st	222nd	223rd	224th	225th	226th	227th	228th	229th	230th	231st	232nd	233rd	234th	235th	236th	237th	238th	239th	240th	241st	242nd	243rd	244th	245th	246th	247th	248th	249th	250th	251st	252nd	253rd	254th	255th	256th	257th	258th	259th	260th	261st	262nd	263rd	264th	265th	266th	267th	268th	269th	270th	271st	272nd	273rd	274th	275th	276th	277th	278th	279th	280th	281st	282nd	283rd	284th	285th	286th	287th	288th	289th	290th	291st	292nd	293rd	294th	295th	296th	297th	298th	299th	300th	301st	302nd	303rd	304th	305th	306th	307th	308th	309th	310th	311st	312nd	313rd	314th	315th	316th	317th	318th	319th	320th	321st	322nd	323rd	324th	325th	326th	327th	328th	329th	330th	331st	332nd	333rd	334th	335th	336th	337th	338th	339th	340th	341st	342nd	343rd	344th	345th	346th	347th	348th	349th	350th	351st	352nd	353rd	354th	355th	356th	357th	358th	359th	360th	361st	362nd	363rd	364th	365th	366th	367th	368th	369th	370th	371st	372nd	373rd	374th	375th	376th	377th	378th	379th	380th	381st	382nd	383rd	384th	385th	386th	387th	388th	389th	390th	391st	392nd	393rd	394th	395th	396th	397th	398th	399th	400th	401st	402nd	403rd	404th	405th	406th	407th	408th	409th	410th	411st	412nd	413rd	414th	415th	416th	417th	418th	419th	420th	421st	422nd	423rd	424th	425th	426th	427th	428th	429th	430th	431st	432nd	433rd	434th	435th	436th	437th	438th	439th	440th	441st	442nd	443rd	444th	445th	446th	447th	448th	449th	450th	451st	452nd	453rd	454th	455th	456th	457th	458th	459th	460th	461st	462nd	463rd	464th	465th	466th	467th	468th	469th	470th	471st	472nd	473rd	474th	475th	476th	477th	478th	479th	480th	481st	482nd	483rd	484th	485th	486th	487th	488th	489th	490th	491st	492nd	493rd	494th	495th	496th	497th	498th	499th	500th	501st	502nd	503rd	504th	505th	506th	507th	508th	509th	510th	511st	512nd	513rd	514th	515th	516th	517th	518th	519th	520th	521st	522nd	523rd	524th	525th	526th	527th	528th	529th	530th	531st	532nd	533rd	534th	535th	536th	537th	538th	539th	540th	541st	542nd	543rd	544th	545th	546th	547th	548th	549th	550th	551st	552nd	553rd	554th	555th	556th	557th	558th	559th	560th	561st	562nd	563rd	564th	565th	566th	567th	568th	569th	570th	571st	572nd	573rd	574th	575th	576th	577th	578th	579th	580th	581st	582nd	583rd	584th	585th	586th	587th	588th	589th	590th	591st	592nd	593rd	594th	595th	596th	597th	598th	599th	600th	601st	602nd	603rd	604th	605th	606th	607th	608th	609th	610th	611st	612nd	613rd	614th	615th	616th	617th	618th	619th	620th	621st	622nd	623rd	624th	625th	626th	627th	628th	629th	630th	631st	632nd	633rd	634th	635th	636th	637th	638th	639th	640th	641st	642nd	643rd	644th	645th	646th	647th	648th	649th	650th	651st	652nd	653rd	654th	655th	656th	657th	658th	659th	660th	661st	662nd	663rd	664th	665th	666th	667th	668th	669th	670th	671st	672nd	673rd	674th	675th	676th	677th	678th	679th	680th	681st	682nd	683rd	684th	685th	686th	687th	688th	689th	690th	691st	692nd	693rd	694th	695th	696th	697th	698th	699th	700th	701st	702nd	703rd	704th	705th	706th	707th	708th	709th	710th	711st	712nd	713rd	714th	715th	716th	717th	718th	719th	720th	721st	722nd	723rd	724th	725th	726th	727th	728th	729th	730th	731st	732nd	733rd	734th	735th	736th	737th	738th	739th	740th	741st	742nd	743rd	744th	745th	746th	747th	748th	749th	750th	751st	752nd	753rd	754th	755th	756th	757th	758th	759th	760th	761st	762nd	763rd	764th	765th	766th	767th	768th	769th	770th	771st	772nd	773rd	774th	775th	776th	777th	778th	779th	780th	781st	782nd	783rd	784th	785th	786th	787th	788th	789th	790th	791st	792nd	793rd	794th	795th	796th	797th	798th	799th	800th	801st	802nd	803rd	804th	805th	806th	807th	808th	809th	810th	811st	812nd	813rd	814th	815th	816th	817th	818th	819th	820th	821st	822nd	823rd	824th	825th	826th	827th	828th	829th	830th	831st	832nd	833rd	834th	835th	836th	837th	838th	839th	840th	841st	842nd	843rd	844th	845th	846th	847th	848th	849th	850th	851st	852nd	853rd	854th	855th	856th	857th	858th	859th	860th	861st	862nd	863rd	864th	865th	866th	867th	868th	869th	870th	871st	872nd	873rd	874th	875th	876th	877th	878th	879th	880th	881st	882nd	883rd	884th	885th	886th	887th	888th	889th	890th	891st	892nd	893rd	894th	895th	896th	897th	898th	899th	900th	901st	902nd	903rd	904th	905th	906th	907th	908th	909th	910th	911st	912nd	913rd	914th	915th	916th	917th	918th	919th	920th	921st	922nd	923rd	924th	925th	926th	927th	928th	929th	930th	931st	932nd	933rd	934th	935th	936th	937th	938th	939th	940th	941st	942nd	943rd	944th	945th	946th	947th	948th	949th	950th	951st	952nd	953rd	954th	955th	956th	957th	958th	959th	960th	961st	962nd	963rd	964th	965th	966th	967th	968th	969th	970th	971st	972nd	973rd	974th	975th	976th	977th	978th	979th	980th	981st	982nd	983rd	984th	985th	986th	987th	988th	989th	990th	991st	992nd	993rd	994th	995th	996th	997th	998th	999th	1000th	1001st	1002nd	1003rd	1004th	1005th	1006th	1007th	1008th	1009th	1010th	1011st	1012nd	1013rd	1014th	1015th	1016th	1017th	1018th	1019th	1

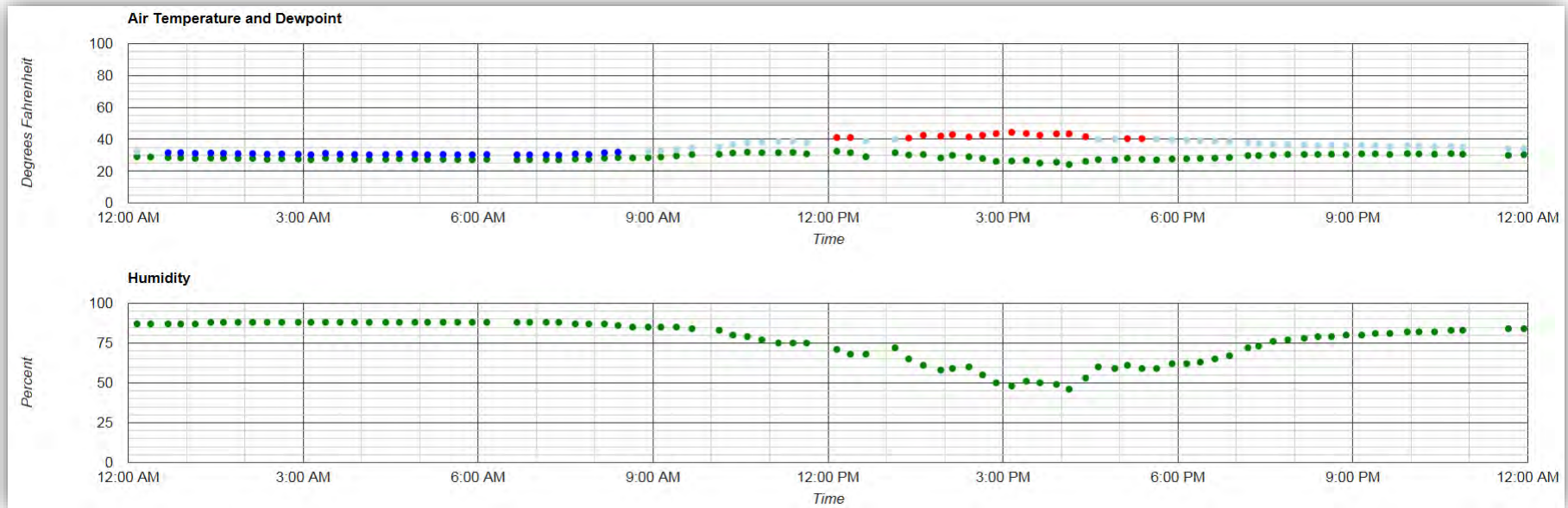
# Example Interface / Screens (Detailed Graphs)

Spring Garden: 2014-04-01

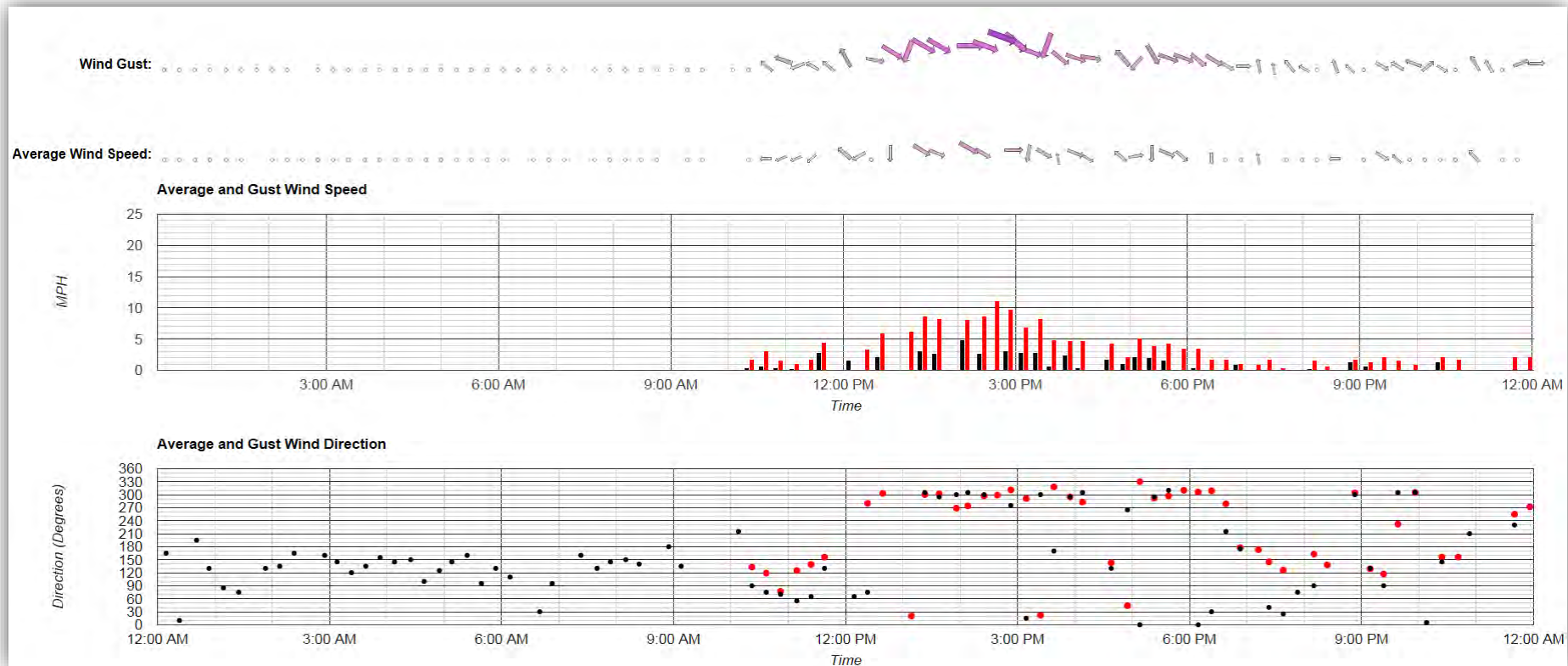




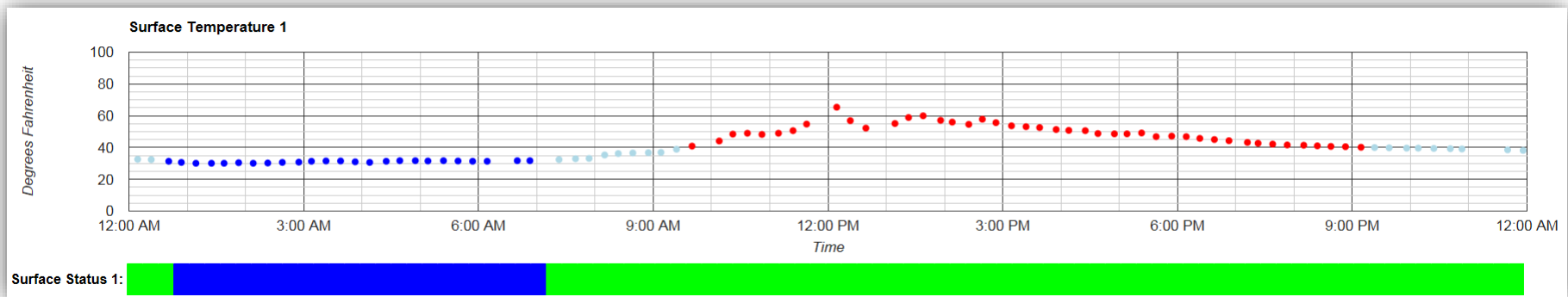
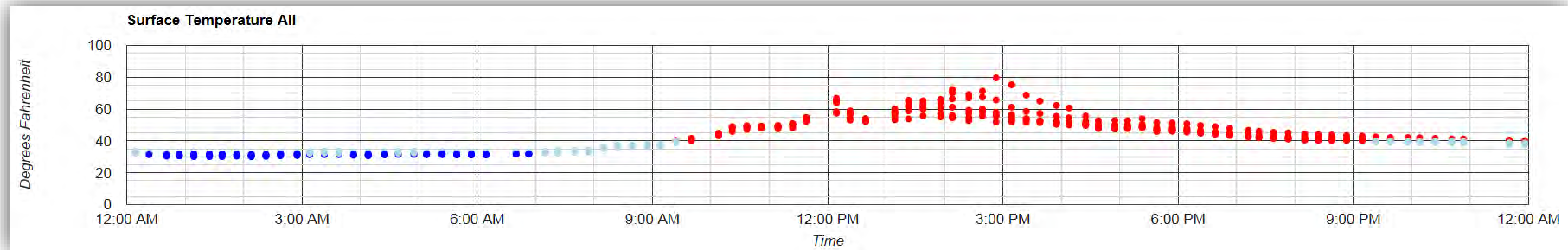
# Example Interface / Screens (Detailed Graphs)



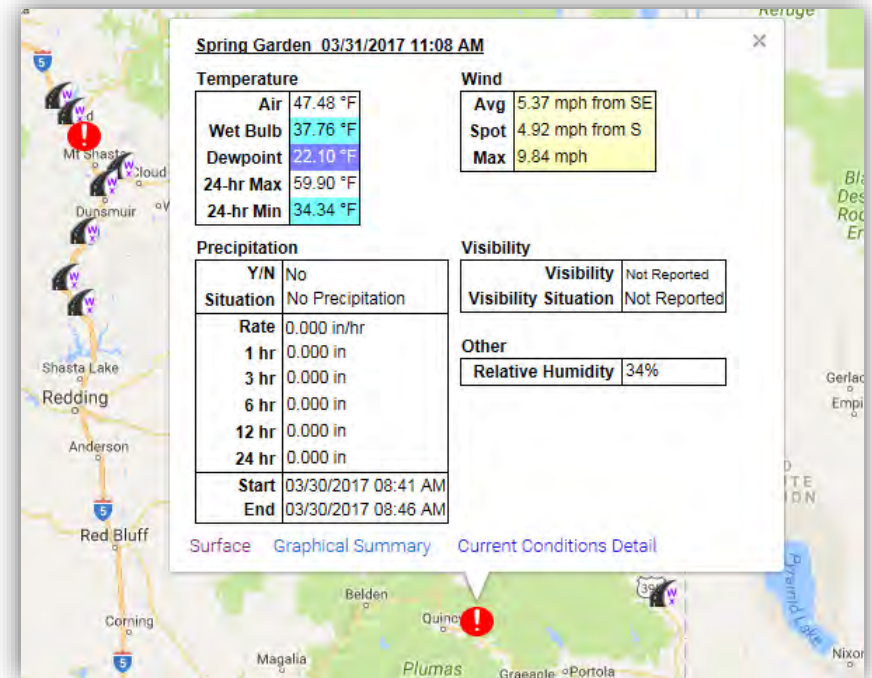
# Example Interface / Screens (Detailed Graphs)



# Example Interface / Screens (Detailed Graphs)



# Design vs. Implementation (Map InfoWindows)





# Design vs. Implementation (Station Summary)

## Current Conditions: Spring Garden

RWIS Timestamp: 04/01/2014 06:40:03 AM

### Temperature

Air	46.22 °F
Wet Bulb	46.94 °F
Dewpoint	46.98 °F
24-hr Max	41.36 °F
24-hr Min	30.02 °F

### Wind

Situation	
Avg	0 mph from 30°
Spot	0 mph from 3°
Max	0 mph

### Precipitation

I/N	NO
Situation	No Precipitation
Rate	0 in/hr
1 hr	0 in
3 hr	0 in
6 hr	0.012 in
12 hr	3.413 in
24 hr	4.689 in
Start	4/1/2014 01:49
End	4/1/2014 01:50

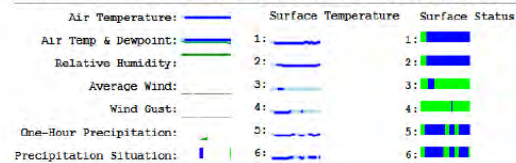
### Visibility

Visibility	
Visibility Situation	Other

### Other

Relative Humidity	88%
Water Depth	

Graphical Summary for 04/01/2014 00:00 through 04/01/2014 06:39



CCTV Timestamp: 04/01/2014 06:39:10

### Surface Sensors

Sensor #	1	2	3	4	5	6
Surface Status	IceWatch	IceWatch	Wet	Wet	IceWatch	Wet
Surface Temperature	31.64 °F	31.64 °F	33.08 °F	32.54 °F	31.52 °F	32.00 °F
Pavement Temperature						
Surface Water Depth						
Surface Salinity						
Surface Freeze Point						
Surface Black Ice Signal	Other	Other	Other	Other	Other	Other

Near: Quincy  
Longitude: -120.8184°  
Latitude: 39.91438°  
Elevation: 3813 ft  
Direction: West  
County: Plumas  
Route: SR-70  
Milepost: 131.351

## Current Conditions: Spring Garden

Timestamp: 03/31/2017 10:38 AM

[Historical Data](#)

[Detailed Graphs](#)

[Station List](#)

### Nearest CCTV (0.0 mi N)



Friday, March 31, 2017 10:53:21 PDT

### Location

Near Quincy  
Longitude -120.81840°  
Latitude 39.91438°  
Elevation 3813 ft  
Direction West  
County Plumas  
Route SR-70  
Milepost 131.35

### Temperature

Air	46.22 °F
Wet Bulb	37.04 °F
Dewpoint	23.00 °F
24-hr Max	59.90 °F
24-hr Min	34.34 °F
Avg	5.82 mph from E
Spot	3.13 mph from NE
Max	17 mph

### Precipitation

I/N	No
Situation	No Precipitation
Rate	0.000 in/hr
1 hr	0.000 in
3 hr	0.000 in
6 hr	0.000 in
12 hr	0.000 in
24 hr	0.000 in
Start	03/30/2017 08:41 AM
End	03/30/2017 08:46 AM

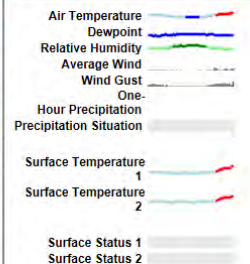
### Visibility

Visibility	Not Reported
Visibility Situation	Not Reported

### Other

Relative Humidity	38%
Atmospheric Pressure	Not Reported

### Graphical Summary for 03/31/2017 12:00 AM through 10:38 AM





# Design vs. Implementation (Station Summary)

## Current Conditions: I-80 - Donner Lake

RWIS Timestamp: 04/01/2014 08:06:16 AM

### Temperature

Air	23.94 °F
Wet Bulb	22.46 °F
Dewpoint	19.76 °F
24-hr Max	35.24 °F
24-hr Min	21.20 °F

### Wind

Situation	lightBreeze
Avg	4.9 mph from 180°
Spot	1.6 mph from 273°
Max	13.4 mph from 212°

### Precipitation

Y/N	YES
Situation	snowSlight
Rate	0.425 in/hr
1 hr	0.071 in
3 hr	0.134 in
6 hr	0.142 in
12 hr	0.445 in
24 hr	2.154 in
Start	4/1/2014 04:36
End	4/1/2014 08:06

### Visibility

Visibility	1.0 mi
Visibility Situation	other

### Other

Relative Humidity	85%
Water Depth	



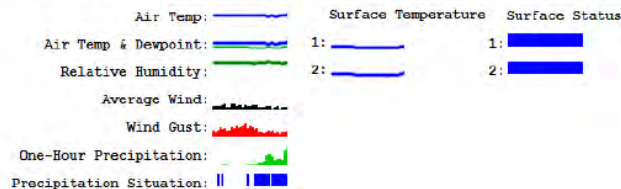
CCTV Timestamp: 04/01/2014 07:55:02 AM

### Surface Sensors

Sensor #	1	2
Surface Status	IceWatch	IceWatch
Surface Temperature	27.66 °F	28.04 °F
Pavement Temperature		
Surface Water Depth		
Surface Salinity		
Surface Freeze Point		
Surface Black Ice Signal	other	other

Near: Truckee  
Longitude: -120.28559°  
Latitude: 39.33032°  
Elevation: 6398 ft  
Direction: West  
County: Nevada  
Route: I-80  
Milepost: 131.351

Graphical Summary for 04/01/2014 00:00 through 04/01/2014 08:06



## Current Conditions: Hwy 80 at Donner Lake

Timestamp: 03/31/2017 10:53 AM

[Historical Data](#)

[Detailed Graphs](#)

[Station List](#)

### Nearest CCTV (0.15 mi SE)



Friday, March 31, 2017 11:03:37 PDT

### Location

Near	Truckee
Longitude	-120.28773°
Latitude	39.33194°
Elevation	6407 ft
Direction	
County	Nevada
Route	I-80
Milepost	180.48

### Temperature

Air	34.70 °F
Wet Bulb	30.92 °F
Dewpoint	22.10 °F
24-hr Max	36.50 °F
24-hr Min	26.24 °F
Avg	
Spot	
Max	

### Precipitation

Y/N	No
Situation	No Precipitation
Rate	0.000 in/hr
1 hr	0.000 in
3 hr	0.000 in
6 hr	0.000 in
12 hr	0.000 in
24 hr	0.736 in
Start	03/30/2017 09:53 PM
End	03/30/2017 09:55 PM

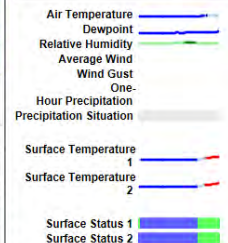
### Visibility

Visibility	1.680 mi
Visibility Situation	Other

### Other

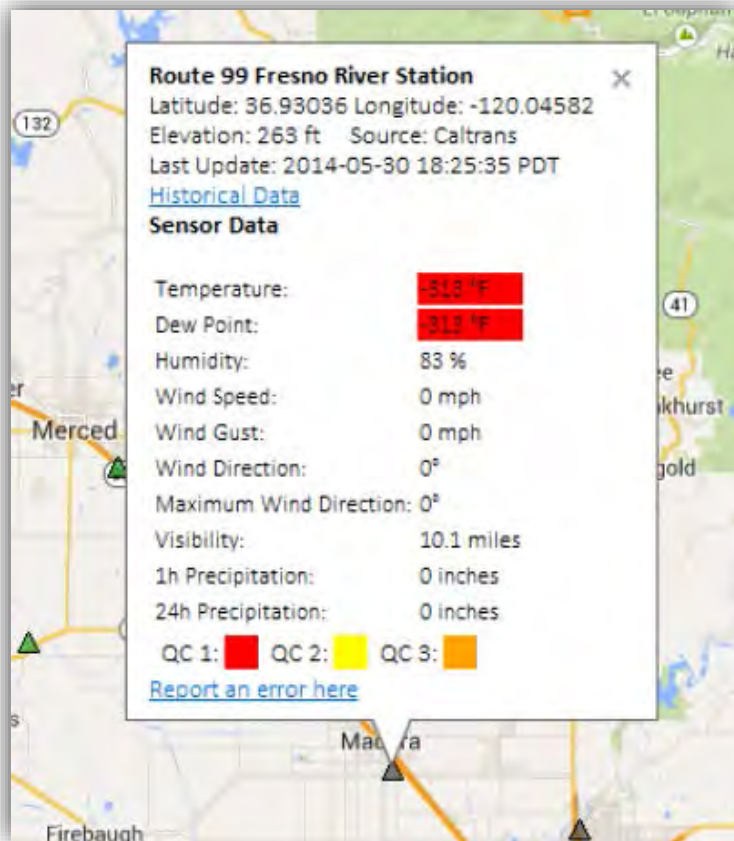
Relative Humidity	57%
Atmospheric Pressure	23.7 inHg

### Graphical Summary for 03/31/2017 12:00 AM through 10:53 AM



# QC Not Implemented

(Range checks were implemented but are not displayed.)



**Weather Station Problem Report Form**

Classification: Wrong sensor data ▼

Email address:

Description of the problem:

295 characters remaining

[Return back to sensor display](#)

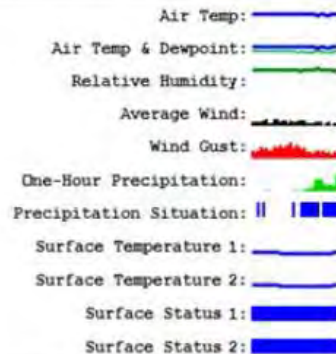
# Field Element Groups Not Implemented

## Field Element Group

I-80 - Donner Lake



CCTV Timestamp: 04/01/2014 07:55:02 AM

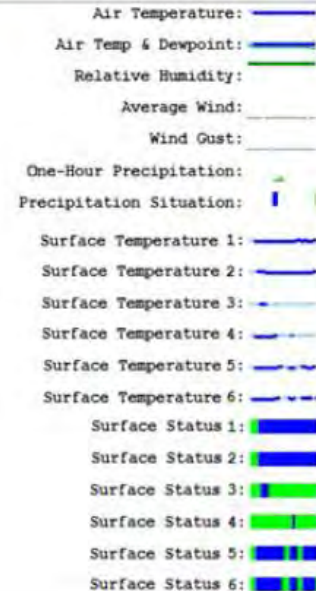


Graphical Summary for  
04/01/2014 00:00 - 08:06

Spring Garden



CCTV Timestamp: 04/01/2014 06:39:10

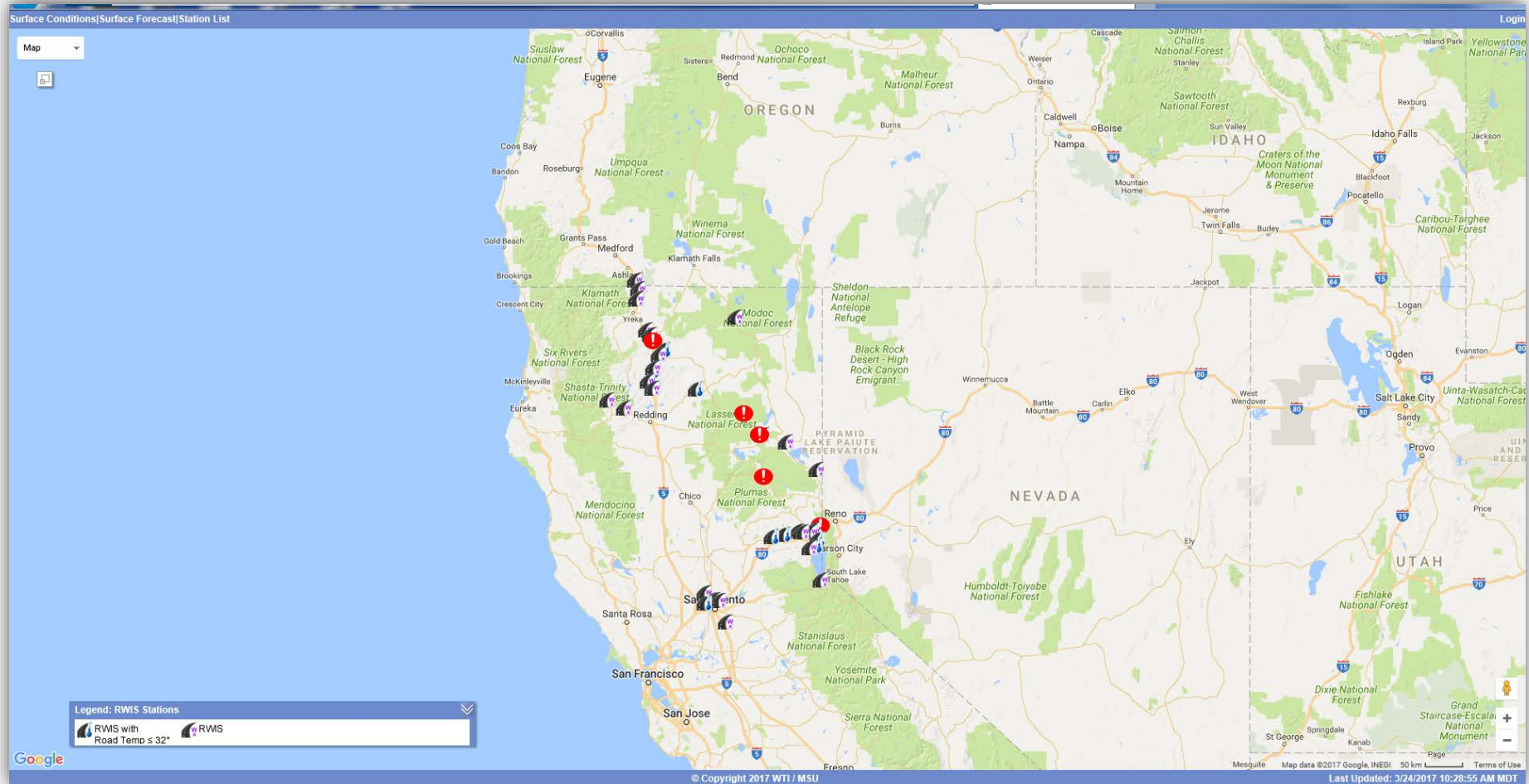


Graphical Summary for  
04/01/2014 00:00 - 06:39

# A Look at the System



# The Map



# Atmospheric Summaries for each Site

Bogard 03/30/2017 02:02 PM

## Temperature

Air	35.78 °F
Wet Bulb	30.74 °F
Dewpoint	18.50 °F
24-hr Max	57.74 °F
24-hr Min	27.68 °F

## Wind

Avg	4.03 mph from N
Spot	4.92 mph from NW
Max	12.08 mph

## Precipitation

Y/N	x
Situation	Error:Lookup
Rate	x
1 hr	0.000 in
3 hr	0.024 in
6 hr	0.106 in
12 hr	0.441 in
24 hr	0.504 in
Start	
End	

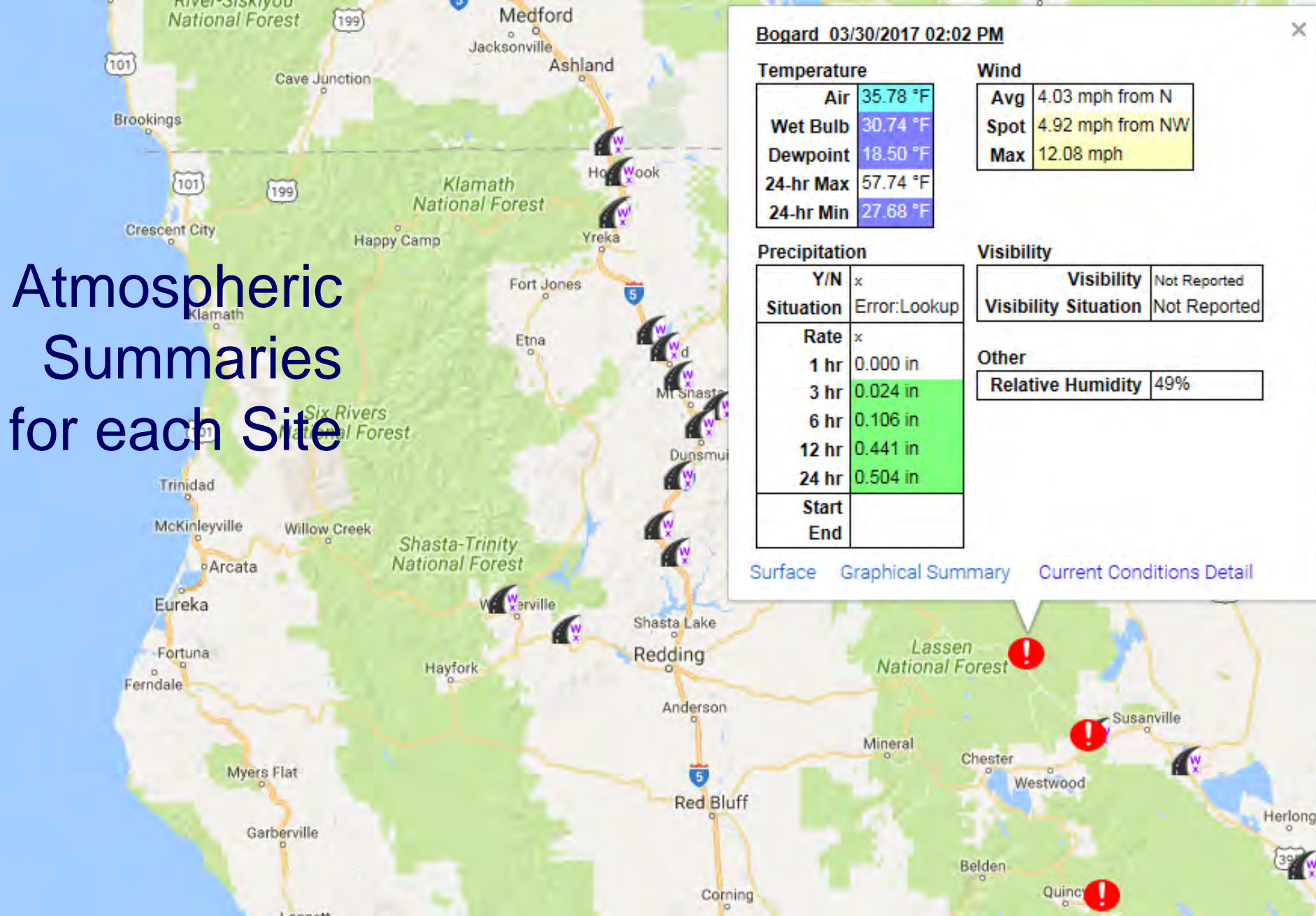
## Visibility

Visibility	Not Reported
Visibility Situation	Not Reported

## Other

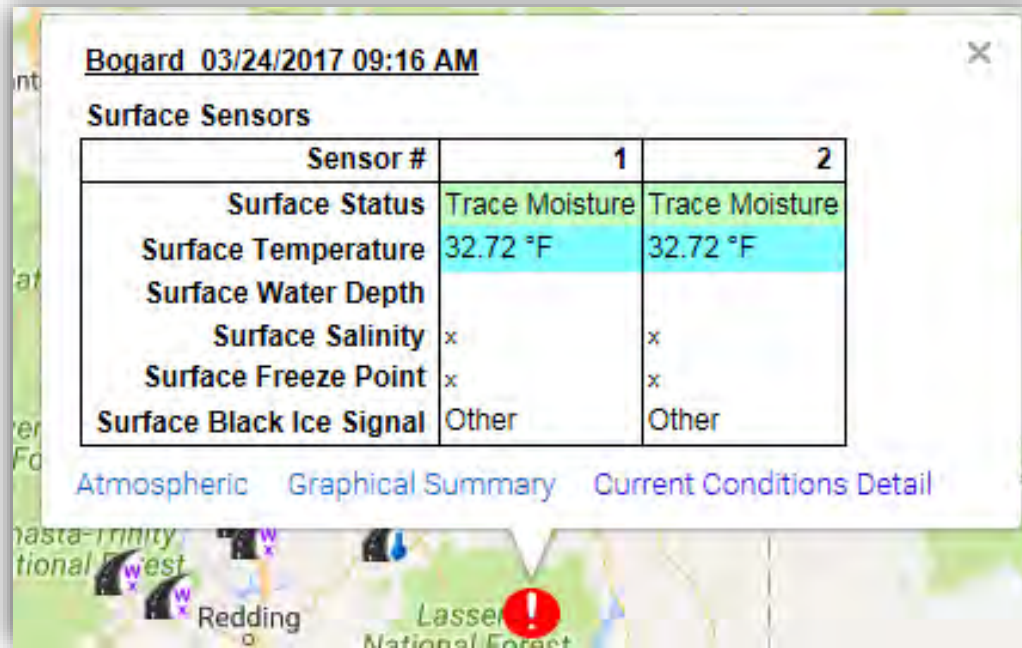
Relative Humidity	49%
-------------------	-----

[Surface](#) [Graphical Summary](#) [Current Conditions Detail](#)



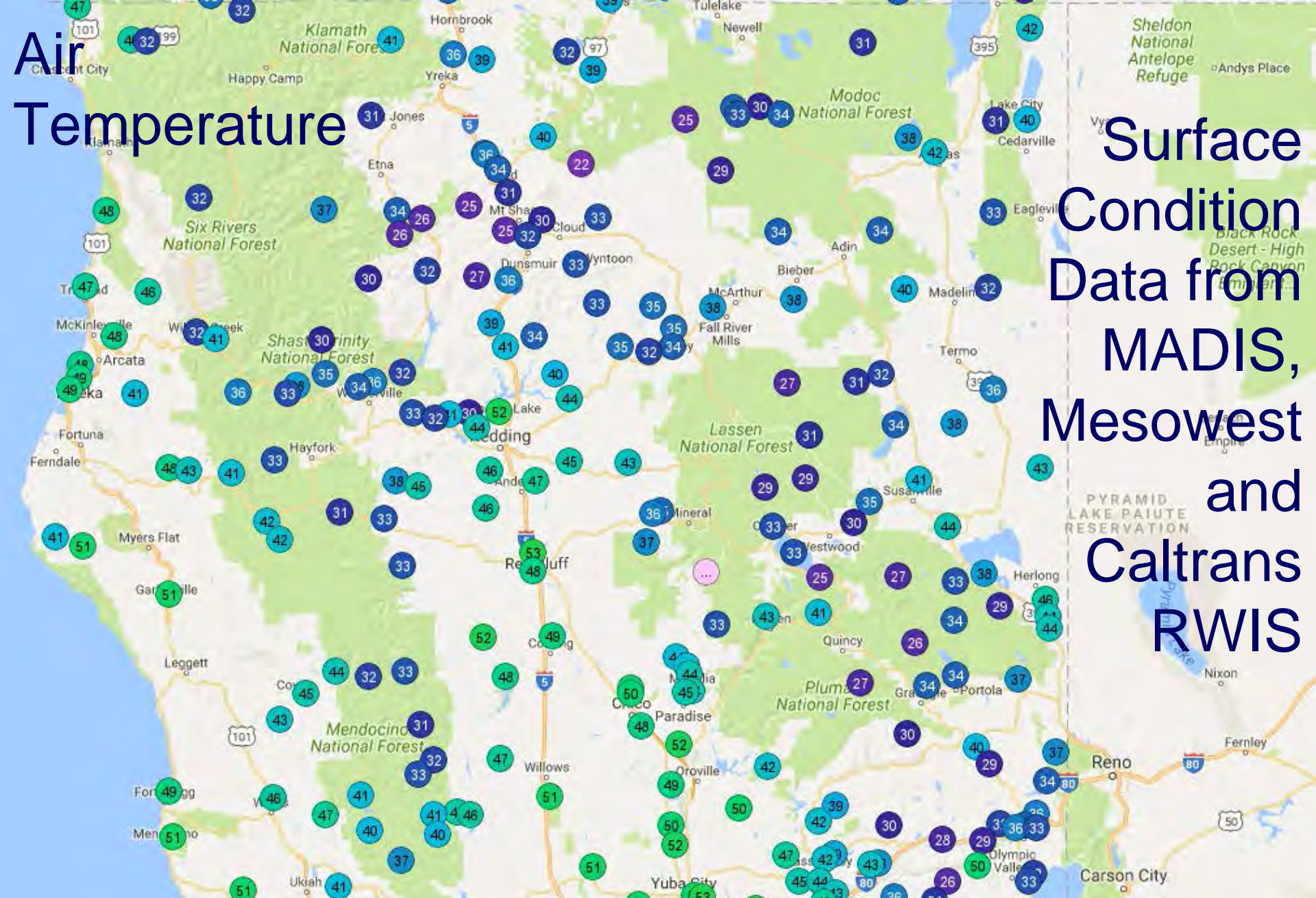


# Surface Summaries for Each Site



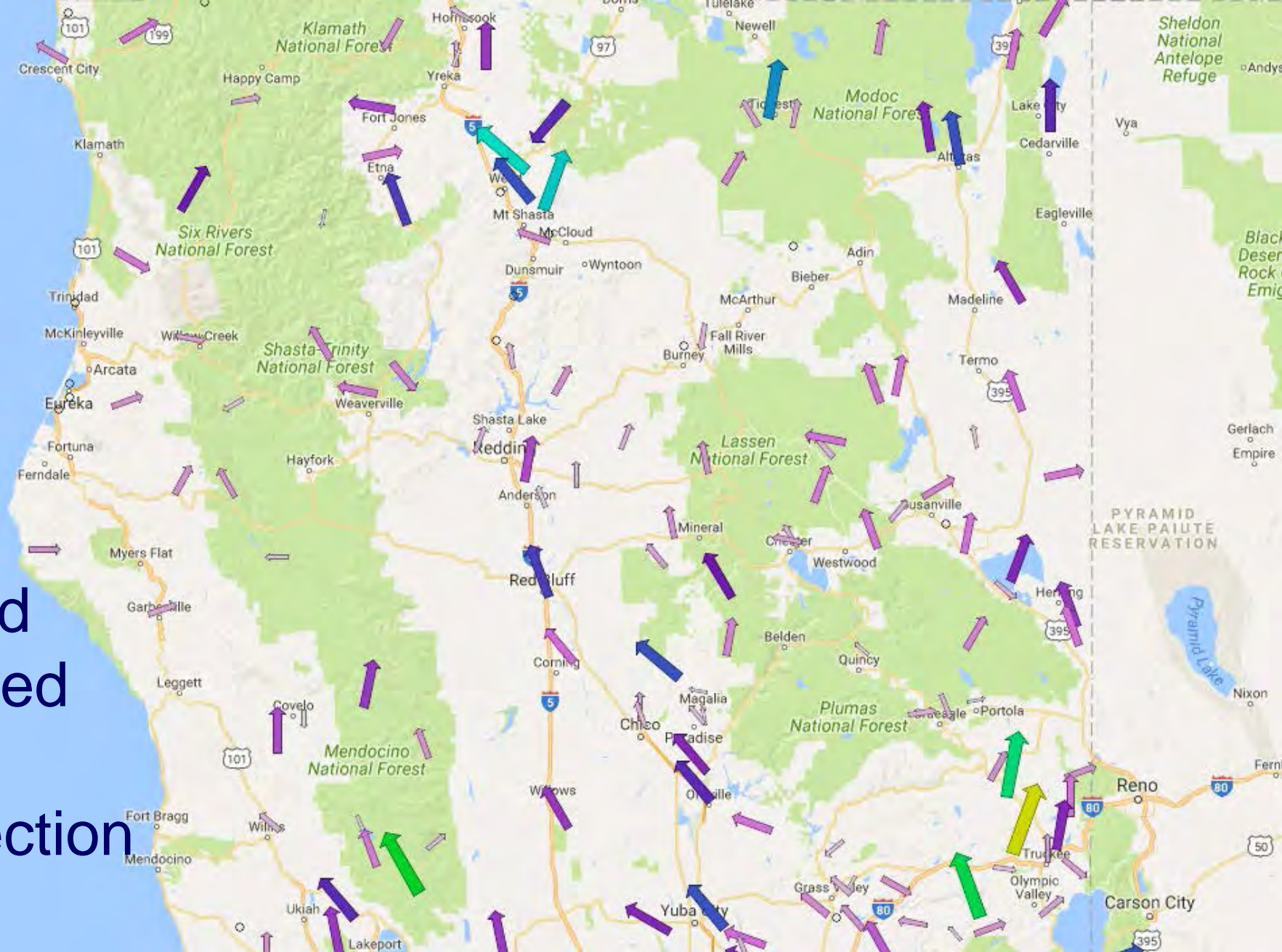
# Air Temperature

# Surface Condition Data from MADIS, Mesowest and Caltrans RWIS



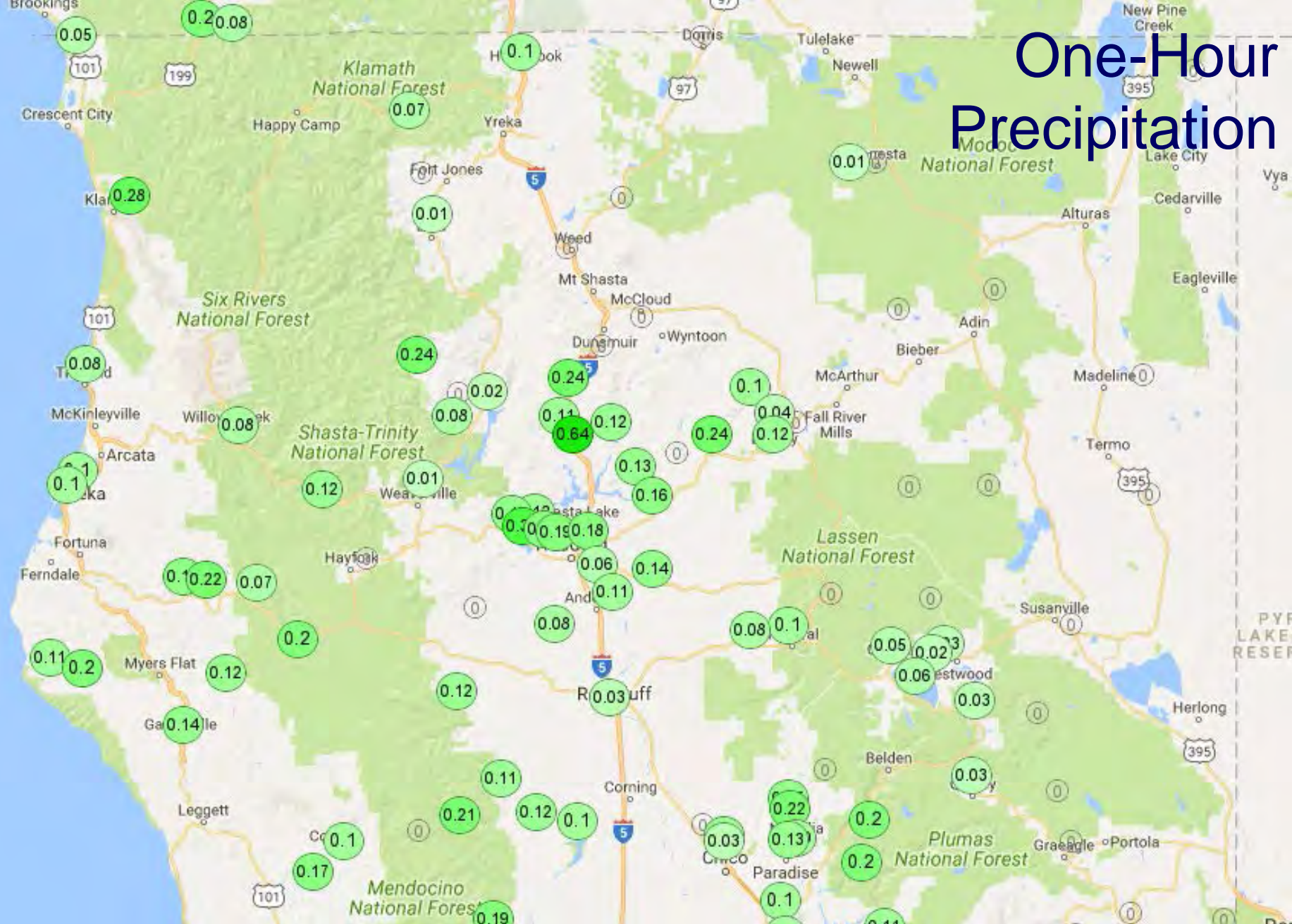


# Wind Speed and Direction



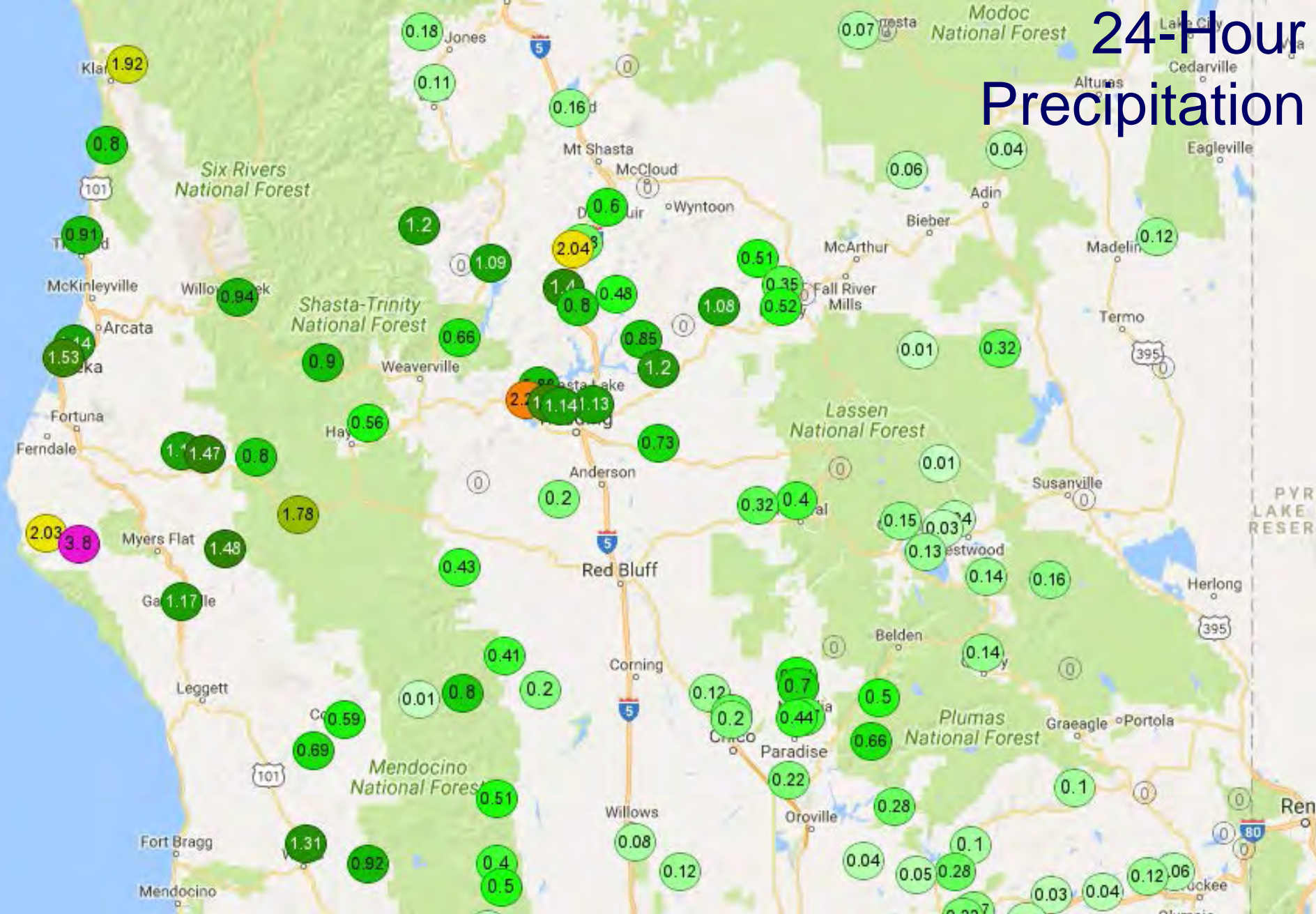


# One-Hour Precipitation

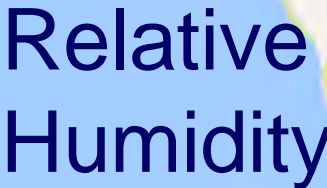




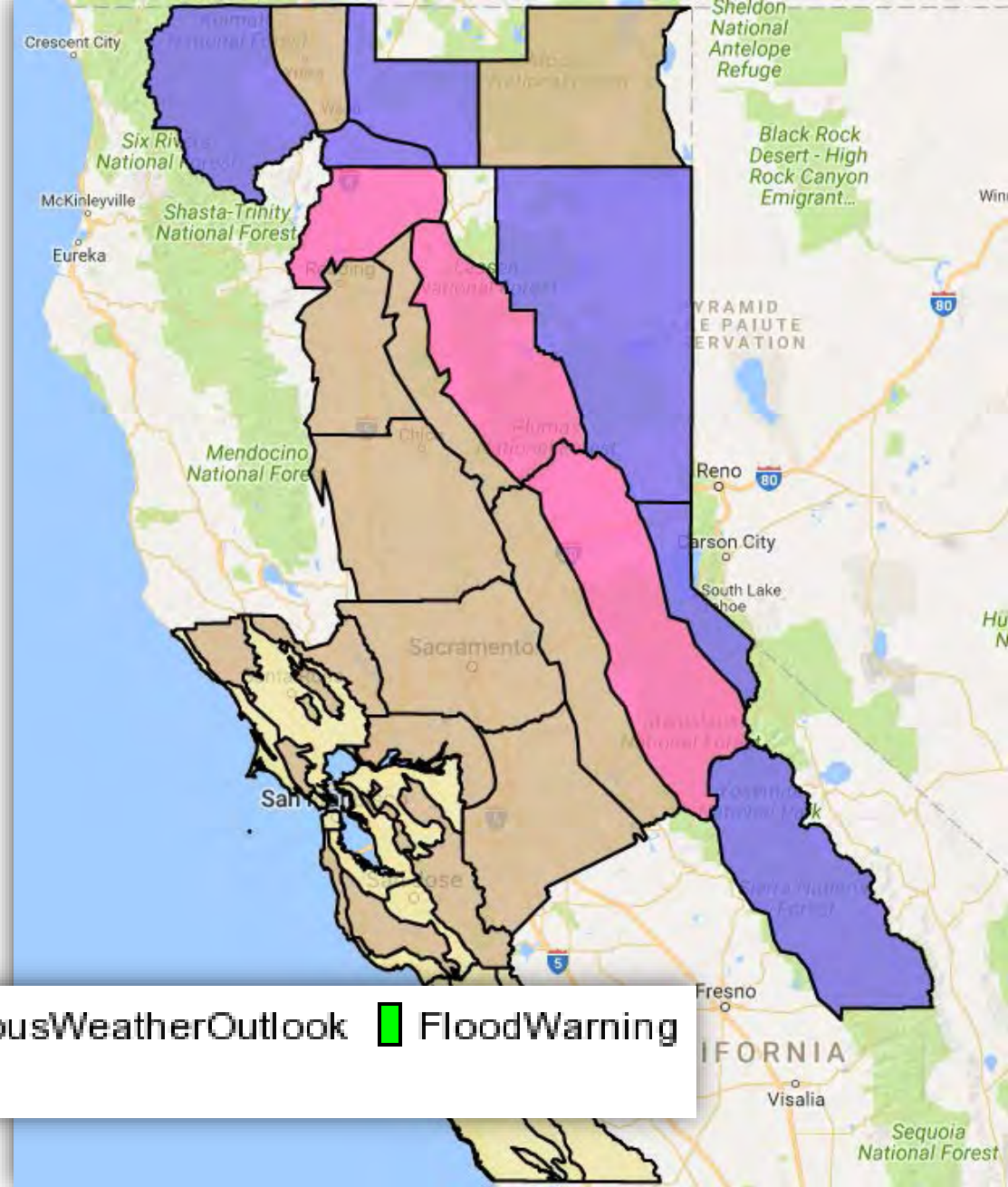
# 24-Hour







# National Weather Service Alerts





## CAZ071 Active Alerts:

- Winter Weather Advisory

### Winter Weather Advisory:

Sent: 03:03 Mar 24, 2017 PDT  
Expires: 04:00 Mar 25, 2017 PDT  
Effective: 03:03 Mar 24, 2017 PDT

Severity: Minor  
Urgency: Expected  
Certainty: Likely

Type: Alert  
Category: Met  
Status: Actual  
Scope: Public  
Sender: NWS Reno (Western Nevada)  
Source: w-nws.webmaster@noaa.gov

Note: Alert for Lassen-Eastern Plumas-Eastern Sierra Counties (California) Issued by the National Weather Service

Area Description: Lassen-Eastern Plumas-Eastern Sierra Counties

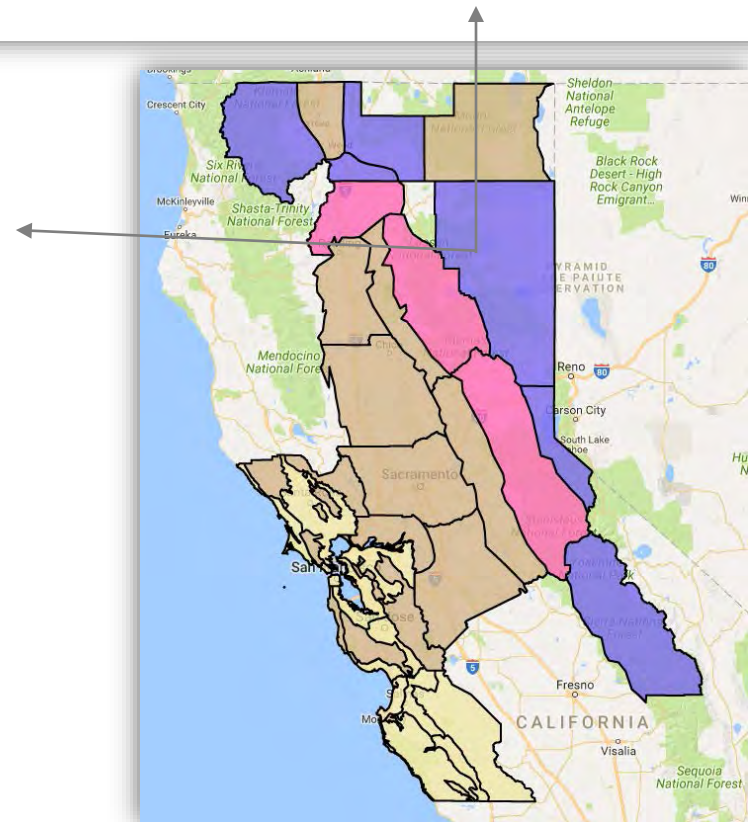
Headline: Winter Weather Advisory issued March 24 at 3:03AM PDT until March 25 at 4:00AM PDT by NWS Reno

Description: ...WINTER WEATHER ADVISORY REMAINS IN EFFECT FROM 4 PM THISAFTERNOON TO 4 AM PDT SATURDAY ABOVE 5500 FEET...\* Timing: Rain and higher elevation snow will begin this morningand continue tonight as snow levels fall.\* Snow Accumulations: 6 to 12 inches above 6500 feet with up to4 inches down to 5000 feet. Heaviest snow south and west ofSusanville.\* Snow Levels: 5500 feet today lowering to valley floors by latetontight.\* Impacts: Snow will cause hazardous driving conditions forroads near and above 5500 feet including Yuba Pass andFredonyer Summit.

Instruction: Even light snowfall causes major travel delays, especially duringperiods of high traffic volume. Be sure to allow extra time toreach your destination. Leave extra space between vehicles sinceit takes longer to stop on slick roadways.

# Winter Weather Advisory

Description: ...WINTER WEATHER ADVISORY REMAINS IN EFFECT FROM 4 PM THISAFTERNOON TO 4 AM PDT SATURDAY ABOVE 5500 FEET...\* Timing: Rain and higher elevation snow will begin this morningand continue tonight as snow levels fall.\* Snow Accumulations: 6 to 12 inches above 6500 feet with up to4 inches down to 5000 feet. Heaviest snow south and west ofSusanville.\* Snow Levels: 5500 feet today lowering to valley floors by latetontight.\* Impacts: Snow will cause hazardous driving conditions forroads near and above 5500 feet including Yuba Pass andFredonyer Summit.



## CAZ013 Active Alerts:

- Winter Storm Warning

### Winter Storm Warning:

Sent: 04:10 Mar 24, 2017 PDT  
Expires: 05:00 Mar 25, 2017 PDT  
Effective: 04:10 Mar 24, 2017 PDT

Severity: Moderate  
Urgency: Expected  
Certainty: Likely

Type: Alert  
Category: Met  
Status: Actual  
Scope: Public  
Sender: NWS Sacramento (North Central California)  
Source: w-nws.webmaster@noaa.gov

Note: Alert for Shasta Lake Area, Northern Shasta County (California) Issued by the National Weather Service

Area Description: Shasta Lake Area, Northern Shasta County

Headline: Winter Storm Warning issued March 24 at 4:10AM PDT until March 25 at 5:00AM PDT by NWS Sacramento

Description: ...Another round of snow for northern California mountains....A Pacific frontal system will move through northern California today bringing heavy snow over the mountains with snow levels down to many passes. In addition to the snowfall, gusty winds are likely at times especially during the day today. If planning travel through the Sierra Cascade range or northern mountains today through early Saturday, expect delays and chain controls. Be prepared and check the latest weather and road reports before departure....WINTER STORM WARNING REMAINS IN EFFECT UNTIL 5 AM PDT SATURDAY...\* TIMING...Snowfall continuing through Saturday morning.\* SNOW AMOUNTS...8 to 12 inches above 3500 feet with up to 18 inches highest elevations.\* MAIN IMPACT...Heavy high elevation snow.\* OTHER IMPACTS...Gusty winds up to 40 mph highest elevations causing white-out conditions at times. Interact with us via social media [www.facebook.com/nws.sacramento](http://www.facebook.com/nws.sacramento) [www.twitter.com/nwssacramento](http://www.twitter.com/nwssacramento)

Instruction: A Winter Storm Warning for heavy snow means severe winter weather conditions are expected or occurring. Significant amounts of snow are forecast that will make travel dangerous. If you must travel, keep an extra flashlight, food, and water in your vehicle in case of an emergency.

Description: ...Another round of snow for northern California mountains....A Pacific frontal system will move through northern California today bringing heavy snow over the mountains with snow levels down to many passes. In addition to the snowfall, gusty winds are likely at times especially during the day today. If planning travel through the Sierra Cascade range or northern mountains today through early Saturday, expect delays and chain controls. Be prepared and check the latest weather and road reports before departure....WINTER STORM WARNING REMAINS IN EFFECT UNTIL 5 AM PDT SATURDAY...\* TIMING...Snowfall continuing through Saturday morning.\* SNOW AMOUNTS...8 to 12 inches above 3500 feet with up to 18 inches highest elevations.\* MAIN IMPACT...Heavy high elevation snow.\* OTHER IMPACTS...Gusty winds up to 40 mph highest elevations causing white-out conditions at times. Interact with us via social media [www.facebook.com/nws.sacramento](http://www.facebook.com/nws.sacramento) [www.twitter.com/nwssacramento](http://www.twitter.com/nwssacramento)



# Winter Storm Warning



## CAZ017 Active Alerts:

- Wind Advisory

### Wind Advisory:

Sent: 04:19 Mar 24, 2017 PDT  
Expires: 19:00 Mar 24, 2017 PDT  
Effective: 04:19 Mar 24, 2017 PDT

Severity: Minor  
Urgency: Expected  
Certainty: Likely

Type: Alert  
Category: Met  
Status: Actual  
Scope: Public  
Sender: NWS Sacramento (North Central California)  
Source: w-nws.webmaster@noaa.gov

**Note:** Alert for Carquinez Strait and Delta; Central Sacramento Valley; Motherlode; Northeast Foothills, Sacramento Valley; Northern Sacramento Valley; Northern San Joaquin Valley; Southern Sacramento Valley; Western Plumas County, Lassen Park (California) Issued by the National Weather Service

**Area Description:** Carquinez Strait and Delta; Central Sacramento Valley; Motherlode; Northeast Foothills, Sacramento Valley; Northern Sacramento Valley; Northern San Joaquin Valley; Southern Sacramento Valley; Western Plumas County, Lassen Park

**Headline:** Wind Advisory issued March 24 at 4:19AM PDT until March 24 at 7:00PM PDT by NWS Sacramento

**Description:** ...WIND ADVISORY REMAINS IN EFFECT FROM 9 AM THIS MORNING TO 7 PMPDT THIS EVENING...**\* TIMING...**Winds will increase this morning and continue throughthis afternoon before declining this evening and overnight.**\* WINDS...**South winds 20 to 30 mph with gusts up to 40 mph.**\* IMPACTS...**Local downed trees and limbs, blowing debris, andlocal power outages possible.Interact with us via social media[www.facebook.com/nws.sacramento](http://www.facebook.com/nws.sacramento)[www.twitter.com/nwssacramento](http://www.twitter.com/nwssacramento)

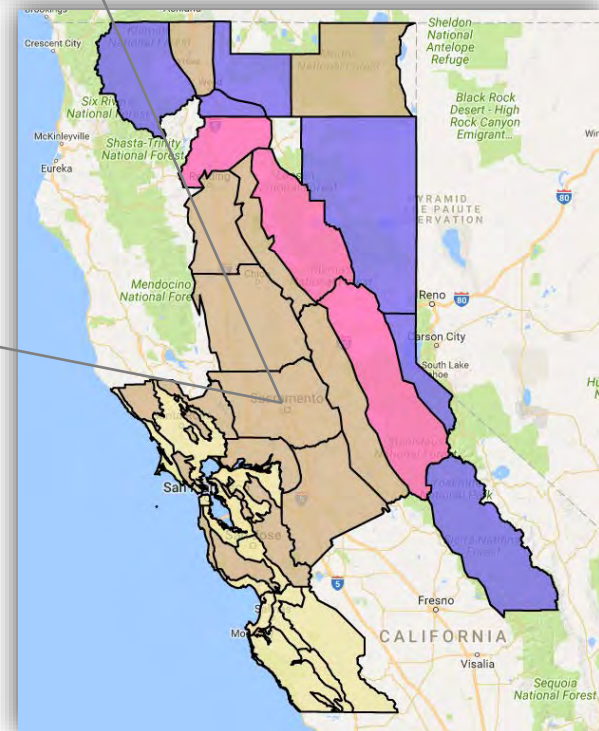
**Instruction:** A Wind Advisory means that winds of 35 mph or higher areexpected. Winds this strong can make driving difficult, especiallyfor high profile vehicles. Use extra caution.

**Description:** ...WIND ADVISORY REMAINS IN EFFECT FROM 9 AM THIS MORNING TO 7 PMPDT THIS EVENING...**\* TIMING...**Winds will increase this morning and continue throughthis afternoon before declining this evening and overnight.**\* WINDS...**South winds 20 to 30 mph with gusts up to 40 mph.**\* IMPACTS...**Local downed trees and limbs, blowing debris, andlocal power outages possible.Interact with us via social

[mediawww.facebook.com/nws.sacramento](http://mediawww.facebook.com/nws.sacramento)[www.twitter.com/nwssacramento](http://www.twitter.com/nwssacramento)

**Instruction:** A Wind Advisory means that winds of 35 mph or higher areexpected. Winds this strong can make driving difficult, especiallyfor high profile vehicles. Use extra caution.

## Wind Advisory





CAZ517 Active Alerts:

- Hazardous Weather Outlook

HazardousWeatherOutlook:

Sent: Not Available  
Expires: Not Available  
Effective: Not Available

Severity:  
Urgency:  
Certainty:

Type: Outlook  
Category: Outlook  
Status:  
Scope:  
Sender: National Weather Service San Francisco CA  
Source:

Note:

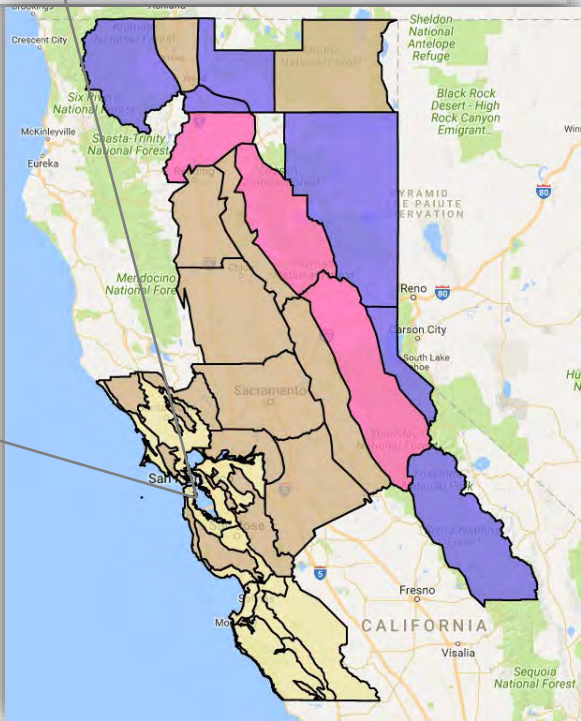
Area Description:  
San Francisco-  
Coastal North Bay Including Point Reyes National Seashore-  
North Bay Interior Valleys-North Bay Mountains-  
San Francisco Bay Shoreline-San Francisco Peninsula Coast-  
East Bay Interior Valleys-East Bay Hills and the Diablo Range-  
Santa Cruz Mountains-Santa Clara Valley Including San Jose-  
Southern Salinas Valley/Arroyo Seco and Lake San Antonio-  
Santa Lucia Mountains and Los Padres National Forest-  
Mountains Of San Benito County And Interior Monterey County  
Including Pinnacles National Park-  
Northern Salinas Valley/Hollister Valley and Carmel Valley-  
Northern Monterey Bay-Southern Monterey Bay and Big Sur Coast-  
547 AM PDT Fri Mar 24 2017

Headline: Outlook

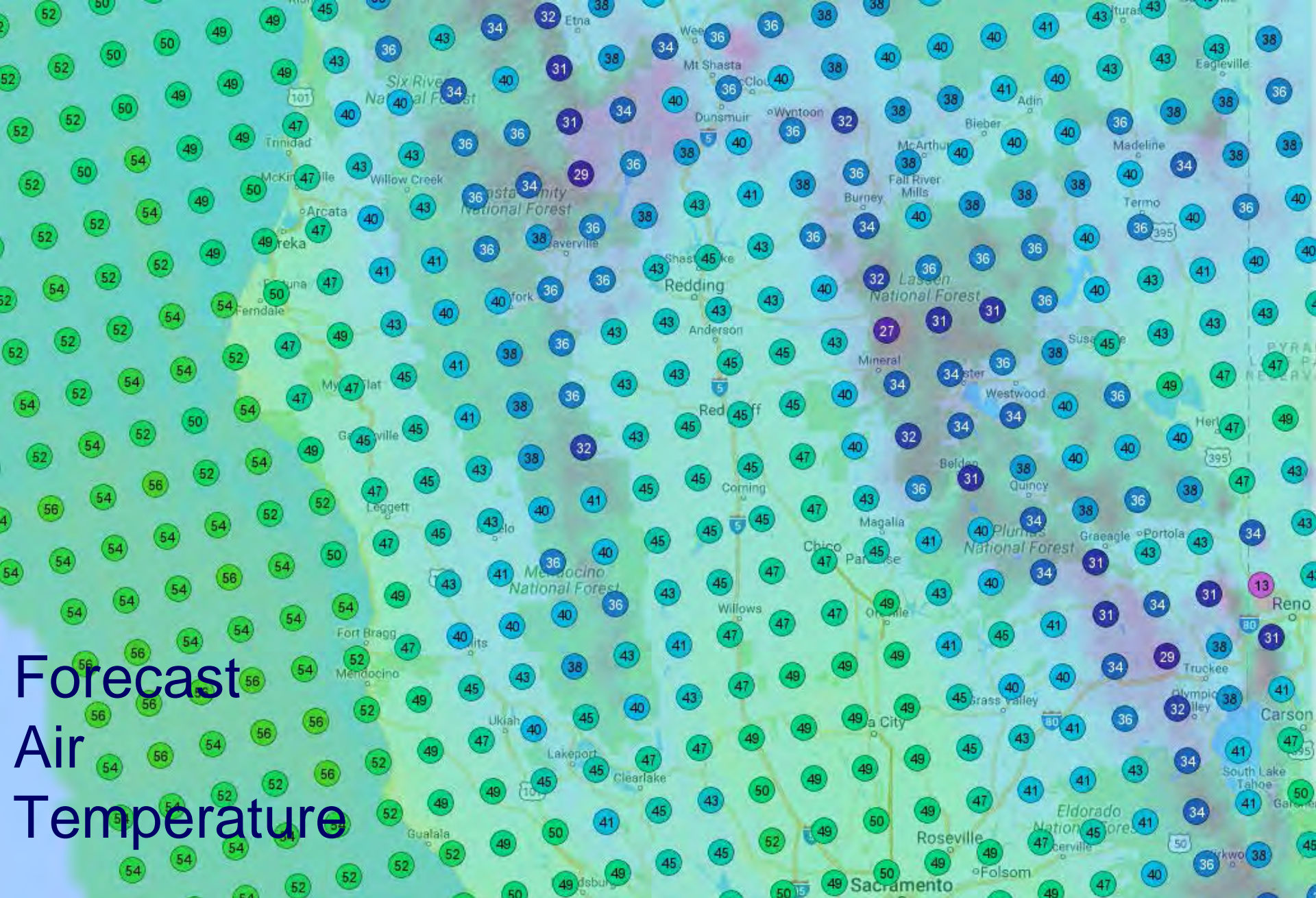
Description: This Hazardous Weather Outlook is for portions of western California.  
.DAY ONE...Today and Tonight  
A storm system will bring widespread rainfall and gusty southerly winds to our area today. Rain could be heavy at times which might lead to hydro issues. Gusty southerly winds could also topple some trees and power lines. A Wind Advisory is in effect for today for the San Francisco Peninsula...the North and East Bay Hills and the Diablo Range...and the Santa Cruz mountains.  
.DAYS TWO THROUGH SEVEN...Saturday through Thursday  
Saturday should be mostly dry...then another frontal system will sweep through the area on Sunday bringing another round of rain chances and gusty winds. After this storm departs...dry weather should follow for the rest of the week.  
.SPOTTER INFORMATION STATEMENT...

Description: This Hazardous Weather Outlook is for portions of western California.  
.DAY ONE...Today and Tonight  
A storm system will bring widespread rainfall and gusty southerly winds to our area today. Rain could be heavy at times which might lead to hydro issues. Gusty southerly winds could also topple some trees and power lines. A Wind Advisory is in effect for today for the San Francisco Peninsula...the North and East Bay Hills and the Diablo Range...and the Santa Cruz mountains.  
.DAYS TWO THROUGH SEVEN...Saturday through Thursday  
Saturday should be mostly dry...then another frontal system will sweep through the area on Sunday bringing another round of rain chances and gusty winds. After this storm departs...dry weather should follow for the rest of the week.  
.SPOTTER INFORMATION STATEMENT...

# Hazardous Weather Outlook

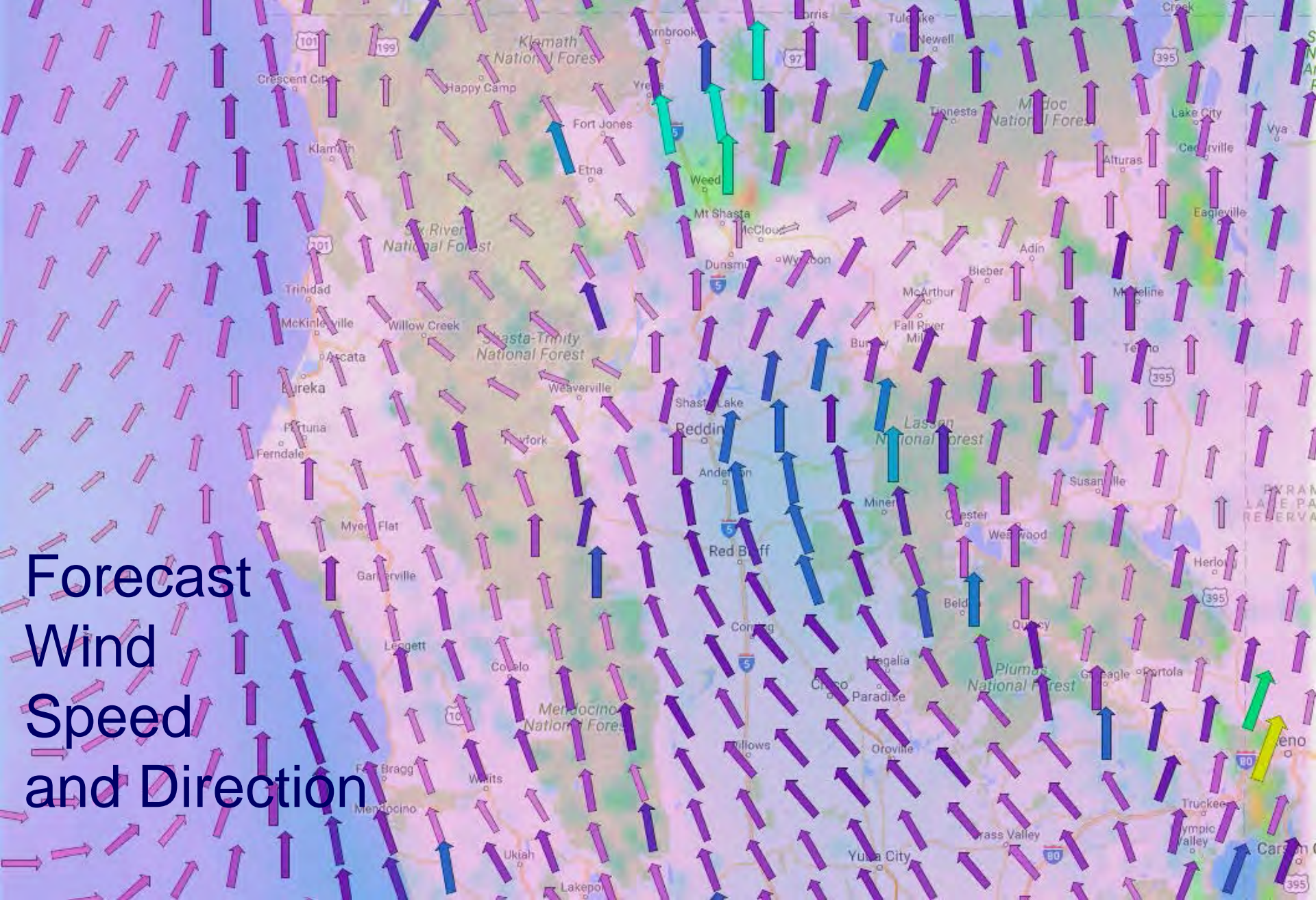






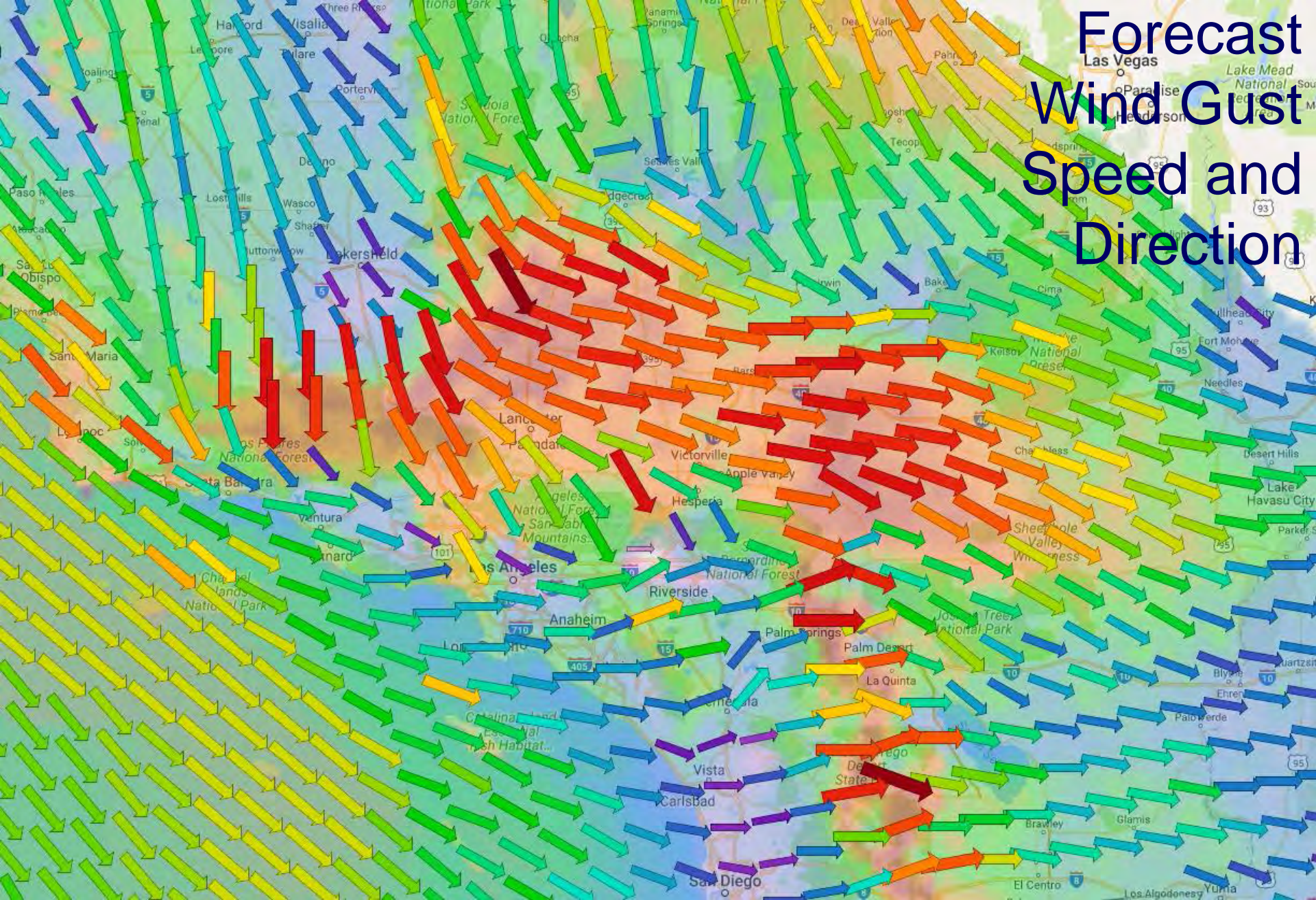
# Forecast Air Temperature



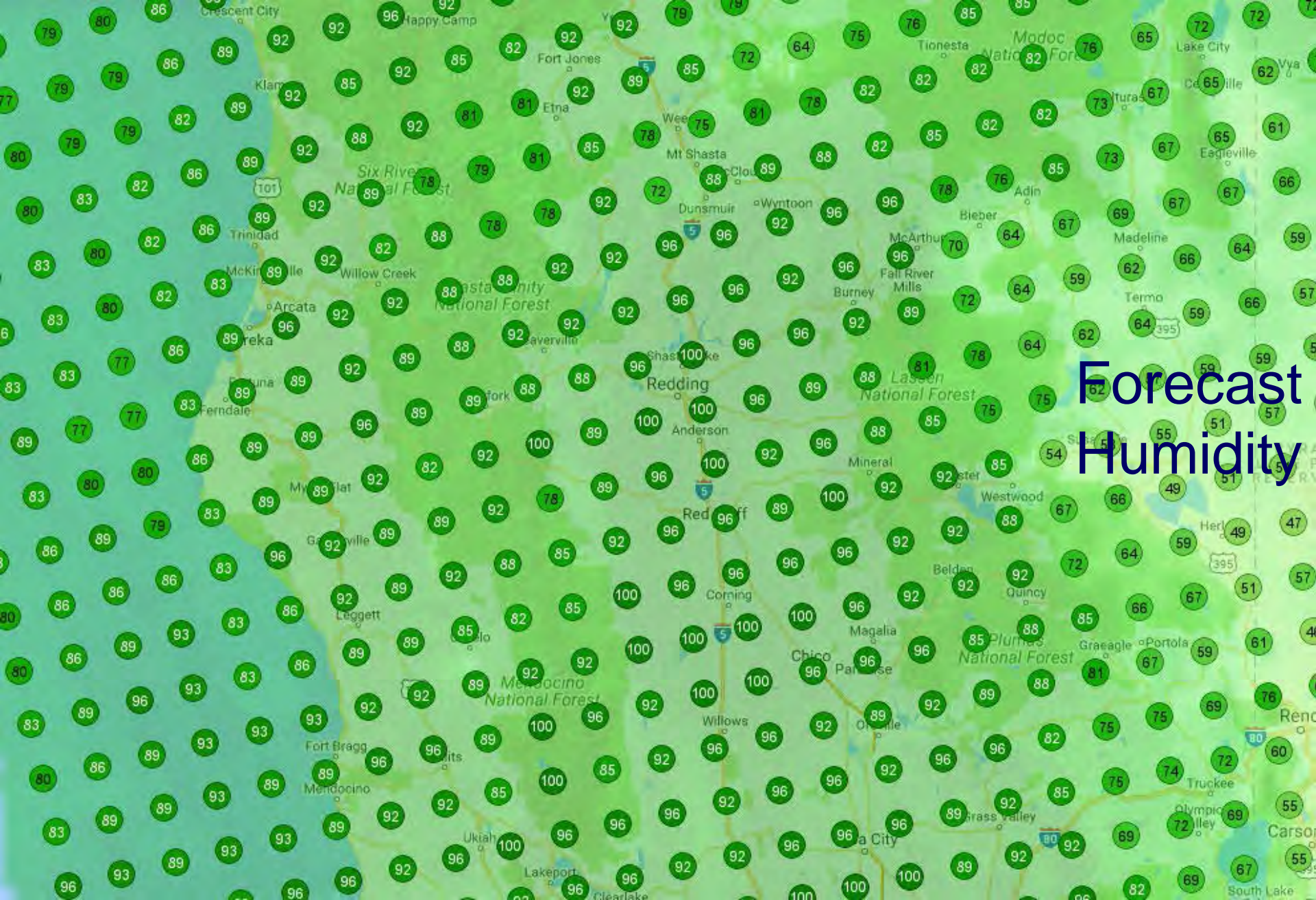




# Forecast Wind Gust Speed and Direction







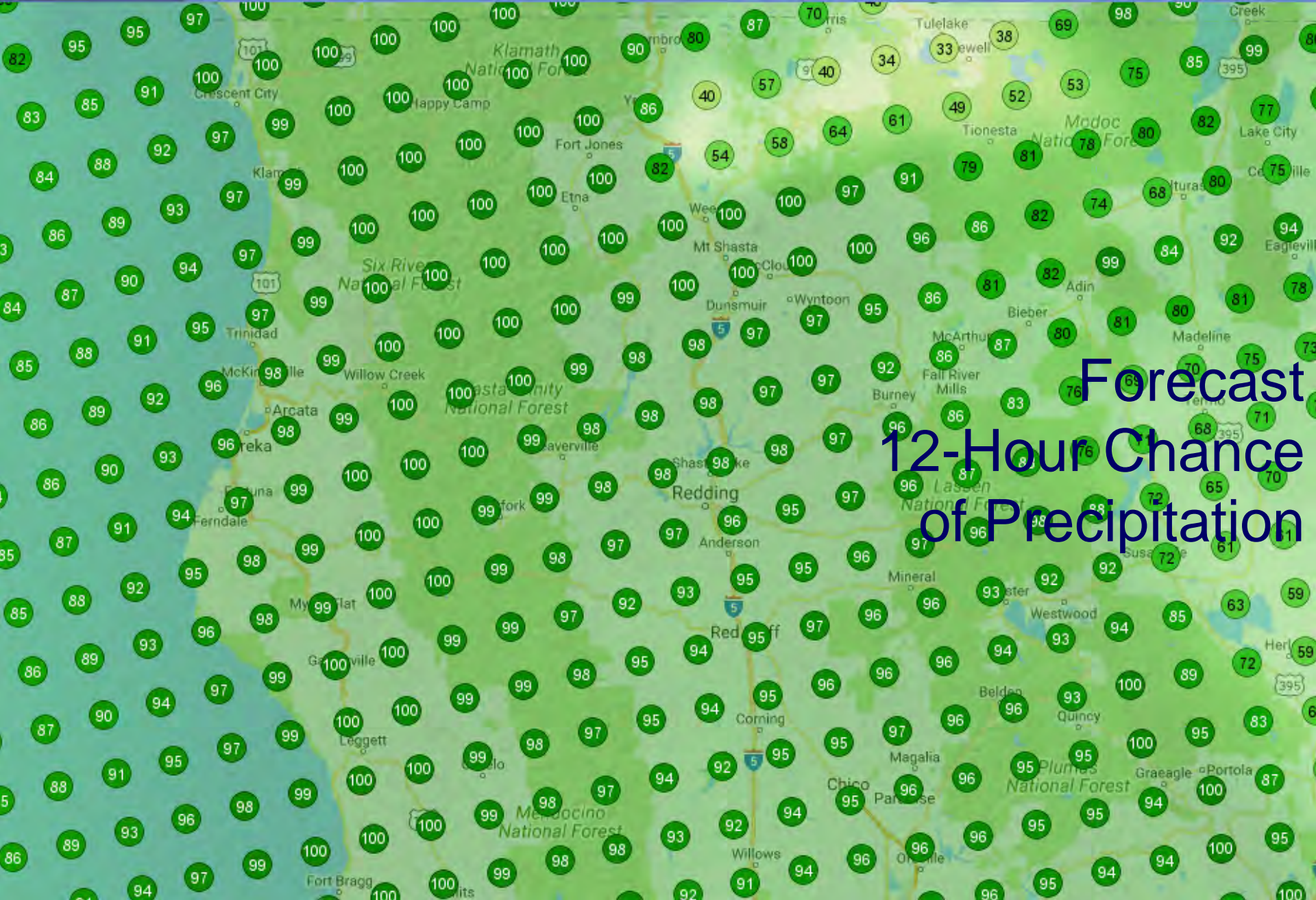
# Forecast Humidity





# Forecast Sky Cover





# Forecast 12-Hour Chance of Precipitation

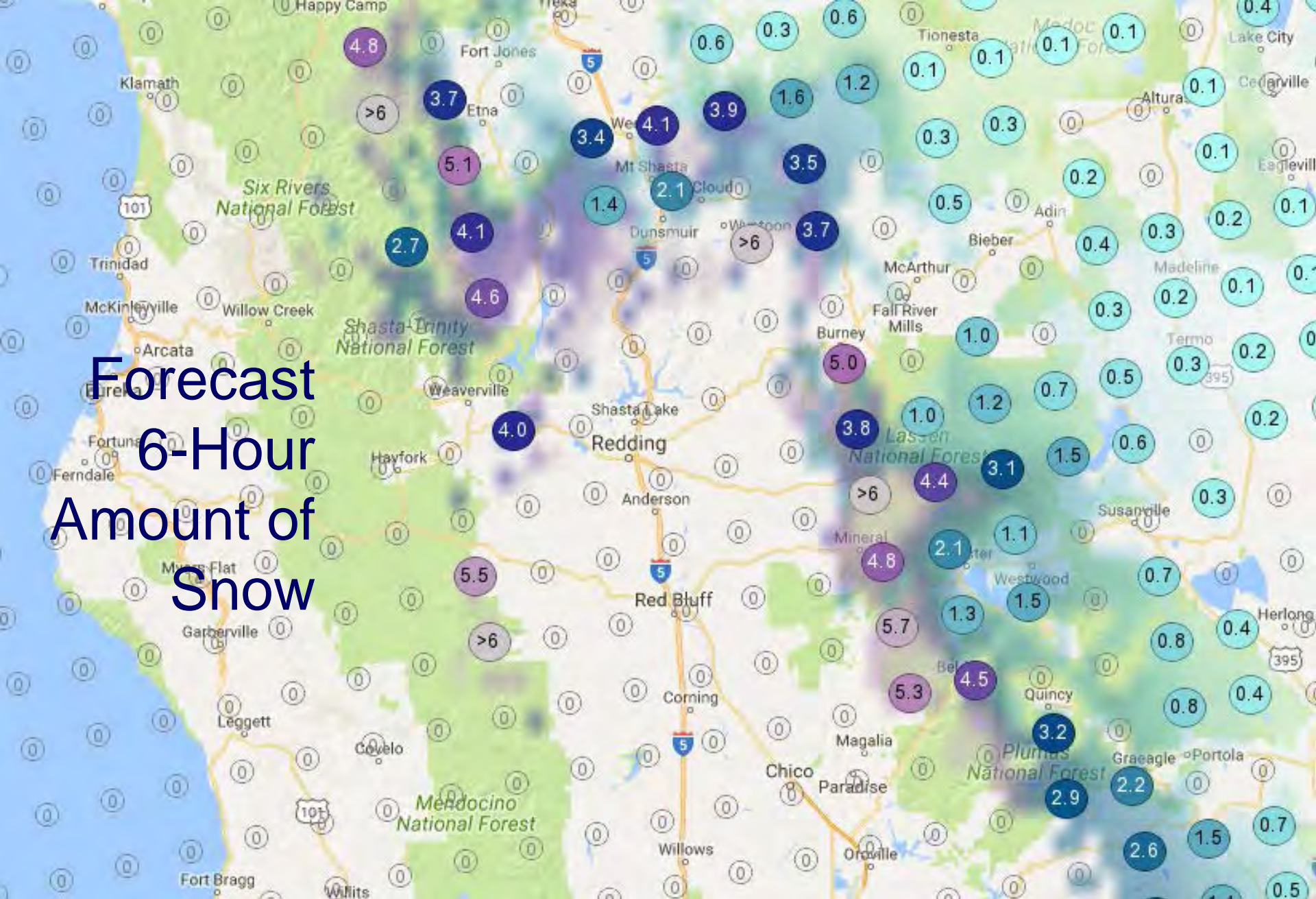




# Forecast 6-Hour Amount of Precipitation

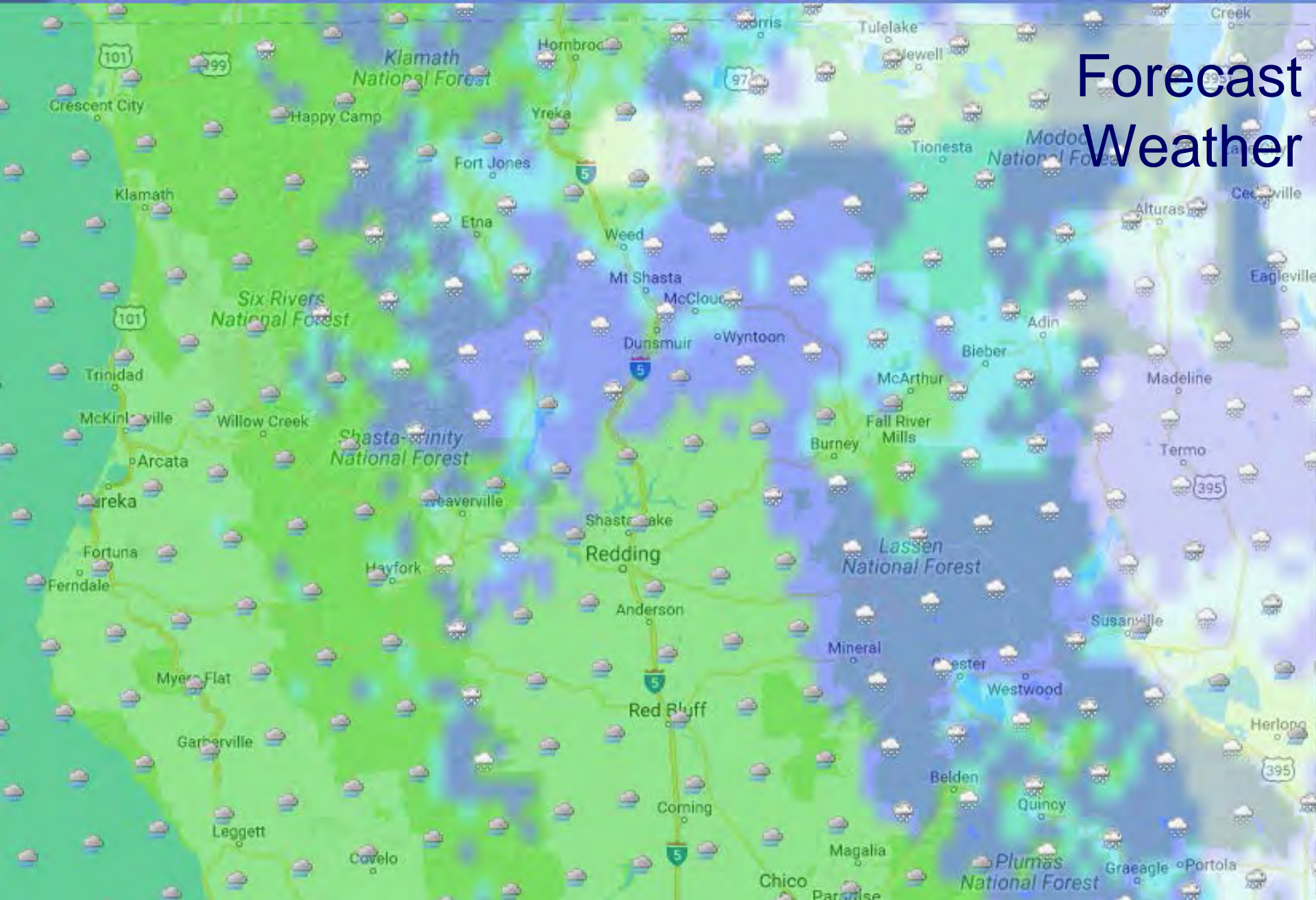


# Forecast 6-Hour Amount of Snow



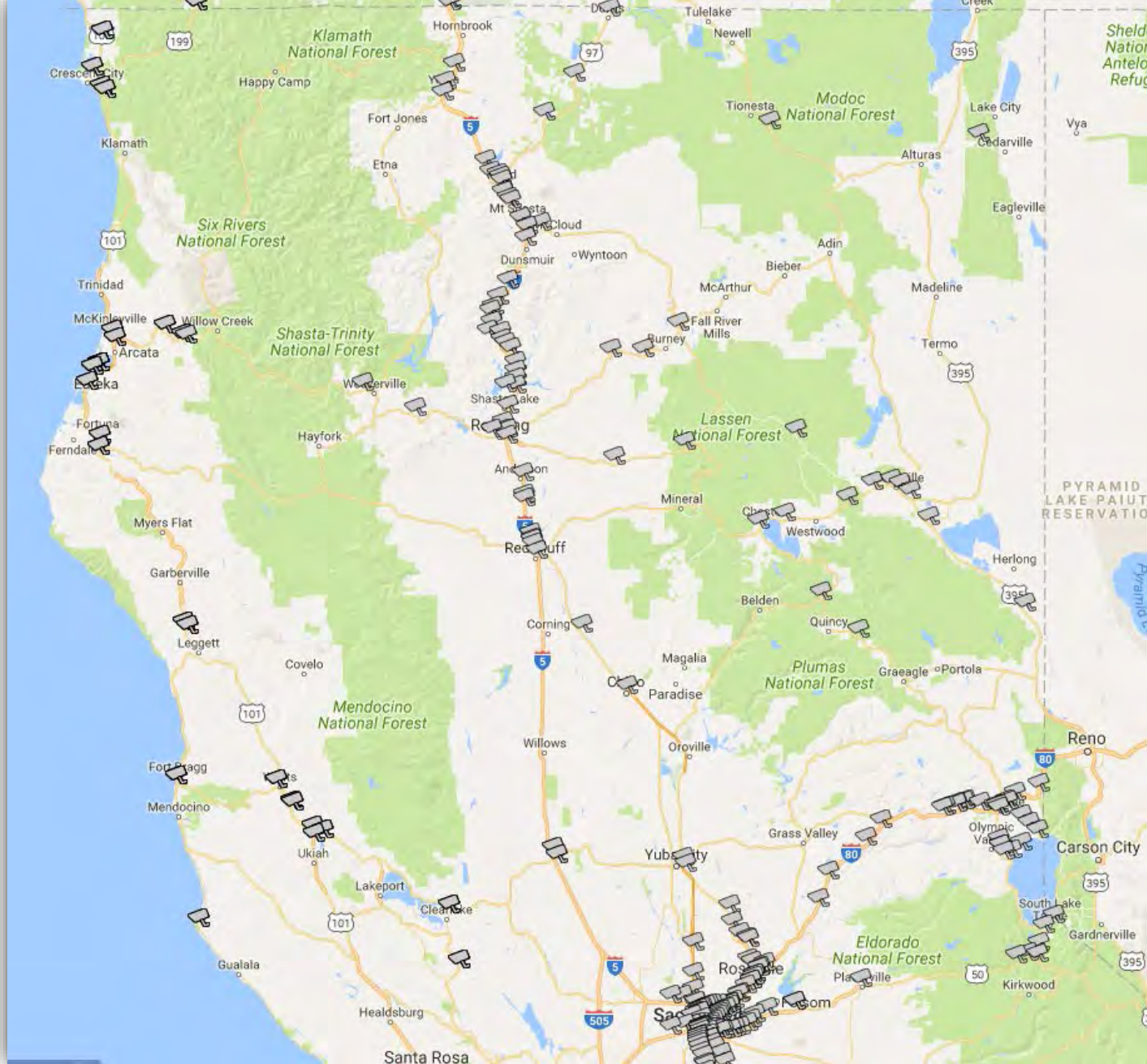


# Forecast Weather





CCTV









Alleghany

D03-71

I-80 AT WB KINGVALE  
LOW PRESSURE

Friday, March 24, 2017 10:19:09 PDT

aniteville

Gaston

D03-73

EAST  
SODA SPRINGS NB I-80

Friday, March 24, 2017 10:20:10 PDT

Baltimore  
Town

D03-104

I-80 AT DONNER SUMMIT

Friday, March 24, 2017 10:19:03 PDT

D03-74

WEST  
I-80 AT SEASTONE

Friday, March 24, 2017 10:19:09 PDT

CCTV - D3

Omega

Emigrant Gap

Blue Canyon

Camp Yuba Pass  
Spaulding

Cisco Grove  
Cisco

Kingvale

Norden

Eder

Soda Springs

Truckee

Palissade

89

Olympic

D03-70

WEST  
EB I-80 AT KINGVALE

Friday, March 24, 2017 10:19:09 PDT

D03-72

I-80 AT EB SODA SPRINGS  
LOW PRESSURE

Friday, March 24, 2017 10:19:10 PDT

Last Chance

D03-108

WEST  
I-80 AT CASTLE PEAK

Friday, March 24, 2017 10:19:03 PDT

D03-107

AZ: 25 EL: -8  
? U? ?? ? +222

INITIALIZING CAMERA...

Friday, March 24, 2017 10:19:10 PDT

D03-68

I-80 AT CRYSTAL SPRINGS

Friday, March 24, 2017 10:21:10 PDT



# The D2 Station List (unauthenticated)

[Atmospheric Overview](#) | [Graphical Overview](#)

[Login](#)

[District-2](#) [District-3](#)

Links	Station Name	ID	Last Updated	Active	Location	Elevation	Nearby Location	County	Route	Milepost
<a href="#">graphs historical summary</a>	Anderson Grade	D02-02	03/24/2017 09:46 AM	yes	-122.58937° 41.79255°	3002 ft	Yreka	Siskiyou	I-5	780.283
<a href="#">graphs historical summary</a>	Anderson Grade Summit	D02-81	03/24/2017 09:46 AM	yes	-122.58186° 41.80012°	3078 ft	Yreka	Siskiyou	I-5	780.993
<a href="#">graphs historical summary</a>	Antlers SmtRWIS	D02-04	03/24/2017 09:46 AM	yes	-122.36559° 40.86709°	1512 ft	Lakehead	Shasta	I-5	700.038
<a href="#">graphs historical summary</a>	Black Butte	D02-06	03/24/2017 09:37 AM	yes	-122.35590° 41.35411°	3912 ft	Mount Shasta	Siskiyou	I-5	741.746
<a href="#">graphs historical summary</a>	Bogard	D02-07	03/24/2017 09:46 AM	yes	-121.08870° 40.58548°	5629 ft	Susanville	Lassen	SR-44	84.312
<a href="#">graphs historical summary</a>	Buckhorn	D02-08	03/24/2017 09:40 AM	yes	-122.76080° 40.65457°	2646 ft	Lewiston	Trinity	SR-299	111.662
<a href="#">graphs historical summary</a>	Doyle	D02-13	03/24/2017 09:44 AM	yes	-120.08530° 40.00069°	4300 ft	Doyle	Lassen	US-395	379.026
<a href="#">graphs historical summary</a>	Dunsmuir	D02-14	03/24/2017 09:46 AM	yes	-122.27521° 41.21896°	2420 ft	Dunsmuir	Siskiyou	I-5	730.226
<a href="#">graphs historical summary</a>	Fredonyer Smt	D02-19	03/24/2017 09:47 AM	yes	-120.86760° 40.36054°	5741 ft	Susanville	Lassen	SR-36	231.218
<a href="#">graphs historical summary</a>	FredonyerEastRWIS	D02-20	03/24/2017 09:39 AM	yes	-120.83679° 40.36964°	5167 ft	Westwood	Lassen	SR-36	232.653
<a href="#">graphs historical summary</a>	Hatchet Mtn	D02-22	03/24/2017 09:45 AM	yes	-121.76202° 40.85216°	4366 ft	Burney	Shasta	SR-299	182.338
<a href="#">graphs historical summary</a>	HiltRWIS	D02-24	03/24/2017 09:41 AM	yes	-122.60745° 41.98883°	3097 ft	Hornbrook	Siskiyou	I-5	795.274
<a href="#">graphs historical summary</a>	HornbrookRWIS	D02-25	03/24/2017 09:43 AM	yes	-122.56764° 41.90631°	2303 ft	Hornbrook	Siskiyou	I-5	789.158
<a href="#">graphs historical summary</a>	Janesville	D02-28	03/24/2017 09:44 AM	yes	-120.50847° 40.29413°	4165 ft	Janesville	Lassen	US-395	410.23
<a href="#">graphs historical summary</a>	NorthWeedRWIS	D02-37	03/24/2017 09:48 AM	yes	-122.40218° 41.42958°	3465 ft	Weed	Siskiyou	I-5	747.987
<a href="#">graphs historical summary</a>	Oregon Mtn	D02-39	03/24/2017 09:48 AM	yes	-122.99080° 40.73877°	2775 ft	Weaverville	Trinity	SR-299	90.16
<a href="#">graphs historical summary</a>	Perez	D02-78	03/24/2017 09:45 AM	yes	-121.20725° 41.60412°	4478 ft	Perez	Modoc	SR-139	88.66
<a href="#">graphs historical summary</a>	Sims Road	D02-49	03/24/2017 09:35 AM	yes	-122.35592° 41.07786°	1804 ft	Castella	Shasta	I-5	718.468
<a href="#">graphs historical summary</a>	SnowmanRWIS	D02-51	03/24/2017 09:48 AM	yes	-122.21339° 41.26848°	4485 ft	Dunsmuir	Siskiyou	SR-89	237.775
<a href="#">graphs historical summary</a>	Spring Garden	D02-53	03/24/2017 09:38 AM	yes	-120.81840° 39.91438°	3813 ft	Quincy	Plumas	SR-70	131.351
<a href="#">graphs historical summary</a>	Vollmers	D02-61	03/24/2017 09:43 AM	yes	-122.42692° 40.94086°	1322 ft	Lakehead	Shasta	I-5	706.888
<a href="#">graphs historical summary</a>	Weed Airport	D02-64	03/24/2017 09:45 AM	yes	-122.45290° 41.47430°	2936 ft	Weed	Siskiyou	I-5	752.728

# The D2 Station List (authenticated)

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Links	Station Name	ID	Last Updated	Active	Location	Elevation	Nearby Location	County	Route	Milepost	Alerts
<a href="#">graphs historical summary</a>	Anderson Grade	D02-02	03/24/2017 09:46 AM	yes	-122.58937° 41.79255°	3002 ft	Yreka	Siskiyou	I-5	780.283	<a href="#">Alerts</a>
<a href="#">graphs historical summary</a>	Anderson Grade Summit	D02-81	03/24/2017 09:46 AM	yes	-122.58186° 41.80012°	3078 ft	Yreka	Siskiyou	I-5	780.993	<a href="#">Alerts</a>
<a href="#">graphs historical summary</a>	AntlersSmtRWIS	D02-04	03/24/2017 09:46 AM	yes	-122.36559° 40.86709°	1512 ft	Lakehead	Shasta	I-5	700.038	<a href="#">Alerts</a>
<a href="#">graphs historical summary</a>	Black Butte	D02-06	03/24/2017 09:52 AM	yes	-122.35590° 41.35411°	3912 ft	Mount Shasta	Siskiyou	I-5	741.746	<a href="#">Alerts</a>
<a href="#">graphs historical summary</a>	Bogard	D02-07	03/24/2017 09:46 AM	yes	-121.08870° 40.58548°	5629 ft	Susanville	Lassen	SR-44	84.312	<a href="#">Alerts</a>
<a href="#">graphs historical summary</a>	Buckhorn	D02-08	03/24/2017 09:40 AM	yes	-122.76080° 40.65457°	2646 ft	Lewiston	Trinity	SR-299	111.662	<a href="#">Alerts</a>
<a href="#">graphs historical summary</a>	Doyle	D02-13	03/24/2017 09:49 AM	yes	-120.08530° 40.00069°	4300 ft	Doyle	Lassen	US-395	379.026	<a href="#">Alerts</a>
<a href="#">graphs historical summary</a>	Dunsmuir	D02-14	03/24/2017 09:51 AM	yes	-122.27521° 41.21896°	2420 ft	Dunsmuir	Siskiyou	I-5	730.226	<a href="#">Alerts</a>
<a href="#">graphs historical summary</a>	Fredonyer Smt	D02-19	03/24/2017 09:52 AM	yes	-120.86760° 40.36054°	5741 ft	Susanville	Lassen	SR-36	231.218	<a href="#">Alerts</a>
<a href="#">graphs historical summary</a>	FredonyerEastRWIS	D02-20	03/24/2017 09:39 AM	yes	-120.83679° 40.36964°	5167 ft	Westwood	Lassen	SR-36	232.653	<a href="#">Alerts</a>
<a href="#">graphs historical summary</a>	Hatchet Mtn	D02-22	03/24/2017 09:50 AM	yes	-121.76202° 40.85216°	4366 ft	Burney	Shasta	SR-299	182.338	<a href="#">Alerts</a>
<a href="#">graphs historical summary</a>	HiltRWIS	D02-24	03/24/2017 09:41 AM	yes	-122.60745° 41.98883°	3097 ft	Hornbrook	Siskiyou	I-5	795.274	<a href="#">Alerts</a>
<a href="#">graphs historical summary</a>	HornbrookRWIS	D02-25	03/24/2017 09:43 AM	yes	-122.56764° 41.90631°	2303 ft	Hornbrook	Siskiyou	I-5	789.158	<a href="#">Alerts</a>
<a href="#">graphs historical summary</a>	Janesville	D02-28	03/24/2017 09:44 AM	yes	-120.50847° 40.29413°	4165 ft	Janesville	Lassen	US-395	410.23	<a href="#">Alerts</a>
<a href="#">graphs historical summary</a>	NorthWeedRWIS	D02-37	03/24/2017 09:48 AM	yes	-122.40218° 41.42958°	3465 ft	Weed	Siskiyou	I-5	747.987	<a href="#">Alerts</a>
<a href="#">graphs historical summary</a>	Oregon Mtn	D02-39	03/24/2017 09:48 AM	yes	-122.99080° 40.73877°	2775 ft	Weaverville	Trinity	SR-299	90.16	<a href="#">Alerts</a>
<a href="#">graphs historical summary</a>	Perez	D02-78	03/24/2017 09:50 AM	yes	-121.20725° 41.60412°	4478 ft	Perez	Modoc	SR-139	88.66	<a href="#">Alerts</a>
<a href="#">graphs historical summary</a>	Sims Road	D02-49	03/24/2017 09:50 AM	yes	-122.35592° 41.07786°	1804 ft	Castella	Shasta	I-5	718.468	<a href="#">Alerts</a>
<a href="#">graphs historical summary</a>	SnowmanRWIS	D02-51	03/24/2017 09:53 AM	yes	-122.21339° 41.26848°	4485 ft	Dunsmuir	Siskiyou	SR-89	237.775	<a href="#">Alerts</a>
<a href="#">graphs historical summary</a>	Spring Garden	D02-53	03/24/2017 09:53 AM	yes	-120.81840° 39.91438°	3813 ft	Quincy	Plumas	SR-70	131.351	<a href="#">Alerts</a>
<a href="#">graphs historical summary</a>	Vollmers	D02-61	03/24/2017 09:43 AM	yes	-122.42692° 40.94086°	1322 ft	Lakehead	Shasta	I-5	706.888	<a href="#">Alerts</a>
<a href="#">graphs historical summary</a>	Weed Airport	D02-64	03/24/2017 09:45 AM	yes	-122.45290° 41.47430°	2936 ft	Weed	Siskiyou	I-5	752.728	<a href="#">Alerts</a>



# Alerts

## Alerts for D02-07 - Bogard

	Alert Name	Alert Created	Author	Last Evaluation	Last Status Change	Status	
<a href="#">Definition History</a> <a href="#">Subscribe</a>	Bogard Freezing	02/01/2017 13:18:58 PM	dgalarusITS	03/24/2017 09:55:26 AM	03/24/2017 09:35:21 AM	Activated	<a href="#">Edit</a> <a href="#">Delete</a>
<a href="#">Definition History</a> <a href="#">Subscribe</a>	BogartPrecip	02/15/2017 08:15:25 AM	dgalarusITS	03/24/2017 09:55:26 AM	03/24/2017 09:55:26 AM	Activated	<a href="#">Edit</a> <a href="#">Delete</a>
<a href="#">Definition History</a> <a href="#">Subscribe</a>	Bogard near Freezing	03/21/2017 12:36:52 PM	dgalarusITS	03/24/2017 09:55:26 AM	03/24/2017 09:55:26 AM	Activated	<a href="#">Edit</a> <a href="#">Delete</a>
<a href="#">Definition History</a> <a href="#">Subscribe</a>	Bogard Wet Pavement	03/22/2017 13:03:35 PM	dgalarusITS	03/24/2017 09:55:26 AM	03/24/2017 09:55:26 AM	Activated	<a href="#">Edit</a> <a href="#">Delete</a>
<a href="#">Definition History</a> <a href="#">Subscribe</a>	Bogard Icy Road	03/23/2017 10:21:52 AM	dgalarusITS	03/24/2017 09:55:26 AM		Deactivated	<a href="#">Edit</a> <a href="#">Delete</a>

[New Alert](#)

# The D3 Station List (authenticated)

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Links	Station Name	ID	Last Updated	Active	Location	Elevation	Nearby Location	County	Route	Milepost	Alerts
<a href="#">graphs historical summary</a>	Hwy 267 at Brockway Summit	D03-06	03/24/2017 09:46 AM	yes	-120.07189° 39.26081°	7194 ft	Tahoe Vista	Placer	SR-267	8.50	<a href="#">Alerts</a>
<a href="#">graphs historical summary</a>	Hwy 267 at Truckee Bypass	D03-07	02/25/2016 06:45 AM	yes	-120.16325° 39.33431°	5866 ft	Truckee	Nevada	SR-267	0.36	<a href="#">Alerts</a>
<a href="#">graphs historical summary</a>	Hwy 28 at Dollar	D03-18	02/10/2017 07:13 AM	yes	-120.10387° 39.19358°	6522 ft	Tahoe City	Placer	SR-28	3.00	<a href="#">Alerts</a>
<a href="#">graphs historical summary</a>	Hwy 5 at Elkhorn	D03-14	03/24/2017 09:45 AM	yes	-121.64166° 38.67335°	19 ft	West Sacramento	Yolo	I-5	530.57	<a href="#">Alerts</a>
<a href="#">graphs historical summary</a>	Hwy 5 at Richards	D03-15	03/24/2017 09:46 AM	yes	-121.50445° 38.59846°	36 ft	Sacramento	Sacramento	I-5	519.85	<a href="#">Alerts</a>
<a href="#">graphs historical summary</a>	Hwy 50 at Echo Summit	D03-05	10/12/2016 01:02 PM	yes	-120.02994° 38.81322°	7401 ft	South Lake Tahoe	El Dorado	US-50	94.97	<a href="#">Alerts</a>
<a href="#">graphs historical summary</a>	Hwy 51 at Exposition	D03-13	02/25/2016 06:44 AM	yes	-121.44536° 38.59155°	32 ft	Sacramento	Sacramento	SR-51	2.97	<a href="#">Alerts</a>
<a href="#">graphs historical summary</a>	Hwy 80 at Blue Canyon	D03-01	03/24/2017 09:47 AM	yes	-120.70311° 39.28340°	5314 ft	Emigrant Gap	Placer	I-80	154.89	<a href="#">Alerts</a>
<a href="#">graphs historical summary</a>	Hwy 80 at Cisco Grove	D03-02	01/01/2017 11:35 PM	yes	-120.54444° 39.30916°	5675 ft	Soda Springs	Placer	I-80	164.88	<a href="#">Alerts</a>
<a href="#">graphs historical summary</a>	Hwy 80 at Donner Lake	D03-04	03/24/2017 09:51 AM	yes	-120.28773° 39.33194°	6407 ft	Truckee	Nevada	I-80	180.48	<a href="#">Alerts</a>
<a href="#">graphs historical summary</a>	Hwy 80 at Donner Summit	D03-03	02/25/2016 06:40 AM	yes	-120.34782° 39.33906°	7221 ft	Soda Springs	Nevada	I-80	176.31	<a href="#">Alerts</a>
<a href="#">graphs historical summary</a>	Hwy 80 at Floriston	D03-10	03/24/2017 09:53 AM	yes	-120.02388° 39.39557°	5291 ft	Floriston	Nevada	I-80	198.01	<a href="#">Alerts</a>
<a href="#">graphs historical summary</a>	Hwy 80 at Truckee Scales	D03-09	03/24/2017 09:39 AM	yes	-120.13009° 39.36223°	5826 ft	Truckee	Nevada	I-80	189.86	<a href="#">Alerts</a>
<a href="#">graphs historical summary</a>	Hwy 89 at Rampart	D03-17	03/24/2017 09:45 AM	yes	-120.17757° 39.16532°	6250 ft	Olympic Valley	Placer	SR-89	69.40	<a href="#">Alerts</a>
<a href="#">graphs historical summary</a>	Hwy 99 at McConnell	D03-16	03/24/2017 09:46 AM	yes	-121.34690° 38.36228°	49 ft	Elk Grove	Sacramento	SR-99	283.27	<a href="#">Alerts</a>
<a href="#">graphs historical summary</a>	Hwy 80 at Bryte Bend	D03-11	02/25/2016 06:37 AM	no	-121.54475° 38.60300°	19 ft	Sacramento	Sacramento	I-80	84.29	<a href="#">Alerts</a>
<a href="#">graphs historical summary</a>	Hwy 80 at Chiles	D03-08	02/24/2016 06:10 PM	no	-121.63891° 38.56359°	29 ft	Woodland	Yolo	I-80	78.00	<a href="#">Alerts</a>



# D2 Atmospheric Overview

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Links	Station Name	ID	Last Updated	Temperature					Relative Humidity %	Atmospheric Pressure in Hg	Wind						Precipitation										Visibility		Alerts		
				Air °F	Wet Bulb °F	Dew-point °F	24-hr Max °F	24-hr Min °F			Avg Speed mph	Avg Dir °	Spot Speed mph	Spot Dir °	Max Speed mph	Max Dir °	Rate Y/N in/hr	Situation text	Start Date Time	End Date Time	1 hr in	3 hr in	6 hr in	12 hr in	24 hr in	mi	Situation text				
<a href="#">graphs historical summary</a>	Anderson Grade	D02-02	03/24/2017 09:46 AM	36.50	35.78	34.88	57.92	34.88	93.0	x	1.79	SE	1.57	SE	3.58	S	Yes	0.003	Rain Slight	03/24/2017 09:29 AM			0.043	0.091	0.094	0.094	0.098	x		X	Alerts
<a href="#">graphs historical summary</a>	Anderson Grade Summit	D02-81	03/24/2017 09:46 AM	x	x	x	x	x	x	x	X		x	X	x	X	x	Not Reported	x	Error:Lookup			x	x	x	x	x	x	x	X	Alerts
<a href="#">graphs historical summary</a>	AntlersSmtRWIS	D02-04	03/24/2017 09:46 AM	41.90	40.10	37.76	59.72	40.64	85.0	x	4.47	SE	3.80	SE	12.08	SE	Yes	0.021	Rain Heavy	03/23/2017 08:35 PM			0.358	0.862	1.366	1.984	2.465	x	Unknown		Alerts
<a href="#">graphs historical summary</a>	Black Butte	D02-06	03/24/2017 09:52 AM	32.00	32.00	32.00	49.82	31.64	99.0	x	15.21	SE	14.09	S	24.16	SE		x	x	Other			0.008	0.016	0.024	0.055	0.087	x		X	Alerts
<a href="#">graphs historical summary</a>	Bogard	D02-07	03/24/2017 09:46 AM	32.18	30.74	28.22	44.60	30.92	85.0	x	3.36	SE	2.46	SE	8.50	SE		x	x	Error:Lookup			0.031	0.055	0.079	0.079	0.079	x		X	Alerts
<a href="#">graphs historical summary</a>	Buckhorn	D02-08	03/24/2017 09:40 AM	33.80	32.90	31.64	40.82	33.08	91.0	x	0.89	NW	1.34	NW	2.24	NE	Yes		x	Unknown	03/24/2017 09:37 AM			x	x	x	x	x	x	X	Alerts
<a href="#">graphs historical summary</a>	Doyle	D02-13	03/24/2017 09:49 AM	46.94	40.10	31.28	55.22	29.12	53.0	x	10.07	S	6.04	SE	13.42	SE	No	0.000	No Precipitation	03/21/2017 03:01 PM	03/21/2017 03:27 PM	0.000	0.000	0.000	0.000	0.000	x	Unknown		Alerts	
<a href="#">graphs historical summary</a>	Dunsmuir	D02-14	03/24/2017 09:51 AM	32.00	32.00	32.00	54.86	32.18	99.0	x	5.37	SE	5.82	E	5.82	SE	Yes	0.006	Rain Moderate	03/24/2017 09:28 AM			0.055	0.126	0.362	0.799	0.945	x		X	Alerts
<a href="#">graphs historical summary</a>	Fredonyer Smt	D02-19	03/24/2017 09:52 AM	31.82	29.12	23.54	43.52	29.66	71.0	x	6.26	W	13.20	W	12.97	N		x	x	Error:Lookup			0.004	0.008	0.008	0.008	0.008	x		X	Alerts
<a href="#">graphs historical summary</a>	FredonyerEastRWIS	D02-20	03/24/2017 09:39 AM	34.88	30.74	22.28	48.20	32.90	59.0	x	4.03	S	0.00	SW	12.97	S	Yes		x	Unknown	03/24/2017 04:15 AM			x	x	x	x	x	x	X	Alerts
<a href="#">graphs historical summary</a>	Hatchet Mtn	D02-22	03/24/2017 09:50 AM	32.00	32.00	31.82	46.94	29.66	98.0	x	0.00	N	0.00	SW	0.00	NW	Yes	0.009	Rain Moderate	03/24/2017 07:44 AM			0.110	0.256	0.484	0.634	0.634	x		X	Alerts
<a href="#">graphs historical summary</a>	HiltRWIS	D02-24	03/24/2017 09:41 AM	35.24	34.34	33.08	55.04	30.38	91.0	x	5.14	SE	9.17	E	9.62	SE	Yes	0.003	Rain Slight	03/24/2017 09:39 AM			0.059	0.236	0.272	0.287	0.319	x		X	Alerts
<a href="#">graphs historical summary</a>	HornbrookRWIS	D02-25	03/24/2017 09:43 AM	38.48	36.68	34.34	59.72	37.76	85.0	x	4.47	E	4.03	E	7.38	E	Yes	0.001	Rain Slight	03/24/2017 05:58 AM			0.031	0.169	0.193	0.197	0.205	x		X	Alerts
<a href="#">graphs historical summary</a>	Janesville	D02-28	03/24/2017 09:44 AM	44.60	39.56	32.90	52.70	27.14	62.0	x	16.11	S	8.28	SW	24.38	SW	No	0.000	No Precipitation	03/22/2017 09:10 AM	03/22/2017 09:15 AM	0.000	0.000	0.000	0.000	0.000	x		X	Alerts	
<a href="#">graphs historical summary</a>	NorthWeedRWIS	D02-37	03/24/2017 09:48 AM	34.52	33.08	31.10	50.72	30.20	86.0	x	25.05	SE	25.05	SE	33.33	SE	Yes	0.006	Rain Moderate	03/24/2017 08:07 AM			0.106	0.232	0.382	0.476	0.516	x		X	Alerts
<a href="#">graphs historical summary</a>	Oregon Mtn	D02-39	03/24/2017 09:48 AM	34.52	33.98	33.26	55.58	33.98	94.0	x	8.72	E	5.59	E	11.18	E	Yes	0.009	Rain Moderate	03/23/2017 10:40 PM			0.122	0.390	0.748	1.303	1.425	x		X	Alerts
<a href="#">graphs historical summary</a>	Perez	D02-78	03/24/2017 09:50 AM	34.70	34.34	33.98	51.44	25.34	96.0	x	6.71	S	8.28	S	9.62	S	No	0.000	No Precipitation	03/24/2017 09:35 AM	03/24/2017 09:40 AM	0.024	0.043	0.055	0.055	0.055	x		X	Alerts	
<a href="#">graphs historical summary</a>	Sims Road	D02-49	03/24/2017 09:50 AM	35.60	35.06	34.34	57.74	36.32	95.0	x	0.00	SE	1.34	SE	2.68	SW	Yes	0.016	Rain Moderate	03/23/2017 11:56 PM			0.189	0.563	1.035	1.665	1.878	x		X	Alerts
<a href="#">graphs historical summary</a>	SnowmanRWIS	D02-51	03/24/2017 09:53 AM	31.46	30.92	30.20	36.32	29.84	95.0	x	0.00	SE	0.00	S	0.00	N	Yes	0.006	Unidentified Slight	03/23/2017 07:16 PM			0.189	0.650	1.134	1.795	1.890	x		X	Alerts
<a href="#">graphs historical summary</a>	Spring Garden	D02-53	03/24/2017 09:53 AM	37.40	36.86	36.50	54.68	31.64	96.0	x	1.79	SE	1.57	E	5.59	S	Yes	0.006	Rain Moderate	03/24/2017 09:27 AM			0.055	0.091	0.130	0.130	0.130	x		X	Alerts
<a href="#">graphs historical summary</a>	Vollmers	D02-61	03/24/2017 09:43 AM	38.84	38.30	37.94	59.00	36.32	96.0	x	1.34	NW	0.00	NW	2.46	NW	Yes	0.013	Rain Moderate	03/23/2017 11:32 PM			0.217	0.610	0.945	1.539	1.878	x		X	Alerts
<a href="#">graphs historical summary</a>	Weed Airport	D02-64	03/24/2017 09:45 AM	36.86	32.00	21.74	55.40	35.96	54.0	x	26.84	SE	26.62	SE	36.91	SE	No	0.000	No Precipitation	03/24/2017 09:42 AM	03/24/2017 09:43 AM	0.012	0.031	0.043	0.047	0.047	x		X	Alerts	

# D2 Atmospheric Overview

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Links	Station Name	ID	Last Updated	Temperature					Relative Humidity %	Atmospheric Pressure in Hg
				Air °F	Wet Bulb °F	Dew-point °F	24-hr Max °F	24-hr Min °F		
<a href="#">graphs historical summary</a>	Anderson Grade	D02-02	03/24/2017 09:46 AM	36.50	35.78	34.88	57.92	34.88	93.0	x
<a href="#">graphs historical summary</a>	Anderson Grade Summit	D02-81	03/24/2017 09:46 AM	x	x	x	x	x	x	x
<a href="#">graphs historical summary</a>	Antlers SmtRWIS	D02-04	03/24/2017 09:46 AM	41.90	40.10	37.76	59.72	40.64	85.0	x
<a href="#">graphs historical summary</a>	Black Butte	D02-06	03/24/2017 09:52 AM	32.00	32.00	32.00	49.82	31.64	99.0	x
<a href="#">graphs historical summary</a>	Bogard	D02-07	03/24/2017 09:46 AM	32.18	30.74	28.22	44.60	30.92	85.0	x

Wind						Precipitation										Visibility		
Avg Speed mph	Avg Dir °	Spot Speed mph	Spot Dir °	Max Speed mph	Max Dir °	Rate Y/N	Situation text	Start Date Time	End Date Time	1 hr in	3 hr in	6 hr in	12 hr in	24 hr in	Situation mi	Alerts		
1.79	SE	1.57	SE	3.58	S	Yes	0.003	Rain Slight	03/24/2017 09:29 AM		0.043	0.091	0.094	0.094	0.098	x	X Alerts	
X	x	X	x	X	x	Not Reported				x	Error:Lookup		x	x	x	x	x	X Alerts
4.47	SE	3.80	SE	12.08	SE	Yes	0.021	Rain Heavy	03/23/2017 06:35 PM		0.358	0.862	1.366	1.984	2.465	x	Unknown Alerts	
15.21	SE	14.09	S	24.16	SE		x	Other			0.008	0.016	0.024	0.055	0.087	x	X Alerts	
3.36	SE	2.46	SE	8.50	SE		x	Error:Lookup			0.031	0.055	0.079	0.079	0.079	x	X Alerts	



# D3 Atmospheric Overview

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Links	Station Name	ID	Last Updated	Temperature					Relative Humidity %	Atmospheric Pressure in Hg	Wind						Precipitation										Visibility		Alerts
				Air °F	Wet Bulb °F	Dew-point °F	24-hr Max °F	24-hr Min °F			Avg Speed mph	Avg Dir °	Spot Speed mph	Spot Dir °	Max Speed mph	Max Dir °	Rate Y/N	Situation text	Start Date Time	End Date Time	1 hr in	3 hr in	6 hr in	12 hr in	24 hr in	mi	Situation text		
<a href="#">graphs historical summary</a>	Hwy 267 at Brockway Summit	D03-06	03/24/2017 09:46 AM	32.54	32.18	31.82	41.36	21.74	96.0		x 6.49	NW	0.67	W	8.95	NW	x x	Frozen Precipitation Slight				x	x	x	x	x	0.04	Other	<a href="#">Alerts</a>
<a href="#">graphs historical summary</a>	Hwy 267 at Truckee Bypass	D03-07	02/25/2016 09:45 AM	43.88		15.98	58.10	42.80	32.0		x 0.89	SE	0.67	SE	1.34	SE	No 0.000	No Precipitation	02/24/2016 01:21 PM	02/24/2016 01:22 PM	0.000	0.000	0.000	0.000	0.000	x	X	<a href="#">Alerts</a>	
<a href="#">graphs historical summary</a>	Hwy 28 at Dollar	D03-18	02/10/2017 07:13 AM	32.00	31.64	31.10	32.00	31.82	97.0		x 0.00	W		x x 0.45	W		x x	Unknown			x	x	x	x	x	x	Unknown	<a href="#">Alerts</a>	
<a href="#">graphs historical summary</a>	Hwy 5 at Elkhorn	D03-14	03/24/2017 09:45 AM	52.70	50.90	49.46	54.68	51.08	88.0	30.07	22.37	SE		x x 29.75	S	Yes 0.001	Rain Slight			0.008	0.051	0.083		x	1.24	Unknown	<a href="#">Alerts</a>		
<a href="#">graphs historical summary</a>	Hwy 5 at Richards	D03-15	03/24/2017 09:46 AM	53.42	51.44	49.82	64.40	48.38	87.0		x 11.18	SE		x x 20.13	SW	No 0.000	No Precipitation			0.000	0.000	0.000	0.000	0.000	1.24	Unknown	<a href="#">Alerts</a>		
<a href="#">graphs historical summary</a>	Hwy 50 at Echo Summit	D03-05	10/12/2016 01:02 PM	57.38	151.16	29.48	57.38	36.14	29.0		x 3.36	S	3.58	SW	8.28	S	No 0.000	No Precipitation	10/06/2016 08:24 AM	10/06/2016 08:32 AM	0.000	0.000	0.000	0.000	0.000	1.24	Clear	<a href="#">Alerts</a>	
<a href="#">graphs historical summary</a>	Hwy 51 at Exposition	D03-13	02/25/2016 06:44 AM	48.56		45.14	66.92	48.38	88.0	30.09	4.47	N		x x 6.71	E	No 0.000	No Precipitation			0.000	0.000	0.000	0.000		x	x	X	<a href="#">Alerts</a>	
<a href="#">graphs historical summary</a>	Hwy 80 at Blue Canyon	D03-01	03/24/2017 09:47 AM	32.00	29.84	25.34	37.22	32.00	76.0		x 3.36	SE	5.82	SE	14.99	SE	x x	Other	06/25/2016 08:59 PM	06/25/2016 09:00 PM	0.000	0.000	0.000	0.000	0.000	40.72	Unknown	<a href="#">Alerts</a>	
<a href="#">graphs historical summary</a>	Hwy 80 at Cisco Grove	D03-02	01/01/2017 11:35 PM	23.90	22.82	20.66	26.60	23.72	87.0		x 9.17	SW		x x 20.36	NE	Yes 0.002	Snow Slight			0.012	0.028	0.059		x	0.40	Unknown	<a href="#">Alerts</a>		
<a href="#">graphs historical summary</a>	Hwy 80 at Donner Lake	D03-04	03/24/2017 09:51 AM	33.26	32.00	29.66	42.62	29.84	86.0	23.73		x x	x	x	x	x	Yes 0.028	Rain Heavy	03/24/2017 03:53 AM		0.476	1.421	2.248	2.390	x	0.43	Other	<a href="#">Alerts</a>	
<a href="#">graphs historical summary</a>	Hwy 80 at Donner Summit	D03-03	02/25/2016 06:40 AM	43.88		15.08	58.10	42.80	31.0		x 0.89	E	0.89	SE	1.12	E	No 0.000	No Precipitation	02/24/2016 01:21 PM	02/24/2016 01:22 PM	0.000	0.000	0.000	0.000	0.000	x	X	<a href="#">Alerts</a>	
<a href="#">graphs historical summary</a>	Hwy 80 at Floriston	D03-10	03/24/2017 09:53 AM	44.24	38.84	31.46	51.62	36.68	60.0		x 10.29	S		x x 22.37	W		x x	Unknown			x	x	x	x	x	x	Unknown	<a href="#">Alerts</a>	
<a href="#">graphs historical summary</a>	Hwy 80 at Truckee Scales	D03-09	03/24/2017 09:39 AM	37.40		x 30.92	45.50	32.00	77.0		x 15.43	S		x x 26.62	W		x x	Unknown			x	x	x	x	x	x	X	<a href="#">Alerts</a>	
<a href="#">graphs historical summary</a>	Hwy 89 at Rampart	D03-17	03/24/2017 09:45 AM	34.70	34.16	33.62	41.00	19.76	96.0		x 3.58	N	0.00	E	9.17	NW	x x	Snow Moderate			x	x	x	x	x	0.34	Blowing Snow	<a href="#">Alerts</a>	
<a href="#">graphs historical summary</a>	Hwy 99 at McConnell	D03-16	03/24/2017 09:46 AM	52.52	50.36	48.38	64.04	46.94	86.0	30.08	10.07	SE		x x 21.47	SW	Yes 0.000	No Precipitation			0.012	0.035	0.043	0.043	0.043	1.24	Unknown	<a href="#">Alerts</a>		
<a href="#">graphs historical summary</a>	Hwy 80 at Bryte Bend	D03-11	02/25/2016 06:37 AM	x	x	x	x	x	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	<a href="#">Alerts</a>	
<a href="#">graphs historical summary</a>	Hwy 80 at Chiles	D03-08	02/24/2016 06:10 PM	x	x	x	x	x	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	<a href="#">Alerts</a>	

# D3 Atmospheric Overview

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Links	Station Name	ID	Last Updated	Temperature					Relative Humidity %	Atmospheric Pressure in Hg
				Air °F	Wet Bulb °F	Dew-point °F	24-hr Max °F	24-hr Min °F		
<a href="#">graphs historical summary</a>	Hwy 267 at Brockway Summit	D03-06	03/24/2017 09:46 AM	32.54	32.18	31.82	41.36	21.74	96.0	x
<a href="#">graphs historical summary</a>	Hwy 267 at Truckee Bypass	D03-07	02/25/2018 06:45 AM	43.88		15.98	58.10	42.80	32.0	x
<a href="#">graphs historical summary</a>	Hwy 28 at Dollar	D03-18	02/10/2017 07:13 AM	32.00	31.64	31.10	32.00	31.82	97.0	x
<a href="#">graphs historical summary</a>	Hwy 5 at Elkhorn	D03-14	03/24/2017 09:45 AM	52.70	50.90	49.46	54.68	51.08	88.0	30.07
<a href="#">graphs historical summary</a>	Hwy 5 at Richards	D03-15	03/24/2017 09:46 AM	53.42	51.44	49.82	64.40	48.38	87.0	x

Wind						Precipitation										Visibility		
Avg Speed mph	Avg Dir °	Spot Speed mph	Spot Dir °	Max Speed mph	Max Dir °	Rate Y/N	Situation in/hr text	Start Date Time	End Date Time	1 hr in	3 hr in	6 hr in	12 hr in	24 hr in	mi	Situation text	Alerts	
6.49	NW	0.67	W	8.95	NW	x	Frozen Precipitation Slight			x	x	x	x	x	0.04	Other	Alerts	
0.89	SE	0.67	SE	1.34	SE	No	No Precipitation	02/24/2016 01:21 PM	02/24/2016 01:22 PM	0.000	0.000	0.000	0.000	0.000	x	x	Alerts	
0.00	W	x	x	0.45	W	x	x	Unknown		x	x	x	x	x	x	Unknown	Alerts	
22.37	SE	x	x	29.75	S	Yes	0.001	Rain Slight		0.008	0.051	0.083	x	x	1.24	Unknown	Alerts	



# D2 Graphical Overview

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Links	Station Name	ID	Last Updated	Air Temperature	Dewpoint	Relative Humidity	Average Wind	Wind Gust	One-Hour Precipitation	Precipitation Situation	Alerts
<a href="#">graphs historical summary</a>	Anderson Grade	D02-02	03/24/2017 09:46 AM								Alerts
<a href="#">graphs historical summary</a>	Anderson Grade Summit	D02-81	03/24/2017 09:46 AM								Alerts
<a href="#">graphs historical summary</a>	AntlersSmtRWIS	D02-04	03/24/2017 09:46 AM								Alerts
<a href="#">graphs historical summary</a>	Black Butte	D02-06	03/24/2017 09:52 AM								Alerts
<a href="#">graphs historical summary</a>	Bogard	D02-07	03/24/2017 09:46 AM								Alerts
<a href="#">graphs historical summary</a>	Buckhorn	D02-08	03/24/2017 09:40 AM								Alerts
<a href="#">graphs historical summary</a>	Doyle	D02-13	03/24/2017 09:46 AM								Alerts
<a href="#">graphs historical summary</a>	Dunsmuir	D02-14	03/24/2017 09:51 AM								Alerts
<a href="#">graphs historical summary</a>	Fredonyer Smt	D02-19	03/24/2017 09:52 AM								Alerts
<a href="#">graphs historical summary</a>	FredonyerEastRWIS	D02-20	03/24/2017 09:39 AM								Alerts
<a href="#">graphs historical summary</a>	Hatchet Mtn	D02-22	03/24/2017 09:50 AM								Alerts
<a href="#">graphs historical summary</a>	HiltRWIS	D02-24	03/24/2017 09:41 AM								Alerts
<a href="#">graphs historical summary</a>	HornbrookRWIS	D02-25	03/24/2017 09:43 AM								Alerts
<a href="#">graphs historical summary</a>	Janesville	D02-28	03/24/2017 09:44 AM								Alerts
<a href="#">graphs historical summary</a>	NorthWeedRWIS	D02-37	03/24/2017 09:48 AM								Alerts
<a href="#">graphs historical summary</a>	Oregon Mtn	D02-39	03/24/2017 09:48 AM								Alerts
<a href="#">graphs historical summary</a>	Perez	D02-78	03/24/2017 09:50 AM								Alerts
<a href="#">graphs historical summary</a>	Sims Road	D02-49	03/24/2017 09:50 AM								Alerts
<a href="#">graphs historical summary</a>	SnowmanRWIS	D02-51	03/24/2017 09:53 AM								Alerts
<a href="#">graphs historical summary</a>	Spring Garden	D02-53	03/24/2017 09:53 AM								Alerts
<a href="#">graphs historical summary</a>	Vollmers	D02-61	03/24/2017 09:43 AM								Alerts
<a href="#">graphs historical summary</a>	Weed Airport	D02-64	03/24/2017 09:45 AM								Alerts

# D2 Graphical Overview

Station Name	ID	Last Updated	Air Temperature	Dewpoint	Relative Humidity	Average Wind	Wind Gust
Anderson Grade	D02-02	03/24/2017 09:46 AM					
Anderson Grade Summit	D02-81	03/24/2017 09:46 AM					
Antlers SmtRWIS	D02-04	03/24/2017 09:46 AM					
Black Butte	D02-06	03/24/2017 09:52 AM					
Bogard	D02-07	03/24/2017 09:46 AM					
Buckhorn	D02-08	03/24/2017 09:40 AM					
Doyle	D02-13	03/24/2017 09:49 AM					
Dunsmuir	D02-14	03/24/2017 09:51 AM					
Fredonyer Smt	D02-19	03/24/2017 09:52 AM					
FredonyerEastRWIS	D02-20	03/24/2017 09:39 AM					
Hatchet Mtn	D02-22	03/24/2017 09:50 AM					
HiltRWIS	D02-24	03/24/2017 09:41 AM					
HornbrookRWIS	D02-25	03/24/2017 09:43 AM					
Janesville	D02-28	03/24/2017 09:44 AM					
NorthWeedRWIS	D02-37	03/24/2017 09:48 AM					
Oregon Mtn	D02-39	03/24/2017 09:48 AM					
Perez	D02-78	03/24/2017 09:50 AM					
Sims Road	D02-49	03/24/2017 09:50 AM					
SnowmanRWIS	D02-51	03/24/2017 09:53 AM					
Spring Garden	D02-53	03/24/2017 09:53 AM					
Vollmers	D02-61	03/24/2017 09:43 AM					
Weed Airport	D02-64	03/24/2017 09:45 AM					



# D2 Graphical Overview

Station Name	ID	Last Updated	One-Hour Precipitation	Precipitation Situation
Anderson Grade	D02-02	03/24/2017 09:46 AM		
Anderson Grade Summit	D02-81	03/24/2017 09:46 AM		
Antlers SmtRWIS	D02-04	03/24/2017 09:46 AM		
Black Butte	D02-06	03/24/2017 09:52 AM		
Bogard	D02-07	03/24/2017 09:46 AM		
Buckhorn	D02-08	03/24/2017 09:40 AM		
Doyle	D02-13	03/24/2017 09:49 AM		
Dunsmuir	D02-14	03/24/2017 09:51 AM		
Fredonyer Smt	D02-19	03/24/2017 09:52 AM		
FredonyerEastRWIS	D02-20	03/24/2017 09:39 AM		
Hatchet Mtn	D02-22	03/24/2017 09:50 AM		
HiltRWIS	D02-24	03/24/2017 09:41 AM		
HornbrookRWIS	D02-25	03/24/2017 09:43 AM		
Janesville	D02-28	03/24/2017 09:44 AM		
NorthWeedRWIS	D02-37	03/24/2017 09:48 AM		
Oregon Mtn	D02-39	03/24/2017 09:48 AM		
Perez	D02-78	03/24/2017 09:50 AM		
Sims Road	D02-49	03/24/2017 09:50 AM		
SnowmanRWIS	D02-51	03/24/2017 09:53 AM		
Spring Garden	D02-53	03/24/2017 09:53 AM		
Vollmers	D02-61	03/24/2017 09:43 AM		
Weed Airport	D02-64	03/24/2017 09:45 AM		

# D3 Graphical Overview

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Links	Station Name	ID	Last Updated	Air Temperature	Dewpoint	Relative Humidity	Average Wind	Wind Gust	One-Hour Precipitation	Precipitation Situation	Alerts
<a href="#">graphs historical summary</a>	Hwy 267 at Brockway Summit	D03-06	03/24/2017 09:46 AM								Alerts
<a href="#">graphs historical summary</a>	Hwy 267 at Truckee Bypass	D03-07	02/25/2016 06:45 AM								Alerts
<a href="#">graphs historical summary</a>	Hwy 28 at Dollar	D03-18	02/10/2017 07:13 AM								Alerts
<a href="#">graphs historical summary</a>	Hwy 5 at Elkhorn	D03-14	03/24/2017 09:45 AM								Alerts
<a href="#">graphs historical summary</a>	Hwy 5 at Richards	D03-15	03/24/2017 09:46 AM								Alerts
<a href="#">graphs historical summary</a>	Hwy 50 at Echo Summit	D03-05	10/12/2016 01:02 PM								Alerts
<a href="#">graphs historical summary</a>	Hwy 51 at Exposition	D03-13	02/25/2016 06:44 AM								Alerts
<a href="#">graphs historical summary</a>	Hwy 80 at Blue Canyon	D03-01	03/24/2017 09:47 AM								Alerts
<a href="#">graphs historical summary</a>	Hwy 80 at Cisco Grove	D03-02	01/01/2017 11:35 PM								Alerts
<a href="#">graphs historical summary</a>	Hwy 80 at Donner Lake	D03-04	03/24/2017 09:51 AM								Alerts
<a href="#">graphs historical summary</a>	Hwy 80 at Donner Summit	D03-03	02/25/2016 06:40 AM								Alerts
<a href="#">graphs historical summary</a>	Hwy 80 at Floriston	D03-10	03/24/2017 09:53 AM								Alerts
<a href="#">graphs historical summary</a>	Hwy 80 at Truckee Scales	D03-09	03/24/2017 09:39 AM								Alerts
<a href="#">graphs historical summary</a>	Hwy 89 at Rampart	D03-17	03/24/2017 09:45 AM								Alerts
<a href="#">graphs historical summary</a>	Hwy 99 at McConnell	D03-16	03/24/2017 09:46 AM								Alerts
<a href="#">graphs historical summary</a>	Hwy 80 at Bryte Bend	D03-11	02/25/2016 06:37 AM								Alerts
<a href="#">graphs historical summary</a>	Hwy 80 at Chiles	D03-08	02/24/2016 06:10 PM								Alerts



# D3 Graphical Overview

Links	Station Name	ID	Last Updated	Air Temperature	Dewpoint	Relative Humidity
<a href="#">graphs historical summary</a>	Hwy 267 at Brockway Summit	D03-06	03/24/2017 09:46 AM			
<a href="#">graphs historical summary</a>	Hwy 267 at Truckee Bypass	D03-07	02/25/2016 06:45 AM			
<a href="#">graphs historical summary</a>	Hwy 28 at Dollar	D03-18	02/10/2017 07:13 AM			
<a href="#">graphs historical summary</a>	Hwy 5 at Elkhorn	D03-14	03/24/2017 09:45 AM			
<a href="#">graphs historical summary</a>	Hwy 5 at Richards	D03-15	03/24/2017 09:46 AM			
<a href="#">graphs historical summary</a>	Hwy 50 at Echo Summit	D03-05	10/12/2016 01:02 PM			
<a href="#">graphs historical summary</a>	Hwy 51 at Exposition	D03-13	02/25/2016 06:44 AM			
<a href="#">graphs historical summary</a>	Hwy 80 at Blue Canyon	D03-01	03/24/2017 09:47 AM			
<a href="#">graphs historical summary</a>	Hwy 80 at Cisco Grove	D03-02	01/01/2017 11:35 PM			
<a href="#">graphs historical summary</a>	Hwy 80 at Donner Lake	D03-04	03/24/2017 09:51 AM			
<a href="#">graphs historical summary</a>	Hwy 80 at Donner Summit	D03-03	02/25/2016 06:40 AM			
<a href="#">graphs historical summary</a>	Hwy 80 at Floriston	D03-10	03/24/2017 09:53 AM			
<a href="#">graphs historical summary</a>	Hwy 80 at Truckee Scales	D03-09	03/24/2017 09:39 AM			
<a href="#">graphs historical summary</a>	Hwy 89 at Rampart	D03-17	03/24/2017 09:45 AM			
<a href="#">graphs historical summary</a>	Hwy 99 at McConnell	D03-16	03/24/2017 09:46 AM			
<a href="#">graphs historical summary</a>	<i>Hwy 80 at Bryte Bend</i>	<i>D03-11</i>	02/25/2016 06:37 AM			
<a href="#">graphs historical summary</a>	<i>Hwy 80 at Chiles</i>	<i>D03-08</i>	02/24/2016 06:10 PM			

# D3 Graphical Overview

Station Name	ID	Last Updated	Average Wind	Wind Gust
Hwy 267 at Brockway Summit	D03-06	03/24/2017 09:46 AM		
Hwy 267 at Truckee Bypass	D03-07	02/25/2016 06:45 AM		
Hwy 28 at Dollar	D03-18	02/10/2017 07:13 AM		
Hwy 5 at Elkhorn	D03-14	03/24/2017 09:45 AM		
Hwy 5 at Richards	D03-15	03/24/2017 09:46 AM		
Hwy 50 at Echo Summit	D03-05	10/12/2016 01:02 PM		
Hwy 51 at Exposition	D03-13	02/25/2016 06:44 AM		
Hwy 80 at Blue Canyon	D03-01	03/24/2017 09:47 AM		
Hwy 80 at Cisco Grove	D03-02	01/01/2017 11:35 PM		
Hwy 80 at Donner Lake	D03-04	03/24/2017 09:51 AM		
Hwy 80 at Donner Summit	D03-03	02/25/2016 06:40 AM		
Hwy 80 at Floriston	D03-10	03/24/2017 09:53 AM		
Hwy 80 at Truckee Scales	D03-09	03/24/2017 09:39 AM		
Hwy 89 at Rampart	D03-17	03/24/2017 09:45 AM		
Hwy 99 at McConnell	D03-16	03/24/2017 09:46 AM		
<i>Hwy 80 at Bryte Bend</i>	<i>D03-11</i>	<i>02/25/2016 06:37 AM</i>		
<i>Hwy 80 at Chiles</i>	<i>D03-08</i>	<i>02/24/2016 06:10 PM</i>		

# D3 Graphical Overview

Station Name	ID	Last Updated	One-Hour Precipitation	Precipitation Situation
Hwy 267 at Brockway Summit	D03-06	03/24/2017 09:46 AM		
Hwy 267 at Truckee Bypass	D03-07	02/25/2016 06:45 AM		
Hwy 28 at Dollar	D03-18	02/10/2017 07:13 AM		
Hwy 5 at Elkhorn	D03-14	03/24/2017 09:45 AM		
Hwy 5 at Richards	D03-15	03/24/2017 09:46 AM		
Hwy 50 at Echo Summit	D03-05	10/12/2016 01:02 PM		
Hwy 51 at Exposition	D03-13	02/25/2016 06:44 AM		
Hwy 80 at Blue Canyon	D03-01	03/24/2017 09:47 AM		
Hwy 80 at Cisco Grove	D03-02	01/01/2017 11:35 PM		
Hwy 80 at Donner Lake	D03-04	03/24/2017 09:51 AM		
Hwy 80 at Donner Summit	D03-03	02/25/2016 06:40 AM		
Hwy 80 at Floriston	D03-10	03/24/2017 09:53 AM		
Hwy 80 at Truckee Scales	D03-09	03/24/2017 09:39 AM		
Hwy 89 at Rampart	D03-17	03/24/2017 09:45 AM		
Hwy 99 at McConnell	D03-16	03/24/2017 09:46 AM		
<i>Hwy 80 at Bryte Bend</i>	<i>D03-11</i>	<i>02/25/2016 06:37 AM</i>		
<i>Hwy 80 at Chiles</i>	<i>D03-08</i>	<i>02/24/2016 06:10 PM</i>		



# Site Summary

Current Conditions: Bogard

Timestamp: 03/24/2017 09:46 AM

[Historical Data](#)

[Detailed Graphs](#)

[Station List](#)

## Nearest CCTV (0.0 mi N)



## Location

Near	Susanville
Longitude	-121.08870°
Latitude	40.58548°
Elevation	5629 ft
Direction	East
County	Lassen
Route	SR-44
Milepost	84.31

## Temperature

Air	32.18 °F
Wet Bulb	30.74 °F
Dewpoint	28.22 °F
24-hr Max	44.60 °F
24-hr Min	30.92 °F
Avg	3.36 mph from SE
Spot	2.46 mph from SE
Max	8.5 mph

## Precipitation

Y/N	ERROR
Situation	Error:Lookup
Rate	x
1 hr	0.031 in
3 hr	0.055 in
6 hr	0.079 in
12 hr	0.079 in
24 hr	0.079 in
Start	
End	

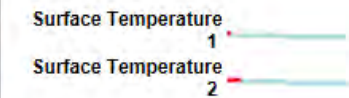
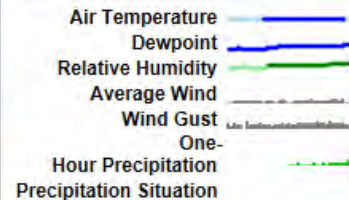
## Visibility

Visibility	Not Reported
Visibility Situation	Not Reported

## Other

Relative Humidity	85%
Atmospheric Pressure	Not Reported

## Graphical Summary for 03/24/2017 12:00 AM through 09:46 AM



## Surface Sensors

Sensor #	1	2
Surface Status	Trace Moisture	Trace Moisture
Surface Temperature	32.72 °F	32.72 °F
Pavement Temperature		
Surface Water Depth		
Surface Salinity	x	x
Surface Freeze Point	x	x
Surface Black Ice Signal	Other	Other

# Historical Atmospheric Data

Timestamp Date Time	Temperature					Relative Humidity %	Atmospheric Pressure in Hg	Wind						Precipitation										Visibility	
	Air °F	Wet Bulb °F	Dew- point °F	24- hr Max °F	24- hr Min °F			Avg Speed mph	Avg Dir °	Spot Speed mph	Spot Dir °	Max Speed mph	Max Dir °	Rate Y/N	Situation in/hr	Start Date Time	End Date Time	1 hr in	3 hr in	6 hr in	12 hr in	24 hr in	Situation mi	Situation text	
03/24/2017 12:02 AM	33.44	29.30	19.58	44.60	20.30	56.0	Not Reported	4.25	SE	6.71	E	14.54	E	x	x ErrorLookup			0.000	0.000	0.000	0.000	0.000	Not Reported	Not Reported	
03/24/2017 12:16 AM	33.26	29.12	19.58	44.60	20.30	56.0	Not Reported	2.01	SE	1.57	E	7.16	SE	x	x ErrorLookup			0.000	0.000	0.000	0.000	0.000	Not Reported	Not Reported	
03/24/2017 12:32 AM	33.44	29.12	19.40	44.60	20.30	55.0	Not Reported	6.04	SE	2.46	E	15.21	SW	x	x ErrorLookup			0.000	0.000	0.000	0.000	0.000	Not Reported	Not Reported	
03/24/2017 12:47 AM	33.08	29.12	20.12	44.60	20.30	58.0	Not Reported	6.93	SE	4.92	S	10.29	S	x	x ErrorLookup			0.000	0.000	0.000	0.000	0.000	Not Reported	Not Reported	
03/24/2017 01:02 AM	32.90	28.94	19.76	44.60	20.30	57.0	Not Reported	5.59	S	4.70	SE	10.51	SE	x	x ErrorLookup			0.000	0.000	0.000	0.000	0.000	Not Reported	Not Reported	
03/24/2017 01:17 AM	32.54	28.76	19.40	44.60	20.30	57.0	Not Reported	8.50	S	8.05	S	x	S	x	x ErrorLookup			0.000	0.000	0.000	0.000	0.000	Not Reported	Not Reported	
03/24/2017 01:33 AM	32.72	28.76	18.86	44.60	20.30	56.0	Not Reported	6.26	SE	8.95	SE	18.12	S	x	x ErrorLookup			0.000	0.000	0.000	0.000	0.000	Not Reported	Not Reported	
03/24/2017 01:47 AM	32.54	28.40	18.50	44.60	20.30	55.0	Not Reported	5.37	S	2.68	SE	10.96	SE	x	x ErrorLookup			0.000	0.000	0.000	0.000	0.000	Not Reported	Not Reported	
03/24/2017 02:03 AM	32.54	28.40	17.96	44.60	20.30	54.0	Not Reported	7.16	S	4.92	SE	11.63	SE	x	x ErrorLookup			0.000	0.000	0.000	0.000	0.000	Not Reported	Not Reported	
03/24/2017 02:17 AM	32.54	28.22	17.60	44.60	20.30	53.0	Not Reported	5.37	SE	3.58	S	12.53	SE	x	x ErrorLookup			0.000	0.000	0.000	0.000	0.000	Not Reported	Not Reported	
03/24/2017 02:32 AM	32.36	28.22	18.32	44.60	20.30	56.0	Not Reported	5.14	SE	3.36	SE	14.09	S	x	x ErrorLookup			0.000	0.000	0.000	0.000	0.000	Not Reported	Not Reported	
03/24/2017 02:47 AM	31.82	28.22	19.94	44.60	20.30	61.0	Not Reported	4.92	SE	5.37	SE	10.07	SE	x	x ErrorLookup			0.000	0.000	0.000	0.000	0.000	Not Reported	Not Reported	
03/24/2017 03:05 AM	31.46	28.40	21.56	44.60	20.30	66.0	Not Reported	5.82	SE	7.61	S	10.96	S	x	x ErrorLookup			0.000	0.000	0.000	0.000	0.000	Not Reported	Not Reported	
03/24/2017 03:17 AM	31.28	28.40	22.64	44.60	20.30	70.0	Not Reported	5.37	SE	6.04	SE	10.29	SW	x	x ErrorLookup			0.000	0.000	0.000	0.000	0.000	Not Reported	Not Reported	
03/24/2017 03:32 AM	31.46	28.76	23.36	44.60	20.30	71.0	Not Reported	5.37	SE	6.49	SE	8.28	S	x	x ErrorLookup			0.000	0.000	0.000	0.000	0.000	Not Reported	Not Reported	
03/24/2017 03:48 AM	31.46	28.94	23.90	44.60	20.30	73.0	Not Reported	4.47	E	10.07	SE	12.75	SE	x	x ErrorLookup			0.000	0.000	0.000	0.000	0.000	Not Reported	Not Reported	
03/24/2017 04:04 AM	31.46	28.94	24.08	44.60	20.30	74.0	Not Reported	5.59	SE	6.04	SE	12.53	S	x	x ErrorLookup			0.000	0.000	0.000	0.000	0.000	Not Reported	Not Reported	
03/24/2017 04:17 AM	31.46	29.12	24.44	44.60	20.30	75.0	Not Reported	9.17	S	10.51	S	14.09	S	x	x ErrorLookup			0.000	0.000	0.000	0.000	0.000	Not Reported	Not Reported	
03/24/2017 04:32 AM	31.46	29.12	24.62	44.60	20.30	75.0	Not Reported	6.71	S	15.43	S	12.53	S	x	x ErrorLookup			0.000	0.000	0.000	0.000	0.000	Not Reported	Not Reported	
03/24/2017 04:47 AM	31.28	29.12	25.16	44.60	20.30	78.0	Not Reported	4.47	SE	2.68	SE	13.87	SE	x	x ErrorLookup			0.004	0.004	0.004	0.004	0.004	Not Reported	Not Reported	
03/24/2017 05:02 AM	31.10	29.12	25.70	44.60	20.30	79.0	Not Reported	4.03	SE	9.84	SE	11.18	S	x	x ErrorLookup			0.004	0.004	0.004	0.004	0.004	Not Reported	Not Reported	
03/24/2017 05:17 AM	31.10	29.12	26.06	44.60	20.30	81.0	Not Reported	6.49	SE	4.25	SE	10.96	SE	x	x ErrorLookup			0.008	0.008	0.008	0.008	0.008	Not Reported	Not Reported	
03/24/2017 05:32 AM	31.28	29.66	26.24	44.60	20.30	81.0	Not Reported	7.61	S	2.68	S	14.76	SE	x	x ErrorLookup			0.012	0.012	0.012	0.012	0.012	Not Reported	Not Reported	
03/24/2017 05:47 AM	31.46	29.48	26.06	44.60	20.30	81.0	Not Reported	6.26	SE	5.82	SE	14.54	SE	x	x ErrorLookup			0.008	0.012	0.012	0.012	0.012	Not Reported	Not Reported	
03/24/2017 06:02 AM	31.46	29.66	26.42	44.60	20.30	81.0	Not Reported	7.16	SE	5.59	SE	14.09	SE	x	x ErrorLookup			0.008	0.016	0.016	0.016	0.016	Not Reported	Not Reported	
03/24/2017 06:17 AM	31.46	29.66	26.42	44.60	20.30	81.0	Not Reported	8.28	SE	7.83	SE	14.09	SE	x	x ErrorLookup			0.008	0.016	0.016	0.016	0.016	Not Reported	Not Reported	
03/24/2017 06:33 AM	31.46	29.66	26.42	44.60	20.30	81.0	Not Reported	9.62	SE	7.61	SE	13.87	E	x	x ErrorLookup			0.004	0.016	0.016	0.016	0.016	Not Reported	Not Reported	
03/24/2017 06:47 AM	31.46	29.66	26.42	44.60	20.30	81.0	Not Reported	6.93	SE	3.36	SE	14.09	S	x	x ErrorLookup			0.012	0.024	0.024	0.024	0.024	Not Reported	Not Reported	
03/24/2017 07:01 AM	31.64	29.66	25.88	44.60	23.54	78.0	Not Reported	7.83	SE	8.28	S	17.00	SE	x	x ErrorLookup			0.008	0.024	0.024	0.024	0.024	Not Reported	Not Reported	
03/24/2017 07:17 AM	31.46	29.48	25.88	44.60	23.54	79.0	Not Reported	8.05	S	11.41	S	14.32	SE	x	x ErrorLookup			0.008	0.024	0.024	0.024	0.024	Not Reported	Not Reported	
03/24/2017 07:32 AM	31.46	29.48	26.06	44.60	23.54	80.0	Not Reported	6.71	SE	7.38	SE	15.88	SE	x	x ErrorLookup			0.012	0.031	0.031	0.031	0.031	Not Reported	Not Reported	
03/24/2017 07:46 AM	31.46	29.66	26.42	44.60	23.54	81.0	Not Reported	7.16	SE	7.83	SE	12.53	SE	x	x ErrorLookup			0.008	0.028	0.031	0.031	0.031	Not Reported	Not Reported	
03/24/2017 08:03 AM	31.28	29.48	26.60	44.60	27.68	82.0	Not Reported	7.38	E	12.08	SE	17.00	SE	Yes	x ErrorLookup			0.016	0.031	0.039	0.039	0.039	Not Reported	Not Reported	
03/24/2017 08:18 AM	31.46	29.84	26.96	44.60	27.68	83.0	Not Reported	11.41	E	9.40	E	14.09	E	x	x ErrorLookup			0.016	0.035	0.043	0.043	0.043	Not Reported	Not Reported	
03/24/2017 08:32 AM	31.46	29.66	27.14	44.60	27.68	84.0	Not Reported	12.97	E	9.62	SE	15.43	SE	x	x ErrorLookup			0.012	0.031	0.043	0.043	0.043	Not Reported	Not Reported	
03/24/2017 08:47 AM	31.46	29.84	27.32	44.60	27.68	84.0	Not Reported	7.16	E	8.28	E	14.54	E	x	x ErrorLookup			0.012	0.035	0.047	0.047	0.047	Not Reported	Not Reported	
03/24/2017 09:02 AM	31.46	30.02	27.68	44.60	30.92	85.0	Not Reported	10.29	E	10.07	E	15.88	E	x	x ErrorLookup			0.016	0.039	0.055	0.055	0.055	Not Reported	Not Reported	
03/24/2017 09:16 AM	31.82	30.38	28.04	44.60	30.92	85.0	Not Reported	4.92	SE	4.03	SE	12.75	SE	x	x ErrorLookup			0.016	0.043	0.059	0.059	0.059	Not Reported	Not Reported	
03/24/2017 09:32 AM	32.00	30.56	28.04	44.60	30.92	85.0	Not Reported	4.92	SE	7.61	SE	9.17	SE	x	x ErrorLookup			0.028	0.051	0.071	0.071	0.071	Not Reported	Not Reported	
03/24/2017 09:46 AM	32.18	30.74	28.22	44.60	30.92	85.0	Not Reported	3.36	SE	2.46	SE	8.50	SE	x	x ErrorLookup			0.031	0.055	0.079	0.079	0.079	Not Reported	Not Reported	

Timestamp Date Time	Temperature					Relative Humidity %	Atmospheric Pressure in Hg	Wind						Precipitation									
	Air °F	Wet Bulb °F	Dew- point °F	24- hr Max °F	24- hr Min °F			Avg Speed mph	Avg Dir °	Spot Speed mph	Spot Dir °	Max Speed mph	Max Dir °	Y/N	Rate in/hr	Situation text	Start Date Time	End Date Time	1 hr in	3 hr in	6 hr in	12 hr in	24 hr in
03/24/2017 04:04 AM	31.46	28.94	24.08	44.60	20.30	74.0	Not Reported	5.59	SE	6.04	SE	12.53	S	x	x	Error:Lookup			0.000	0.000	0.000	0.000	0.000
03/24/2017 04:17 AM	31.46	29.12	24.44	44.60	20.30	75.0	Not Reported	9.17	S	10.51	S	14.09	S	x	x	Error:Lookup			0.000	0.000	0.000	0.000	0.000
03/24/2017 04:32 AM	31.46	29.12	24.62	44.60	20.30	75.0	Not Reported	6.71	S	15.43	S	12.53	S	x	x	Error:Lookup			0.000	0.000	0.000	0.000	0.000
03/24/2017 04:47 AM	31.28	29.12	25.16	44.60	20.30	78.0	Not Reported	4.47	SE	2.68	SE	13.87	SE	x	x	Error:Lookup			0.004	0.004	0.004	0.004	0.004
03/24/2017 05:02 AM	31.10	29.12	25.70	44.60	20.30	79.0	Not Reported	4.03	SE	9.84	SE	11.18	S	x	x	Error:Lookup			0.004	0.004	0.004	0.004	0.004
03/24/2017 05:17 AM	31.10	29.12	26.06	44.60	20.30	81.0	Not Reported	6.49	SE	4.25	SE	10.96	SE	x	x	Error:Lookup			0.008	0.008	0.008	0.008	0.008
03/24/2017 05:32 AM	31.28	29.66	26.24	44.60	20.30	81.0	Not Reported	7.61	S	2.68	S	14.76	SE	x	x	Error:Lookup			0.012	0.012	0.012	0.012	0.012
03/24/2017 05:47 AM	31.46	29.48	26.06	44.60	20.30	81.0	Not Reported	6.26	SE	5.82	SE	14.54	SE	x	x	Error:Lookup			0.008	0.012	0.012	0.012	0.012

## Historical Atmospheric Data

Temperature				
Air °F	Wet Bulb °F	Dew- point °F	24- hr Max °F	24- hr Min °F
31.46	28.94	24.08	44.60	20.30
31.46	29.12	24.44	44.60	20.30
31.46	29.12	24.62	44.60	20.30
31.28	29.12	25.16	44.60	20.30
31.10	29.12	25.70	44.60	20.30
31.10	29.12	26.06	44.60	20.30
31.28	29.66	26.24	44.60	20.30
31.46	29.48	26.06	44.60	20.30

Wind					
Avg Speed mph	Avg Dir °	Spot Speed mph	Spot Dir °	Max Speed mph	Max Dir °
5.59	SE	6.04	SE	12.53	S
9.17	S	10.51	S	14.09	S
6.71	S	15.43	S	12.53	S
4.47	SE	2.68	SE	13.87	SE
4.03	SE	9.84	SE	11.18	S
6.49	SE	4.25	SE	10.96	SE
7.61	S	2.68	S	14.76	SE
6.26	SE	5.82	SE	14.54	SE

1 hr in	3 hr in	6 hr in	12 hr in	24 hr in
0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000
0.004	0.004	0.004	0.004	0.004
0.004	0.004	0.004	0.004	0.004
0.008	0.008	0.008	0.008	0.008
0.012	0.012	0.012	0.012	0.012
0.008	0.012	0.012	0.012	0.012



Timestamp Date Time	Surface Status		Surface Temperature		Surface Water Depth		Surface Salinity		Surface Freeze Point		Surface Black Ice Signal		Subsurface Temperature
	1 text	2 text	1 °F	2 °F	1 in	2 in	1 pp100K	2 pp100K	1 °F	2 °F	1 text	2 text	1 °F
03/24/2017 12:02 AM	Dry	Dry	40.82	41.90	x	x	x	x	x	x	Other	Other	48.20
03/24/2017 12:16 AM	Dry	Dry	39.92	41.18	x	x	x	x	x	x	Other	Other	48.38
03/24/2017 12:32 AM	Dry	Dry	39.74	40.64	x	x	x	x	x	x	Other	Other	48.38
03/24/2017 12:47 AM	Dry	Dry	39.38	40.10	x	x	x	x	x	x	Other	Other	48.38
03/24/2017 01:02 AM	Dry	Dry	38.84	39.92	x	x	x	x	x	x	Other	Other	48.38
03/24/2017 01:17 AM	Dry	Dry	38.48	39.20	x	x	x	x	x	x	Other	Other	48.56
03/24/2017 01:33 AM	Dry	Dry	37.94	38.66	x	x	x	x	x	x	Other	Other	48.56
03/24/2017 01:47 AM	Dry	Dry	37.40	38.48	x	x	x	x	x	x	Other	Other	48.56
03/24/2017 02:03 AM	Dry	Dry	37.40	38.30	x	x	x	x	x	x	Other	Other	48.56
03/24/2017 02:17 AM	Dry	Dry	37.22	37.94	x	x	x	x	x	x	Other	Other	48.74
03/24/2017 02:32 AM	Dry	Dry	36.86	37.58	x	x	x	x	x	x	Other	Other	48.74
03/24/2017 02:47 AM	Trace Moisture	Trace Moisture	36.86	37.58	x	x	x	x	x	x	Other	Other	48.74
03/24/2017 03:05 AM	Trace Moisture	Trace Moisture	35.60	36.86	x	x	x	x	x	x	Other	Other	48.74
03/24/2017 03:17 AM	Trace Moisture	Trace Moisture	35.60	36.50	x	x	x	x	x	x	Other	Other	48.74
03/24/2017 03:32 AM	Trace Moisture	Trace Moisture	35.42	36.14	x	x	x	x	x	x	Other	Other	48.74
03/24/2017 03:48 AM	Trace Moisture	Trace Moisture	34.88	35.60	x	x	x	x	x	x	Other	Other	48.74
03/24/2017 04:04 AM	Trace Moisture	Trace Moisture	34.34	35.06	x	x	x	x	x	x	Other	Other	48.74
03/24/2017 04:17 AM	Trace Moisture	Trace Moisture	34.16	34.88	x	x	x	x	x	x	Other	Other	48.74
03/24/2017 04:32 AM	Trace Moisture	Trace Moisture	33.98	34.70	x	x	x	x	x	x	Other	Other	48.74
03/24/2017 04:47 AM	Trace Moisture	Trace Moisture	33.26	33.98	x	x	x	x	x	x	Other	Other	48.74
03/24/2017 05:02 AM	Trace Moisture	Trace Moisture	32.90	33.26	x	x	x	x	x	x	Other	Other	48.92
03/24/2017 05:17 AM	Trace Moisture	Trace Moisture	32.90	32.90	x	x	x	x	x	x	Other	Other	48.74
03/24/2017 05:32 AM	Trace Moisture	Trace Moisture	32.90	33.26	x	x	x	x	x	x	Other	Other	48.74
03/24/2017 05:47 AM	Trace Moisture	Trace Moisture	32.72	32.90	x	x	x	x	x	x	Other	Other	48.74
03/24/2017 06:02 AM	Trace Moisture	Trace Moisture	32.90	33.08	x	x	x	x	x	x	Other	Other	48.74
03/24/2017 06:17 AM	Trace Moisture	Trace Moisture	32.72	32.72	x	x	x	x	x	x	Other	Other	48.74
03/24/2017 06:33 AM	Trace Moisture	Trace Moisture	32.72	32.90	x	x	x	x	x	x	Other	Other	48.74
03/24/2017 06:47 AM	Trace Moisture	Trace Moisture	32.72	32.90	x	x	x	x	x	x	Other	Other	48.74
03/24/2017 07:01 AM	Trace Moisture	Trace Moisture	32.72	32.72	x	x	x	x	x	x	Other	Other	48.74
03/24/2017 07:17 AM	Trace Moisture	Trace Moisture	32.72	32.90	x	x	x	x	x	x	Other	Other	48.74
03/24/2017 07:32 AM	Trace Moisture	Trace Moisture	32.72	32.72	x	x	x	x	x	x	Other	Other	48.74
03/24/2017 07:46 AM	Trace Moisture	Trace Moisture	32.72	32.72	x	x	x	x	x	x	Other	Other	48.74
03/24/2017 08:03 AM	Trace Moisture	Trace Moisture	32.72	32.72	x	x	x	x	x	x	Other	Other	48.74
03/24/2017 08:18 AM	Trace Moisture	Trace Moisture	32.54	32.72	x	x	x	x	x	x	Other	Other	48.56
03/24/2017 08:32 AM	Trace Moisture	Trace Moisture	32.72	32.72	x	x	x	x	x	x	Other	Other	48.56
03/24/2017 08:47 AM	Trace Moisture	Trace Moisture	32.72	32.72	x	x	x	x	x	x	Other	Other	48.56
03/24/2017 09:02 AM	Trace Moisture	Trace Moisture	32.72	32.72	x	x	x	x	x	x	Other	Other	48.56
03/24/2017 09:16 AM	Trace Moisture	Trace Moisture	32.72	32.72	x	x	x	x	x	x	Other	Other	48.56
03/24/2017 09:32 AM	Trace Moisture	Trace Moisture	32.72	32.72	x	x	x	x	x	x	Other	Other	48.38
03/24/2017 09:46 AM	Trace Moisture	Trace Moisture	32.72	32.72	x	x	x	x	x	x	Other	Other	48.38

# Historical Surface Data

# Historical Surface Data

Timestamp Date Time	Surface Status		Surface Temperature		Surface Water Depth		Surface Salinity		Surface Freeze Point		Surface Black Ice Signal		Subsurface Temperature
	1 text	2 text	1 °F	2 °F	1 in	2 in	1 pp100K	2 pp100K	1 °F	2 °F	1 text	2 text	1 °F
03/24/2017 12:02 AM	Dry	Dry	40.82	41.90	x	x	x	x	x	x	Other	Other	48.20
03/24/2017 12:16 AM	Dry	Dry	39.92	41.18	x	x	x	x	x	x	Other	Other	48.38
03/24/2017 12:32 AM	Dry	Dry	39.74	40.64	x	x	x	x	x	x	Other	Other	48.38
03/24/2017 12:47 AM	Dry	Dry	39.38	40.10	x	x	x	x	x	x	Other	Other	48.38
03/24/2017 01:02 AM	Dry	Dry	38.84	39.92	x	x	x	x	x	x	Other	Other	48.38
03/24/2017 01:17 AM	Dry	Dry	38.48	39.20	x	x	x	x	x	x	Other	Other	48.56
03/24/2017 01:33 AM	Dry	Dry	37.94	38.66	x	x	x	x	x	x	Other	Other	48.56
03/24/2017 01:47 AM	Dry	Dry	37.40	38.48	x	x	x	x	x	x	Other	Other	48.56
03/24/2017 02:03 AM	Dry	Dry	37.40	38.30	x	x	x	x	x	x	Other	Other	48.56
03/24/2017 02:17 AM	Dry	Dry	37.22	37.94	x	x	x	x	x	x	Other	Other	48.74
03/24/2017 02:32 AM	Dry	Dry	36.86	37.58	x	x	x	x	x	x	Other	Other	48.74
03/24/2017 02:47 AM	Trace Moisture	Trace Moisture	36.86	37.58	x	x	x	x	x	x	Other	Other	48.74
03/24/2017 03:05 AM	Trace Moisture	Trace Moisture	35.60	36.86	x	x	x	x	x	x	Other	Other	48.74
03/24/2017 03:17 AM	Trace Moisture	Trace Moisture	35.60	36.50	x	x	x	x	x	x	Other	Other	48.74
03/24/2017 03:32 AM	Trace Moisture	Trace Moisture	35.42	36.14	x	x	x	x	x	x	Other	Other	48.74
03/24/2017 03:48 AM	Trace Moisture	Trace Moisture	34.88	35.60	x	x	x	x	x	x	Other	Other	48.74

Temperature

Air Temperature

Air Temperature and Dewpoint

Precipitation

Precipitation

Humidity

Precipitation Situation

Wind

Average Wind Speed

Wind Gust

Average and Gust Wind Speed

Average and Gust Wind Direction

Surface Sensors

Surface Temperature 1

Surface Status 1

Surface Temperature 2

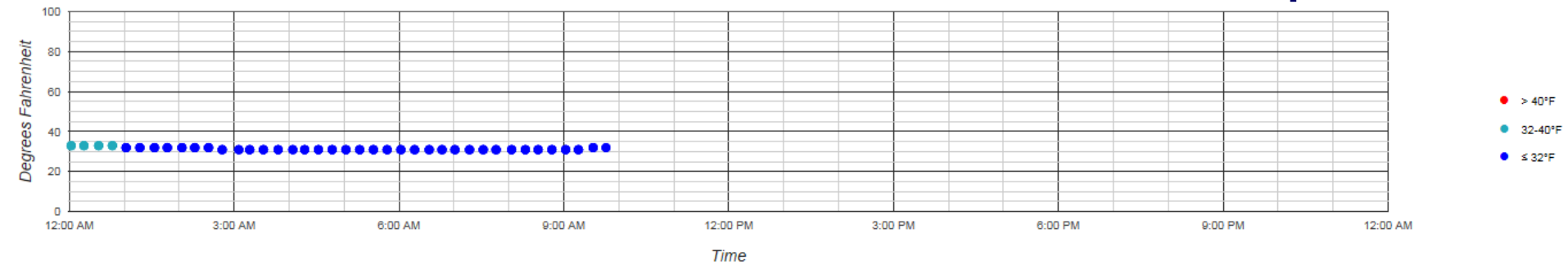
Surface Status 2

Surface Temperature All

# Detailed Graphs

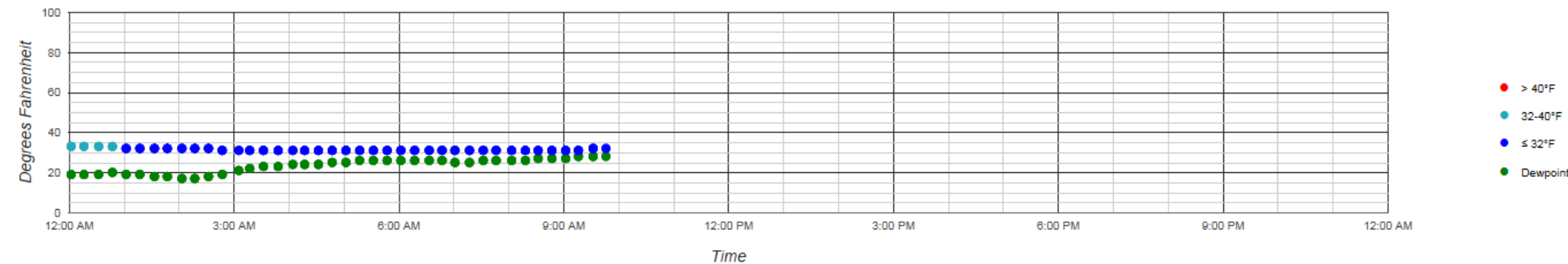
[TOP](#)

## Air Temperature



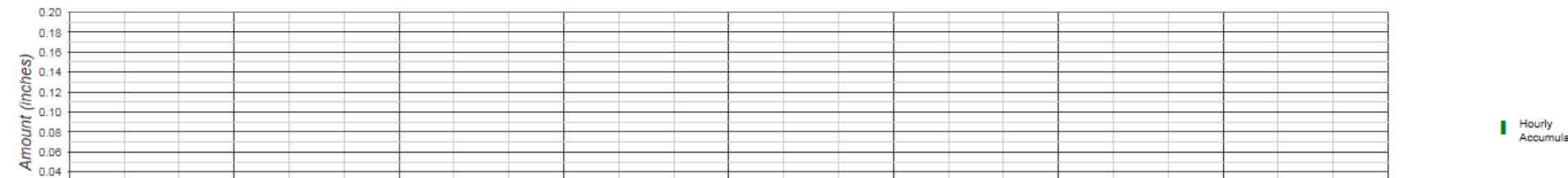
## Air Temperature and Dewpoint

[TOP](#)



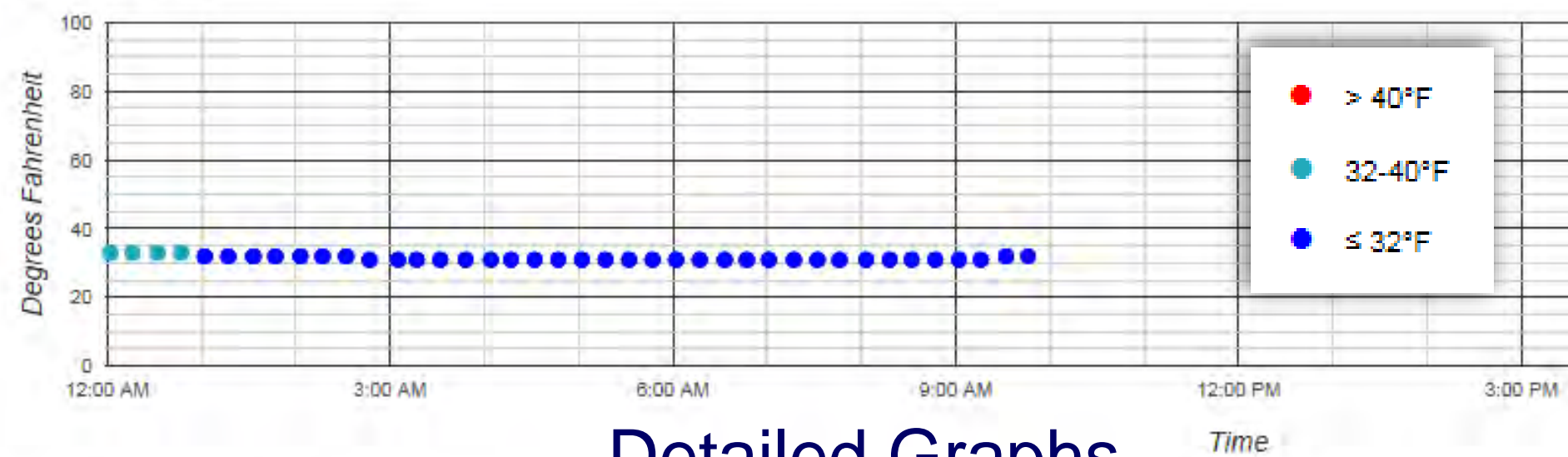
## Precipitation

[TOP](#)



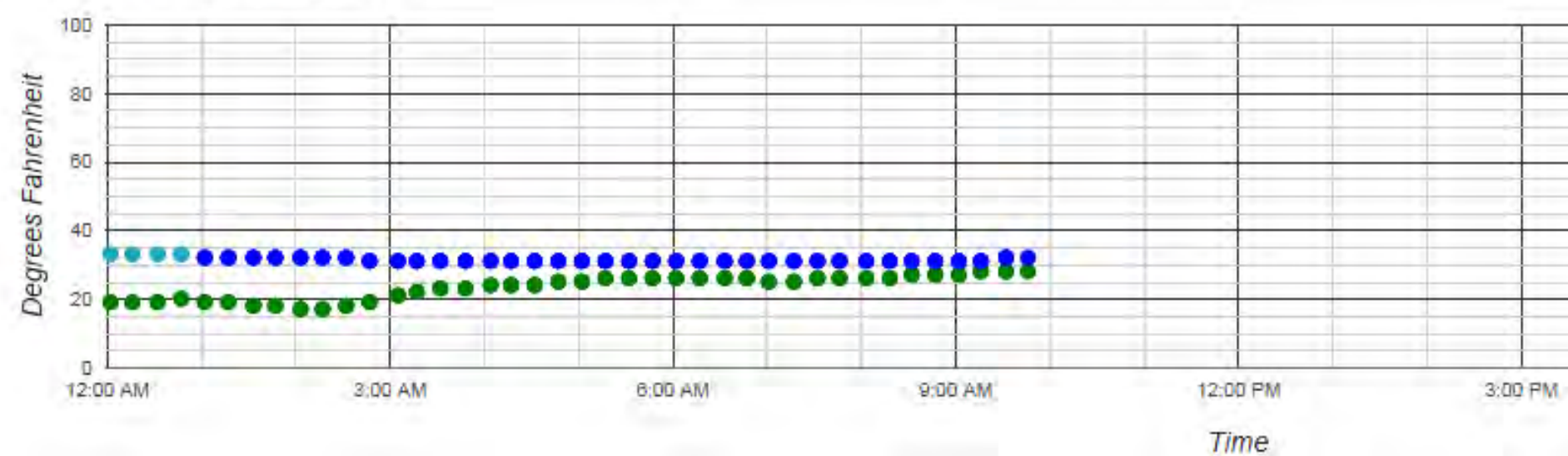


Air Temperature



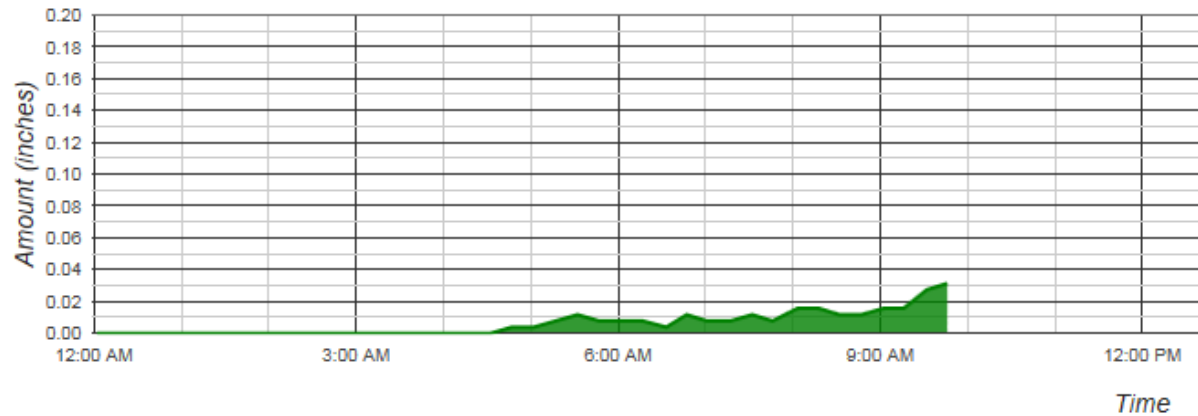
Detailed Graphs

Air Temperature and Dewpoint



# Detailed Graphs

**Precipitation**



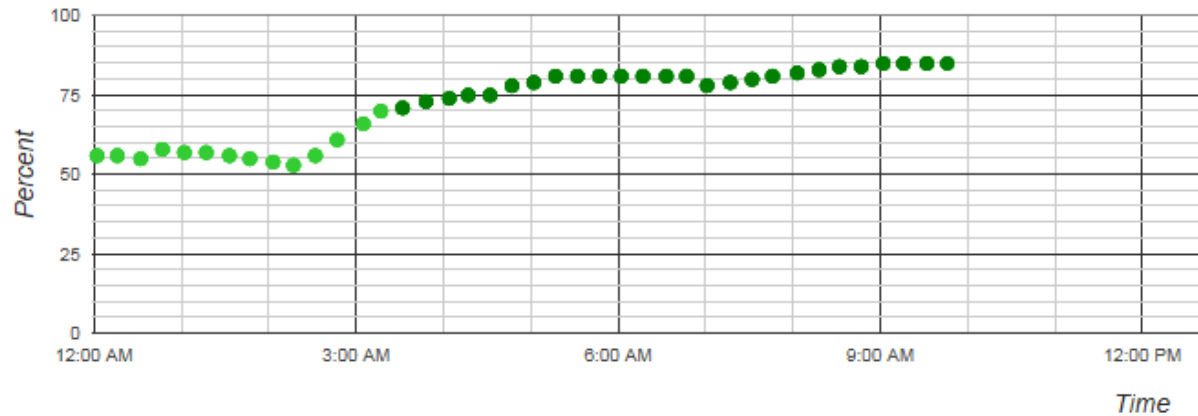
Hourly Accumulation

**Precipitation Situation**

12:00 AM 3:00 AM 6:00 AM

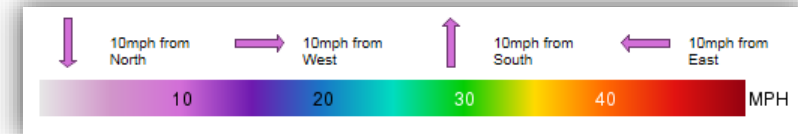
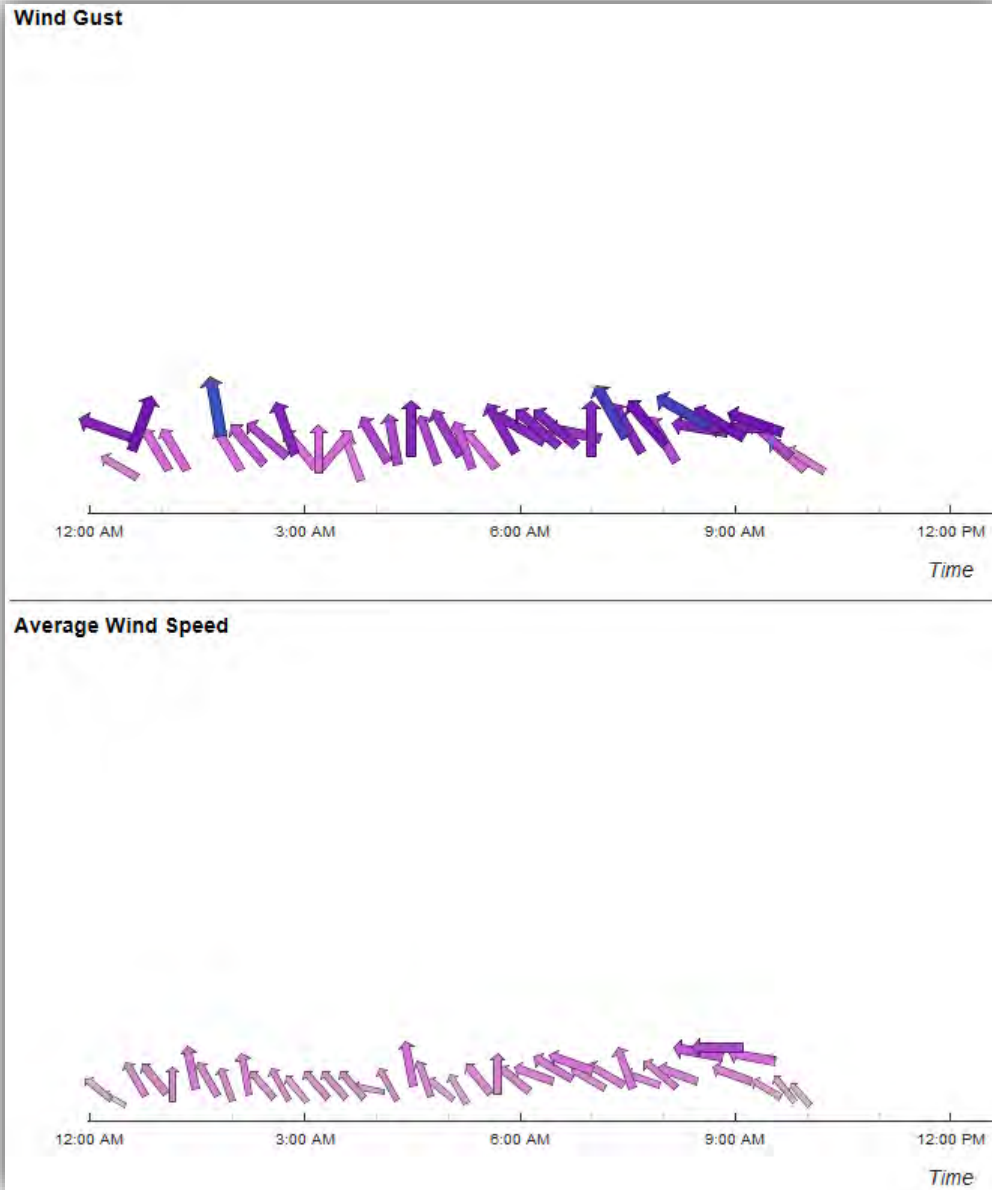


**Humidity**



● > 70%  
 ● 30-70%  
 ● 10-30%  
 ● ≤ 10%

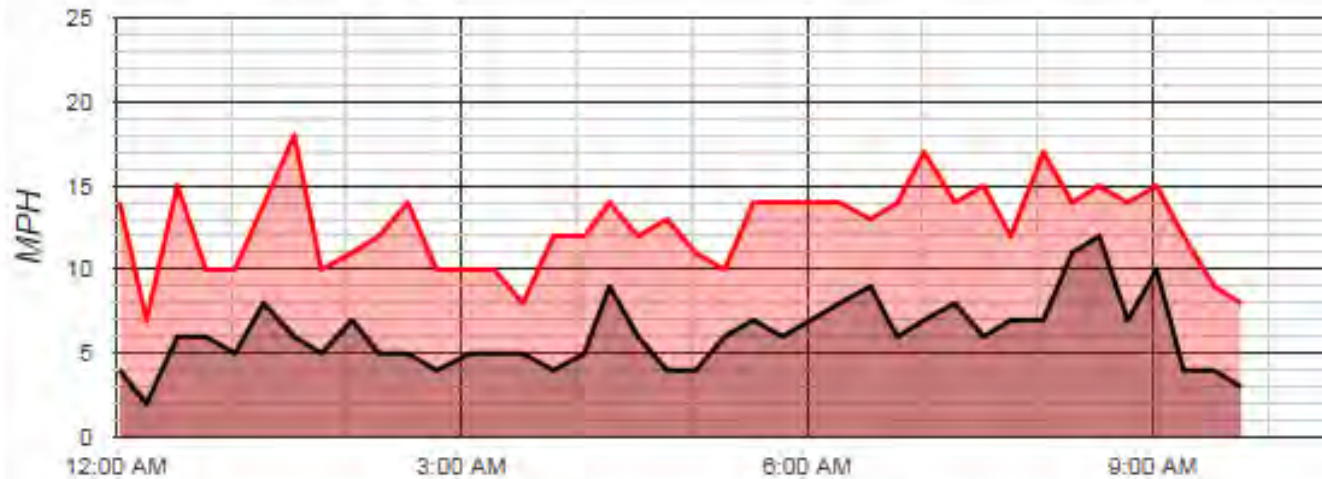
# Detailed Graphs





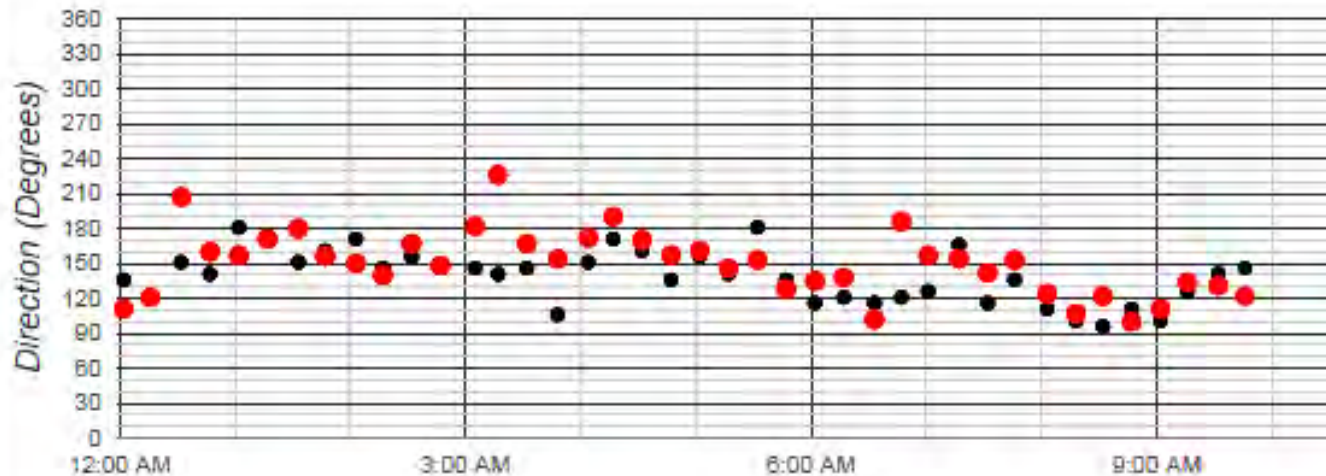
# Detailed Graphs

## Average and Gust Wind Speed



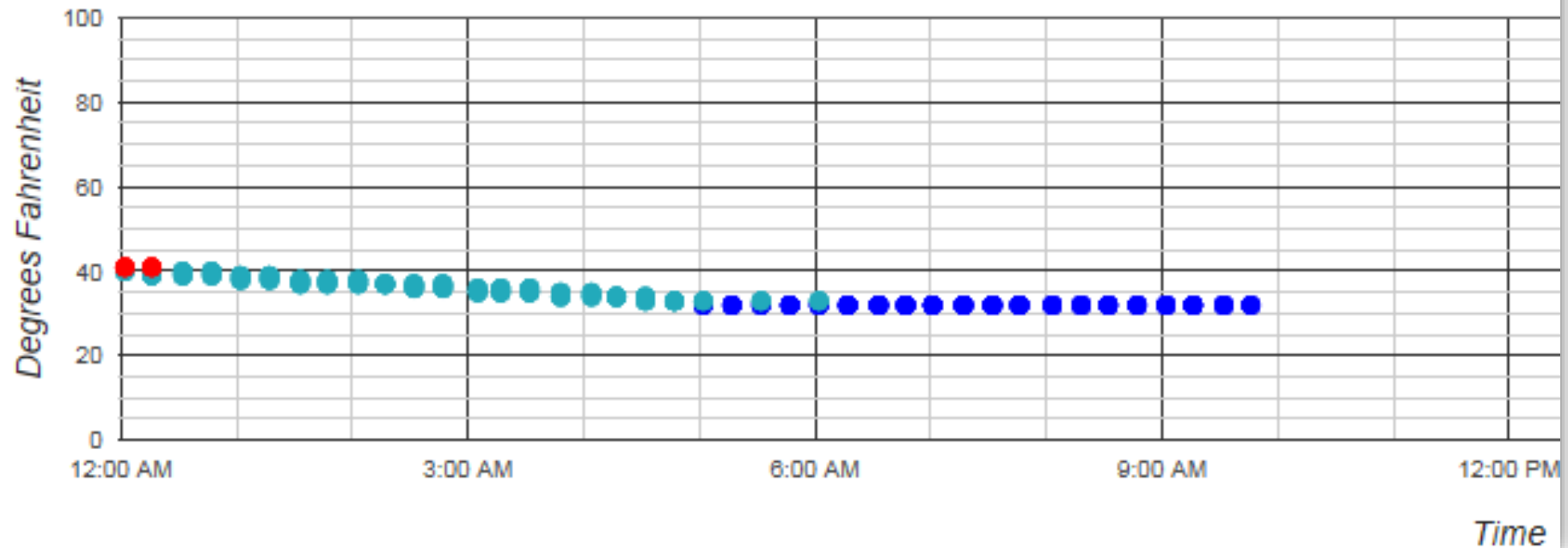
- Gust
- Average

## Average and Gust Wind Direction



# Detailed Graphs

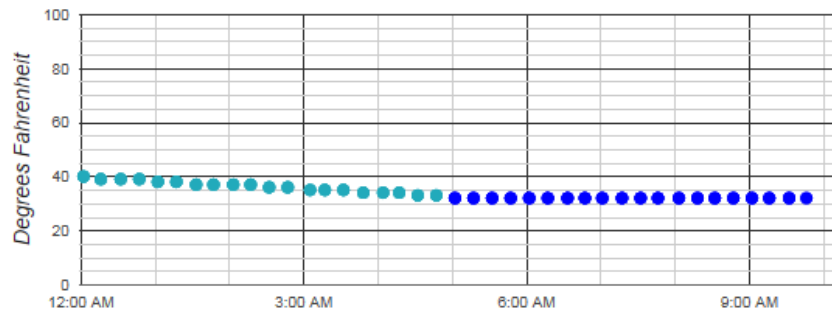
Surface Temperature All



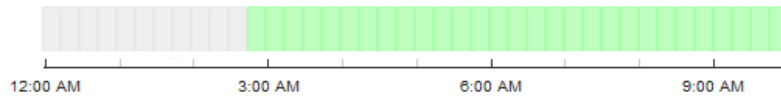
- > 40°F
- 32-40°F
- ≤ 32°F

# Detailed Graphs

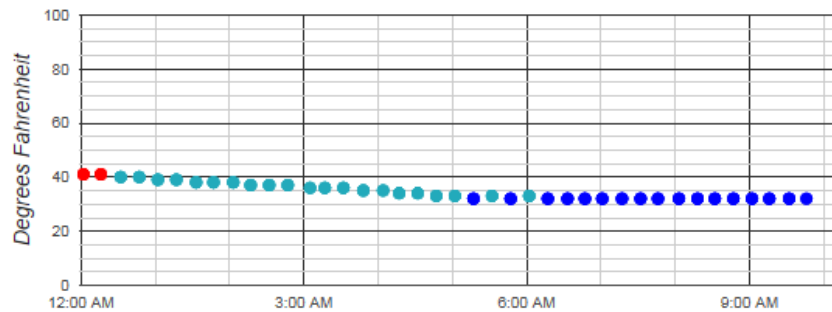
Surface Temperature 1



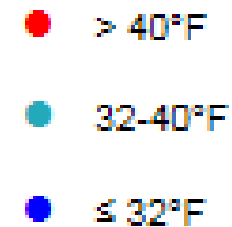
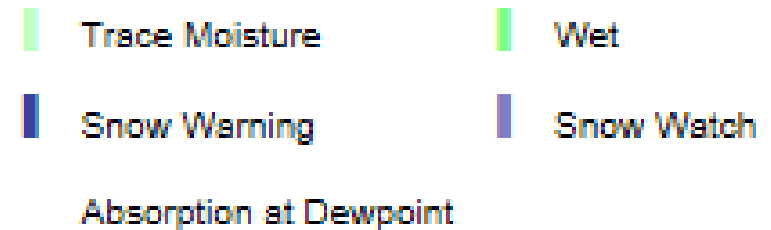
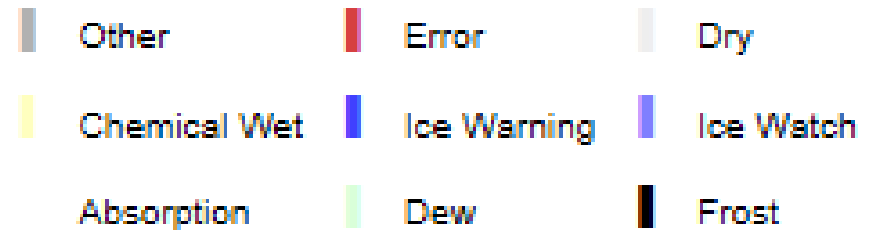
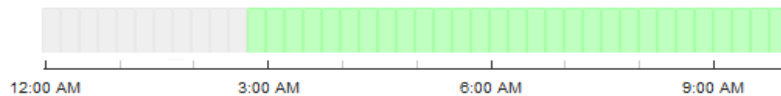
Surface Status 1



Surface Temperature 2



Surface Status 2





# Another Site Summary

## Current Conditions: Weed Airport

Timestamp: 03/24/2017 09:45 AM

[Historical Data](#)

[Detailed Graphs](#)

[Station List](#)

### Nearest CCTV (0.0 mi N)



### Location

Near	Weed
Longitude	-122.45290°
Latitude	41.47430°
Elevation	2936 ft
Direction	North
County	Siskiyou
Route	I-5
Milepost	752.73

### Temperature

Air	36.86 °F
Wet Bulb	32.00 °F
Dewpoint	21.74 °F
24-hr Max	55.40 °F
24-hr Min	35.96 °F
Avg	26.84 mph from SE
Spot	26.62 mph from SE
Max	36.91 mph

### Precipitation

Y/N	No
Situation	No Precipitation
Rate	0.000 in/hr
1 hr	0.012 in
3 hr	0.031 in
6 hr	0.043 in
12 hr	0.047 in
24 hr	0.047 in
Start	03/24/2017 09:42 AM
End	03/24/2017 09:43 AM

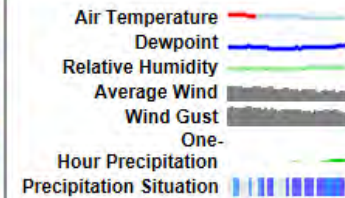
### Visibility

Visibility	Not Reported
Visibility Situation	Not Reported

### Other

Relative Humidity	54%
Atmospheric Pressure	Not Reported

### Graphical Summary for 03/24/2017 12:00 AM through 09:45 AM



# Historical Atmospheric Data

Timestamp Date Time	Temperature					Relative Humidity %	Atmospheric Pressure in Hg	Wind						Precipitation										Visibility	
	Air °F	Wet Bulb °F	Dew- point °F	24- hr Max °F	24- hr Min °F			Avg Speed mph	Avg Dir °	Spot Speed mph	Spot Dir °	Max Speed mph	Max Dir °	Rate Y/N in/hr	Situation text	Start Date Time	End Date Time	1 hr in	3 hr in	6 hr in	12 hr in	24 hr in	mi	Situation text	
03/24/2017 12:00 AM	42.62	35.60	18.68	55.40	32.00	38.0	Not Reported	39.15	SE	39.15	SE	47.87	SE	No	0.000	No Precipitation	03/23/2017 10:53 PM	03/23/2017 10:54 PM	0.000	0.000	0.000	0.000	0.000	Not Reported	Not Reported
03/24/2017 12:15 AM	42.26	35.42	19.04	55.40	32.00	39.0	Not Reported	39.15	SE	40.04	SE	52.79	SE	No	0.000	No Precipitation	03/24/2017 12:06 AM	03/24/2017 12:10 AM	0.000	0.000	0.000	0.000	0.000	Not Reported	Not Reported
03/24/2017 12:30 AM	42.08	35.24	19.40	55.40	32.00	40.0	Not Reported	39.59	SE	33.33	S	54.58	SE	No	0.000	No Precipitation	03/24/2017 12:28 AM	03/24/2017 12:29 AM	0.000	0.000	0.000	0.000	0.000	Not Reported	Not Reported
03/24/2017 12:45 AM	41.90	35.06	18.14	55.40	32.00	38.0	Not Reported	38.92	SE	45.19	SE	50.55	SE	Yes	0.000	Unidentified Slight	03/24/2017 12:44 AM		0.000	0.000	0.000	0.000	0.000	Not Reported	Not Reported
03/24/2017 01:00 AM	41.90	34.88	18.68	55.40	32.00	39.0	Not Reported	39.15	SE	42.95	SE	52.12	SE	Yes	0.000	Unidentified Slight	03/24/2017 12:59 AM		0.000	0.000	0.000	0.000	0.000	Not Reported	Not Reported
03/24/2017 01:15 AM	41.16	34.52	17.60	55.40	32.00	38.0	Not Reported	38.25	SE	35.34	SE	53.24	SE	No	0.000	No Precipitation	03/24/2017 01:06 AM	03/24/2017 01:13 AM	0.000	0.000	0.000	0.000	0.000	Not Reported	Not Reported
03/24/2017 01:30 AM	41.18	34.52	19.22	55.40	32.00	41.0	Not Reported	36.01	SE	41.16	SE	52.34	SE	No	0.000	No Precipitation	03/24/2017 01:23 AM	03/24/2017 01:24 AM	0.000	0.000	0.000	0.000	0.000	Not Reported	Not Reported
03/24/2017 01:45 AM	40.82	34.52	20.66	55.40	32.00	44.0	Not Reported	36.69	SE	41.38	SE	54.36	SE	No	0.000	No Precipitation	03/24/2017 01:38 AM	03/24/2017 01:41 AM	0.000	0.000	0.000	0.000	0.000	Not Reported	Not Reported
03/24/2017 02:00 AM	40.82	34.16	16.52	55.40	32.00	37.0	Not Reported	37.13	SE	39.82	SE	54.58	SE	Yes	0.000	Unidentified Slight	03/24/2017 01:58 AM		0.000	0.000	0.000	0.000	0.000	Not Reported	Not Reported
03/24/2017 02:15 AM	40.28	33.80	18.32	55.40	32.00	41.0	Not Reported	38.03	SE	35.57	SE	53.46	SE	No	0.000	No Precipitation	03/24/2017 02:10 AM	03/24/2017 02:14 AM	0.000	0.000	0.000	0.000	0.000	Not Reported	Not Reported
03/24/2017 02:30 AM	39.74	33.62	19.04	55.40	32.00	43.0	Not Reported	40.49	SE	38.03	SE	53.24	SE	No	0.000	No Precipitation	03/24/2017 02:26 AM	03/24/2017 02:29 AM	0.000	0.000	0.000	0.000	0.000	Not Reported	Not Reported
03/24/2017 02:45 AM	39.56	33.26	17.78	55.40	32.00	41.0	Not Reported	41.38	SE	44.74	SE	52.79	SE	Yes	0.000	Unidentified Slight	03/24/2017 02:44 AM		0.000	0.000	0.000	0.000	0.000	Not Reported	Not Reported
03/24/2017 03:00 AM	39.38	33.08	18.14	55.40	32.00	42.0	Not Reported	37.13	SE	34.67	SE	48.54	SE	Yes	0.000	Snow Slight	03/24/2017 02:56 AM		0.000	0.000	0.000	0.000	0.000	Not Reported	Not Reported
03/24/2017 03:15 AM	39.02	33.08	18.86	55.40	32.00	44.0	Not Reported	34.23	SE	40.94	SE	52.34	SE	No	0.000	No Precipitation	03/24/2017 03:13 AM	03/24/2017 03:14 AM	0.000	0.000	0.000	0.000	0.000	Not Reported	Not Reported
03/24/2017 03:30 AM	38.84	32.54	15.98	55.40	32.00	39.0	Not Reported	39.15	SE	43.40	SE	48.77	SE	Yes	0.000	Snow Slight	03/24/2017 03:26 AM		0.000	0.000	0.000	0.000	0.000	Not Reported	Not Reported
03/24/2017 03:45 AM	38.48	32.18	13.82	55.40	32.00	36.0	Not Reported	41.38	SE	41.38	SE	52.34	SE	Yes	0.000	Snow Slight	03/24/2017 03:42 AM		0.000	0.004	0.004	0.004	0.004	Not Reported	Not Reported
03/24/2017 04:00 AM	38.30	32.18	14.90	55.40	32.00	38.0	Not Reported	32.21	SE	31.32	SE	47.87	SE	No	0.000	No Precipitation	03/24/2017 03:42 AM	03/24/2017 03:52 AM	0.000	0.004	0.004	0.004	0.004	Not Reported	Not Reported
03/24/2017 04:15 AM	38.30	32.00	15.44	55.40	32.00	39.0	Not Reported	33.11	SE	30.65	SE	44.29	SE	No	0.000	No Precipitation	03/24/2017 04:13 AM	03/24/2017 04:14 AM	0.000	0.004	0.004	0.004	0.004	Not Reported	Not Reported
03/24/2017 04:30 AM	38.30	32.00	15.44	55.40	32.00	39.0	Not Reported	33.33	SE	34.23	SE	49.44	SE	No	0.000	No Precipitation	03/24/2017 04:28 AM	03/24/2017 04:29 AM	0.000	0.004	0.004	0.004	0.004	Not Reported	Not Reported
03/24/2017 04:45 AM	38.12	32.00	15.26	55.40	32.00	39.0	Not Reported	34.00	SE	32.44	SE	45.63	SE	No	0.000	No Precipitation	03/24/2017 04:35 AM	03/24/2017 04:38 AM	0.000	0.004	0.004	0.004	0.004	Not Reported	Not Reported
03/24/2017 05:00 AM	37.94	32.00	14.54	55.40	32.00	38.0	Not Reported	35.12	SE	29.75	SE	48.77	SE	Yes	0.000	Snow Slight	03/24/2017 04:56 AM		0.000	0.004	0.004	0.004	0.004	Not Reported	Not Reported
03/24/2017 05:15 AM	37.40	31.64	15.26	55.40	32.00	40.0	Not Reported	32.88	SE	27.07	SE	46.08	SE	No	0.000	No Precipitation	03/24/2017 04:56 AM	03/24/2017 05:14 AM	0.000	0.008	0.008	0.008	0.008	Not Reported	Not Reported
03/24/2017 05:30 AM	37.40	31.64	15.80	55.40	32.00	41.0	Not Reported	33.11	SE	41.83	SE	48.99	SE	Yes	0.000	Snow Slight	03/24/2017 05:29 AM		0.004	0.008	0.008	0.008	0.008	Not Reported	Not Reported
03/24/2017 05:45 AM	37.22	31.64	16.16	55.40	32.00	42.0	Not Reported	30.65	SE	27.07	SE	47.87	SE	Yes	0.000	Snow Slight	03/24/2017 05:44 AM		0.004	0.008	0.008	0.008	0.008	Not Reported	Not Reported
03/24/2017 06:00 AM	37.04	31.28	15.44	55.40	32.00	41.0	Not Reported	28.86	SE	25.05	SE	47.20	SE	Yes	0.000	Snow Slight	03/24/2017 05:55 AM		0.000	0.008	0.008	0.008	0.008	Not Reported	Not Reported
03/24/2017 06:15 AM	36.86	31.28	16.34	55.40	32.00	43.0	Not Reported	30.87	SE	29.30	SE	42.50	SE	No	0.000	No Precipitation	03/24/2017 06:08 AM	03/24/2017 06:09 AM	0.000	0.008	0.012	0.012	0.012	Not Reported	Not Reported
03/24/2017 06:30 AM	36.68	31.46	17.78	55.40	32.00	46.0	Not Reported	31.09	SE	33.78	SE	41.16	SE	Yes	0.000	Snow Slight	03/24/2017 06:28 AM		0.000	0.008	0.012	0.012	0.012	Not Reported	Not Reported
03/24/2017 06:45 AM	36.32	31.10	17.95	55.40	32.00	47.0	Not Reported	31.54	SE	31.32	SE	47.06	SE	Yes	0.000	Snow Slight	03/24/2017 06:28 AM		0.000	0.008	0.012	0.012	0.012	Not Reported	Not Reported
03/24/2017 07:00 AM	36.32	31.10	17.95	55.40	34.70	47.0	Not Reported	32.44	SE	38.25	SE	40.49	SE	Yes	0.000	Snow Slight	03/24/2017 06:57 AM		0.000	0.008	0.012	0.012	0.012	Not Reported	Not Reported
03/24/2017 07:15 AM	36.32	31.28	18.50	55.40	34.70	48.0	Not Reported	31.99	SE	33.55	SE	47.65	E	No	0.000	No Precipitation	03/24/2017 07:10 AM	03/24/2017 07:11 AM	0.000	0.008	0.012	0.012	0.012	Not Reported	Not Reported
03/24/2017 07:30 AM	36.32	31.28	19.04	55.40	34.70	49.0	Not Reported	24.83	SE	21.70	SE	41.16	SE	Yes	0.000	Snow Slight	03/24/2017 07:29 AM		0.000	0.008	0.012	0.012	0.012	Not Reported	Not Reported
03/24/2017 07:45 AM	35.96	31.10	18.68	55.40	34.70	49.0	Not Reported	29.53	SE	32.88	SE	44.07	SE	Yes	0.002	Snow Slight	03/24/2017 07:33 AM		0.004	0.012	0.016	0.016	0.016	Not Reported	Not Reported
03/24/2017 08:00 AM	35.96	31.10	19.22	55.40	35.96	50.0	Not Reported	33.78	SE	30.65	SE	48.77	SE	Yes	0.000	Snow Slight	03/24/2017 07:33 AM		0.004	0.012	0.020	0.020	0.020	Not Reported	Not Reported
03/24/2017 08:15 AM	35.96	31.28	19.58	55.40	35.96	51.0	Not Reported	29.53	SE	27.74	SE	46.08	SE	Yes	0.000	Unidentified Moderate	03/24/2017 07:33 AM		0.008	0.012	0.024	0.024	0.024	Not Reported	Not Reported
03/24/2017 08:30 AM	35.96	31.28	19.58	55.40	35.96	51.0	Not Reported	28.41	SE	34.90	SE	44.74	SE	Yes	0.001	Unidentified Moderate	03/24/2017 07:33 AM		0.012	0.016	0.028	0.028	0.028	Not Reported	Not Reported
03/24/2017 08:45 AM	36.14	31.28	19.76	55.40	35.96	51.0	Not Reported	31.09	SE	24.38	SE	46.75	SE	Yes	0.000	Snow Slight	03/24/2017 07:33 AM		0.012	0.020	0.031	0.031	0.031	Not Reported	Not Reported
03/24/2017 09:00 AM	36.14	31.46	20.66	55.40	35.96	53.0	Not Reported	24.61	SE	27.29	SE	45.86	SE	Yes	0.001	Unidentified Moderate	03/24/2017 07:33 AM		0.012	0.024	0.035	0.035	0.035	Not Reported	Not Reported
03/24/2017 09:15 AM	36.14	31.46	20.66	55.40	35.96	53.0	Not Reported	28.41	SE	22.82	SE	43.84	SE	Yes	0.001	Snow Slight	03/24/2017 07:33 AM		0.016	0.031	0.039	0.043	0.043	Not Reported	Not Reported
03/24/2017 09:30 AM	36.32	31.64	20.84	55.40	35.96	53.0	Not Reported	26.84	SE	27.96	SE	39.15	SE	Yes	0.000	Snow Slight	03/24/2017 07:33 AM		0.016	0.031	0.043	0.043	0.043	Not Reported	Not Reported
03/24/2017 09:45 AM	36.86	32.00	21.74	55.40	35.96	54.0	Not Reported	26.84	SE	26.62	SE	36.91	SE	No	0.000	No Precipitation	03/24/2017 09:42 AM	03/24/2017 09:43 AM	0.012	0.031	0.043	0.047	0.047	Not Reported	Not Reported

# Detailed Graphs

Weed Airport: 03/24/2017

Date

[Summary](#) [Historical Data](#) [Station List](#)

## Temperature

[Air Temperature](#)

[Air Temperature and Dewpoint](#)

## Precipitation

[Precipitation](#)

[Humidity](#)

[Precipitation Situation](#)

## Wind

[Average Wind Speed](#)

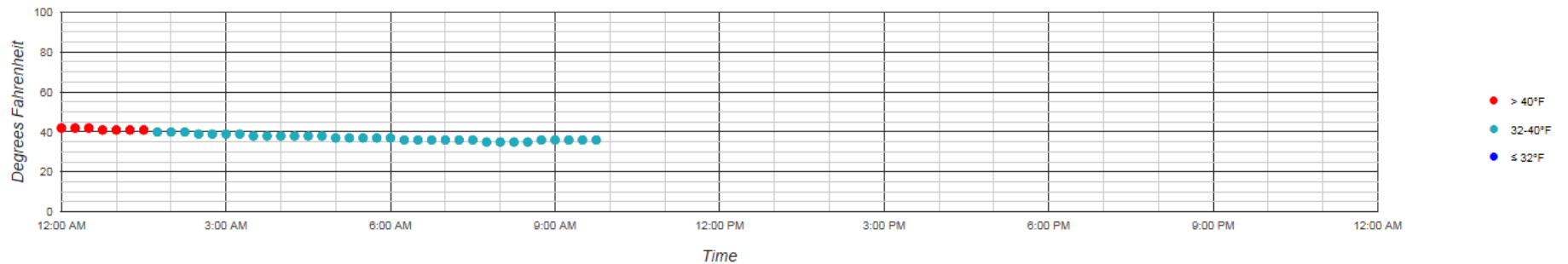
[Wind Gust](#)

[Average and Gust Wind Speed](#)

[Average and Gust Wind Direction](#)

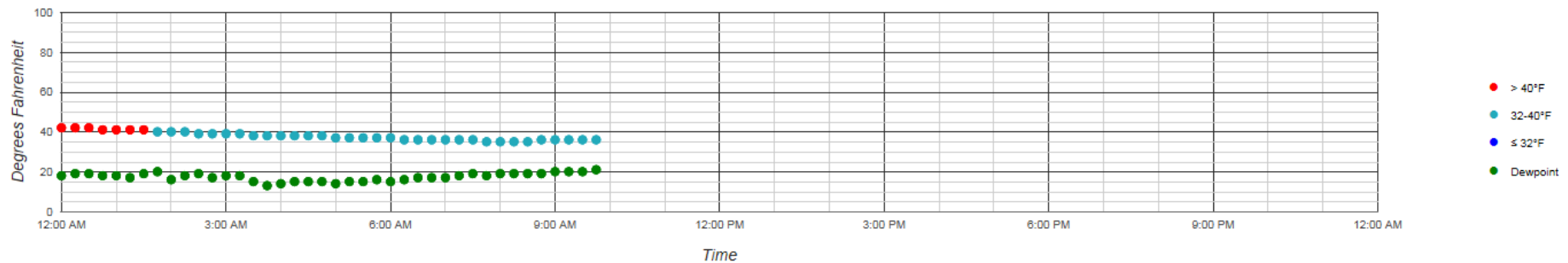
### Air Temperature

[TOP](#)



### Air Temperature and Dewpoint

[TOP](#)

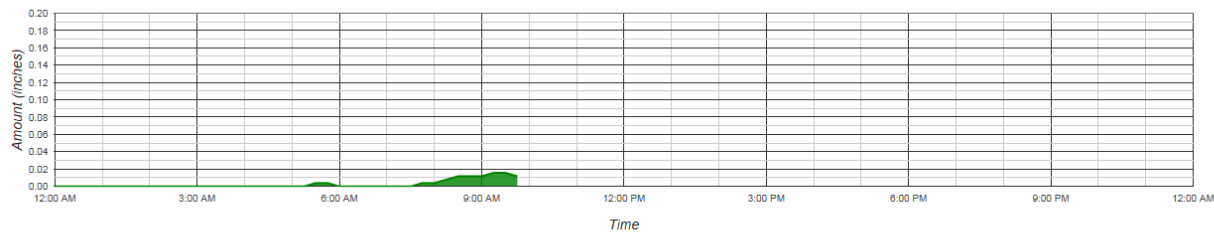




# Detailed Graphs

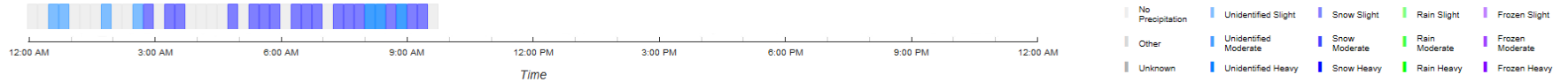
Precipitation

TOP



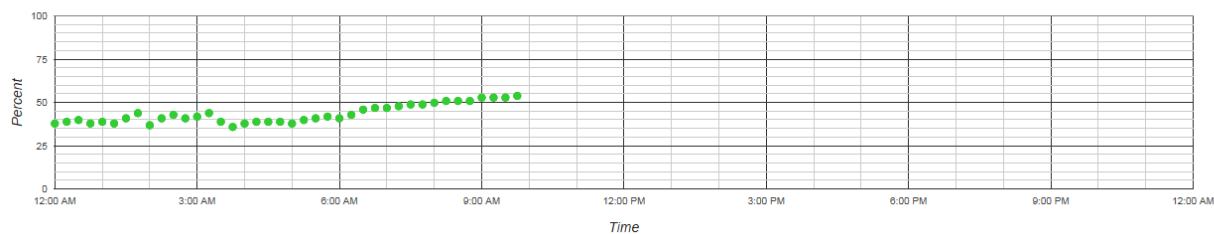
Precipitation Situation

TOP

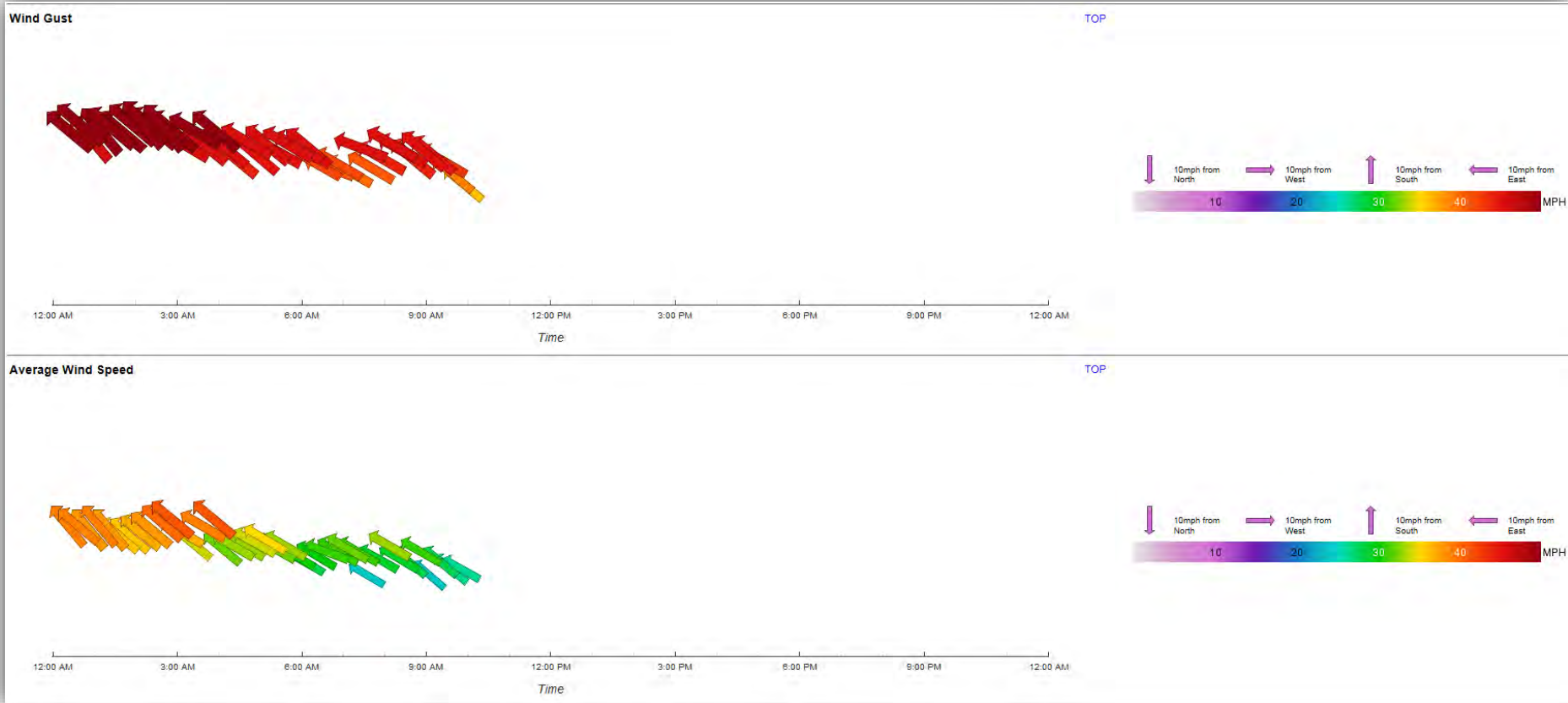


Humidity

TOP



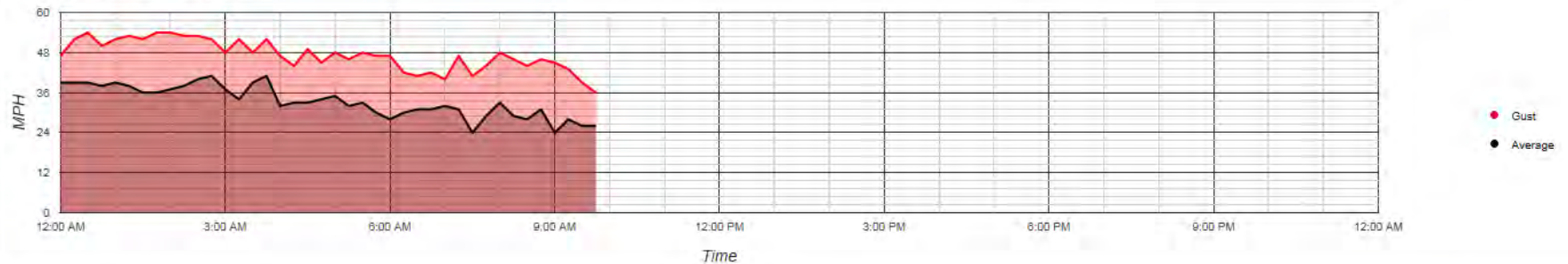
# Detailed Graphs



# Detailed Graphs

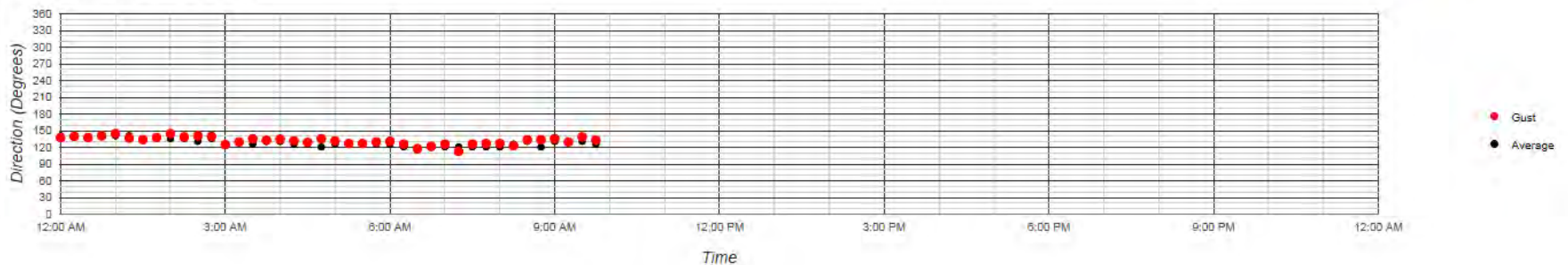
Average and Gust Wind Speed

TOP



Average and Gust Wind Direction

TOP





# Alerts and Subscriptions

# Alerts are Organized by Site

## Alerts for D02-07 - Bogard

	Alert Name	Alert Created	Author	Last Evaluation	Last Status Change	Status	
<a href="#">Definition History</a> <a href="#">Subscribe</a>	Bogard Freezing	02/01/2017 13:18:58 PM	dgalarusITS	03/24/2017 10:10:26 AM		Deactivated	<a href="#">Edit</a> <a href="#">Delete</a>
<a href="#">Definition History</a> <a href="#">Subscribe</a>	BogartPrecip	02/15/2017 08:15:25 AM	dgalarusITS	03/24/2017 10:10:26 AM	03/24/2017 10:10:26 AM	Activated	<a href="#">Edit</a> <a href="#">Delete</a>
<a href="#">Definition History</a> <a href="#">Subscribe</a>	Bogard near Freezing	03/21/2017 12:36:52 PM	dgalarusITS	03/24/2017 10:10:26 AM	03/24/2017 10:05:21 AM	Activated	<a href="#">Edit</a> <a href="#">Delete</a>
<a href="#">Definition History</a> <a href="#">Subscribe</a>	Bogard Wet Pavement	03/22/2017 13:03:35 PM	dgalarusITS	03/24/2017 10:10:26 AM	03/24/2017 10:10:26 AM	Activated	<a href="#">Edit</a> <a href="#">Delete</a>
<a href="#">Definition History</a> <a href="#">Subscribe</a>	Bogard Icy Road	03/23/2017 10:21:52 AM	dgalarusITS	03/24/2017 10:10:26 AM		Deactivated	<a href="#">Edit</a> <a href="#">Delete</a>

[New Alert](#)

# A Simple, Example Alert

## Bogard - D02-07

**Alert Name:** Bogard Freezing

**Description:** Bogard Air Temp below Freezing

**Created by:** dgalarusITS

**Defined For:** dgalarusITS

**Duration:** 30 The alert will be considered active for this amount of time(in minutes) past condition evaluation and will generate notifications accordingly.

☒ Any conditions met ☐ All conditions met

Sensor Name	Condition	Threshold
essAirTemperature.1	<	32





# Alert Creation/Editing

## Bogard

**Alert Name:**

**Alert Description:**

**Alert Created by:** dgalarusITS

**Alert Defined For:**  ▼

**Alert Duration:**  ▼ The alert will be considered active for this amount of time(in minutes)

☒ Any conditions met ☐ All conditions met

Sensor Name	Condition	Threshold
<input type="text" value="Air Temperature"/> ▼	<input type="text" value="&lt;"/> ▼	<input type="text" value="32"/>

Delete

Add Condition

Save

Cancel

## Bogard - D02-07

**Alert Name:** BogartPrecip

**Description:** Bogart Precipitation

**Created by:** dgalarusITS

**Defined For:** dgalarusITS

**Duration:** 30 The alert will be considered active for this amount of

☒ Any conditions met ☐ All conditions met

Sensor Name	Condition	Threshold
essPrecipYesNo	is	Precipitation
essPrecipSituation	is	Unidentified Slight
essPrecipSituation	is	Unidentified Moderat
essPrecipSituation	is	Unidentified Heavy
essPrecipSituation	is	Snow Slight
essPrecipSituation	is	Snow Moderate
essPrecipSituation	is	Snow Heavy
essPrecipSituation	is	Rain Slight
essPrecipSituation	is	Rain Moderate
essPrecipSituation	is	Rain Heavy
essPrecipSituation	is	Frozen Precipitation
essPrecipSituation	is	Frozen Precipitation
essPrecipSituation	is	Frozen Precipitation
essPrecipitationOneHour	>	0

# Example Precipitation Alert

gartPrecip	Activated	essPrecipitationOneHour(0.00787402) > 0
gartPrecip	Activated	essPrecipitationOneHour(0.00787402) > 0
gartPrecip	Activated	essPrecipYesNo(Precipitation) is Precipitation essPrecipitationOneHour(0.01574804) > 0
gartPrecip	Activated	essPrecipYesNo(Precipitation) is Precipitation essPrecipitationOneHour(0.01574804) > 0
gartPrecip	Activated	essPrecipYesNo(Precipitation) is Precipitation essPrecipitationOneHour(0.01574804) > 0
gartPrecip	Activated	essPrecipYesNo(Precipitation) is Precipitation essPrecipitationOneHour(0.01574804) > 0
gartPrecip	Activated	essPrecipYesNo(Precipitation) is Precipitation essPrecipitationOneHour(0.01574804) > 0
gartPrecip	Activated	essPrecipitationOneHour(0.01574804) > 0
gartPrecip	Activated	essPrecipitationOneHour(0.01574804) > 0



## Bogard - D02-07

**Alert Name:** Bogard Wet Pavement

**Description:** Board Wet Pavement - not dry and not ERRO

**Created by:** dgalarusITS

**Defined For:** dgalarusITS

**Duration:** 30 The alert will be considered active for this a

☐ Any conditions met ☒ All conditions met

Sensor Name	Condition	Threshold
essSurfaceStatus.1	isnt	Dry
essSurfaceStatus.1	isnt	ERROR

## Example Wet Pavement Alert

### Bogard

nt  
- not dry and not ERRO

Date < 03/24/2017 >

Date/Time	Alert	Status	Condition(s)
03/24/2017 02:50:26 AM	Bogard Wet Pavement	Activated	essSurfaceStatus.1(Trace Moisture) isnt Dry essSurfaceStatus.1(Trace Moisture) isnt ERROR
03/24/2017 02:55:21 AM	Bogard Wet Pavement	Activated	essSurfaceStatus.1(Trace Moisture) isnt Dry essSurfaceStatus.1(Trace Moisture) isnt ERROR
03/24/2017 03:00:20 AM	Bogard Wet Pavement	Activated	essSurfaceStatus.1(Trace Moisture) isnt Dry essSurfaceStatus.1(Trace Moisture) isnt ERROR

# Example Icy Road Alert

**Duration:** 30 The alert will be considered active for this

7

	Alert	Status	Condition(s)
IM	Bogard Icy Road	Activated	essSurfaceStatus.1(Ice Watch) is Ice Watch
IM	Bogard Icy Road	Activated	essSurfaceStatus.1(Ice Watch) is Ice Watch
IM	Bogard Icy Road	Activated	essSurfaceStatus.1(Ice Watch) is Ice Watch
IM	Bogard Icy Road	Activated	essSurfaceStatus.1(Ice Watch) is Ice Watch
IM	Bogard Icy Road	Activated	essSurfaceStatus.1(Ice Watch) is Ice Watch
IM	Bogard Icy Road	Activated	essSurfaceStatus.1(Ice Watch) is Ice Watch
IM	Bogard Icy Road	Activated	essSurfaceStatus.1(Ice Watch) is Ice Watch
IM	Bogard Icy Road	Activated	essSurfaceStatus.1(Ice Watch) is Ice Watch
IM	Bogard Icy Road	Activated	essSurfaceStatus.1(Ice Watch) is Ice Watch
IM	Bogard Icy Road	Activated	essSurfaceStatus.1(Ice Watch) is Ice Watch
IM	Bogard Icy Road	Activated	essSurfaceStatus.1(Ice Watch) is Ice Watch
AM	Bogard Icy Road	Activated	essSurfaceStatus.1(Ice Watch) is Ice Watch essSurfaceStatus.2(Ice Watch) is Ice Watch
AM	Bogard Icy Road	Activated	essSurfaceStatus.1(Ice Watch) is Ice Watch essSurfaceStatus.2(Ice Watch) is Ice Watch

# Alert Subscriptions

## Alert Subscriptions D02-07 - Bogard

**Alert Name:** Bogard Freezing

**Description:** Bogard Air Temp below Freezing

### User Subscriptions

Subscriptions for those having WeatherShare user accounts.

User Name	Contact Address	Notification Timing	
<input type="text" value="dgalarusITS"/>	<input type="text" value="Email 1"/> ▼	<input type="text" value="15"/> ▼	<a href="#">Delete</a>

[Add Subscription](#)

### Non-User Subscriptions

Subscriptions for those not having WeatherShare user accounts.

Name	Email Address	Notification Timing	
<input type="text"/>	<input type="text"/>	<input type="text" value="0"/> ▼	<a href="#">Delete</a>

[Add Non-Subscription](#)



# Alert Notification



Fri 3/24/2017 8:54 AM

WxShare@weathershare.org

Grouped WeatherShare Alerts

To Galarus, Doug

Bogard : 2017-03-24 07:50 : Bogard Wet Pavement,essSurfaceStatus.1(Trace Moisture) isnt Dry;essSurfaceStatus.1(Trace Moisture) isnt ERROR  
Bogard : 2017-03-24 07:50 : BogartPrecip,essPrecipitationOneHour(0.00787402) > 0  
Bogard : 2017-03-24 07:50 : Bogard Freezing,essAirTemperature.1(31.46) < 32



Fri 3/24/2017 10:54 AM

WxShare@weathershare.org

Grouped WeatherShare Alerts

To Galarus, Doug

Bogard : 2017-03-24 09:50 : Bogard Wet Pavement,essSurfaceStatus.1(Trace Moisture) isnt Dry;essSurfaceStatus.1(Trace Moisture) isnt ERROR  
Bogard : 2017-03-24 09:50 : Bogard near Freezing,essAirTemperature.1(32.18) <= 40;essAirTemperature.1(32.18) > 32  
Bogard : 2017-03-24 09:50 : BogartPrecip,essPrecipitationOneHour(0.03149608) > 0  
Bogard : 2017-03-24 09:35 : Bogard Freezing,essAirTemperature.1(31.82) < 32

# Administrative Functionality

# User Profile Options

Profile Options [Station List](#) | [Map](#)

[Admin](#) | [Logout\(dgalarusITS\)](#)

[Edit Preferences](#)

[Change Password](#)



# Edit User (Profile)

## Edit User

**Username:** dgalarusITS

Email 1:

**Emails must have a valid email format.**

Email 2:

(optional) Second Email Address

SMS:

(optional) SMS Gateway Email Address

Group Notifications: ☒

If checked, multiple notifications may be grouped in single emails.

Notification Timing:  ▼

Timing interval (in minutes) for grouped notifications.

Save

Cancel

# Administrative Options

Administrative Options [Station List](#) | [Map](#)

[Profile](#) | [Logout\(dgalarusITS\)](#)

[Manage Users](#)

# Edit User (Administrative)

## Edit User

Username: dgalarusITS

Email 1:

**Emails must have a valid email format.**

Email 2:

(optional) Second Email Address

SMS:

(optional) SMS Gateway Email Address

Districts:

Users must be assigned a district and may be assigned to multiple districts.

Role:

Users must be assigned a role.

Group Notifications:

If checked, multiple notifications may be grouped in single emails.

Notification Timing:

Timing interval (in minutes) for grouped notifications.

Enabled: ☒



# Some Implementation Details

# Client-Side Technologies

Google Maps JavaScript API:

<https://developers.google.com/maps/>

<https://developers.google.com/maps/documentation/javascript/>

jQuery Sparklines:

<http://omnipotent.net/jquery.sparkline/#s-about>

Google Charts and Visualization API:

<https://developers.google.com/chart/>

<https://developers.google.com/chart/interactive/docs/gallery>

<https://developers.google.com/chart/interactive/docs/reference>

Hand-coded HTML, CSS and JavaScript ...

# Some Client-Side Issues

The chart APIs use their own custom data structures and functionality. I.e., these things are non-standard.

- Custom-coding was necessary.
- Duplication of data was necessary.
- We had to kludge the appearance of some items to get the output we wanted.

We considered using jQuery for tables but opted to hand-code the HTML.

- jQuery tables did not give the flexibility in display that we wanted.
- jQuery did offer other features (sorting) that would have been nice.

The Google Maps API InfoWindows continue to give us challenges.

- Issues with sizing of the InfoWindows.
- Issues with formatting within the InfoWindows.



# Server-Side (LAMP)

	<b>Production</b>
<b>CentOS</b>	release 6.8 (Final)
<b>Apache</b>	2.2.23
<b>Mysql</b>	14.14 Distrib 5.1.73
<b>Python</b>	2.6.6
<b>PhP</b>	5.3.21
<b>ImageMagick</b>	6.8.2-10

# Some Server-Side Comments

We tried to implement using flat-files for storage.

- We largely did this. See below.
- In WeatherShare Phase 1, we got burned trying to handle the many data elements associated with RWIS in a database.
- Generally, we don't need advanced query capability.

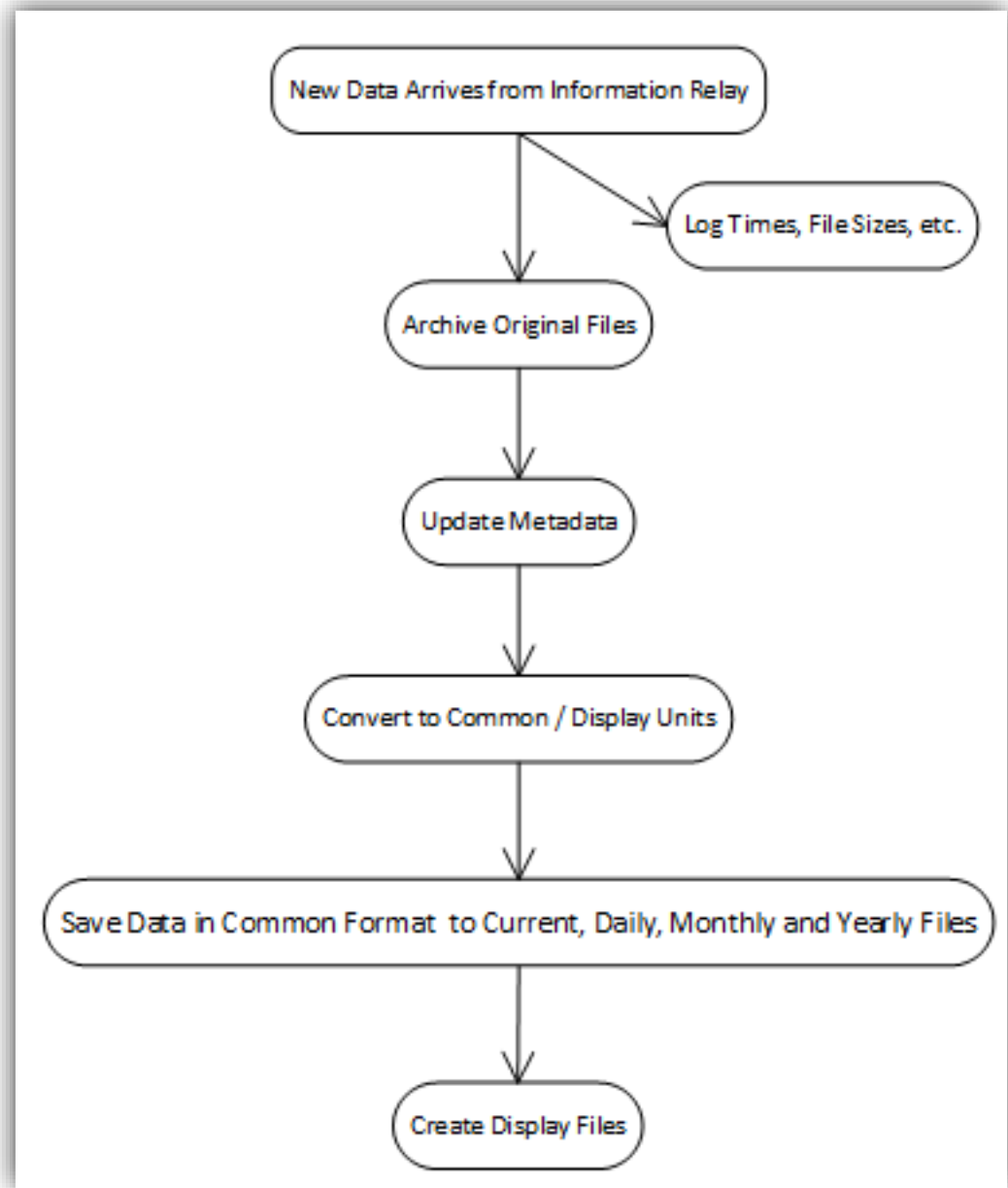
We used Python and Shell scripts for all processing.

- This gets messy in places.
- In other places, it works well – example: the use of inotify to indicate when new files have been received.

We ultimately used a database (MySQL) for profile and alert functionality.

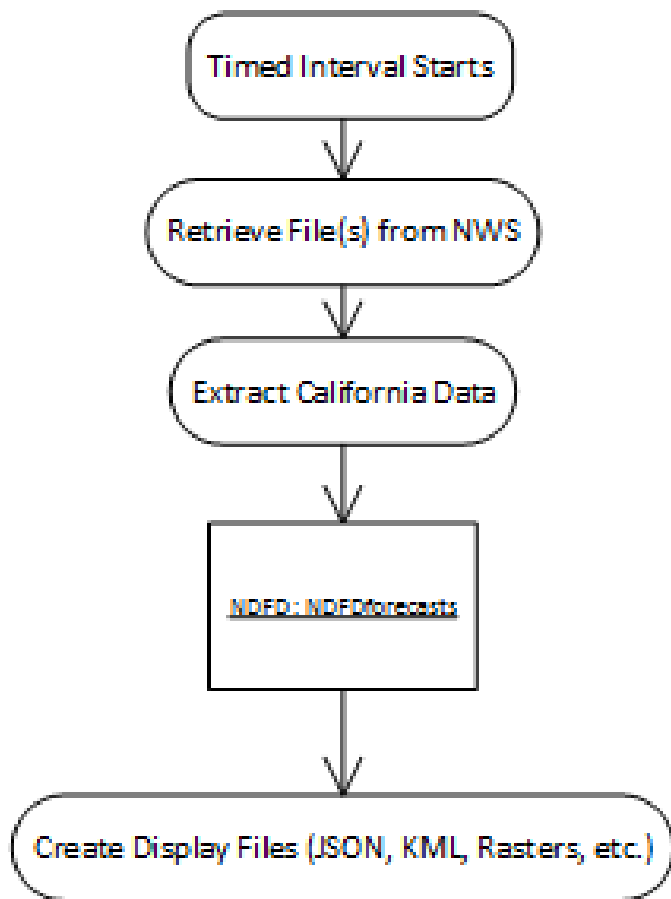
There are many “moving parts” ...

# RWIS Data is Pushed by the Caltrans Information Relay to WeatherShare and then Processed



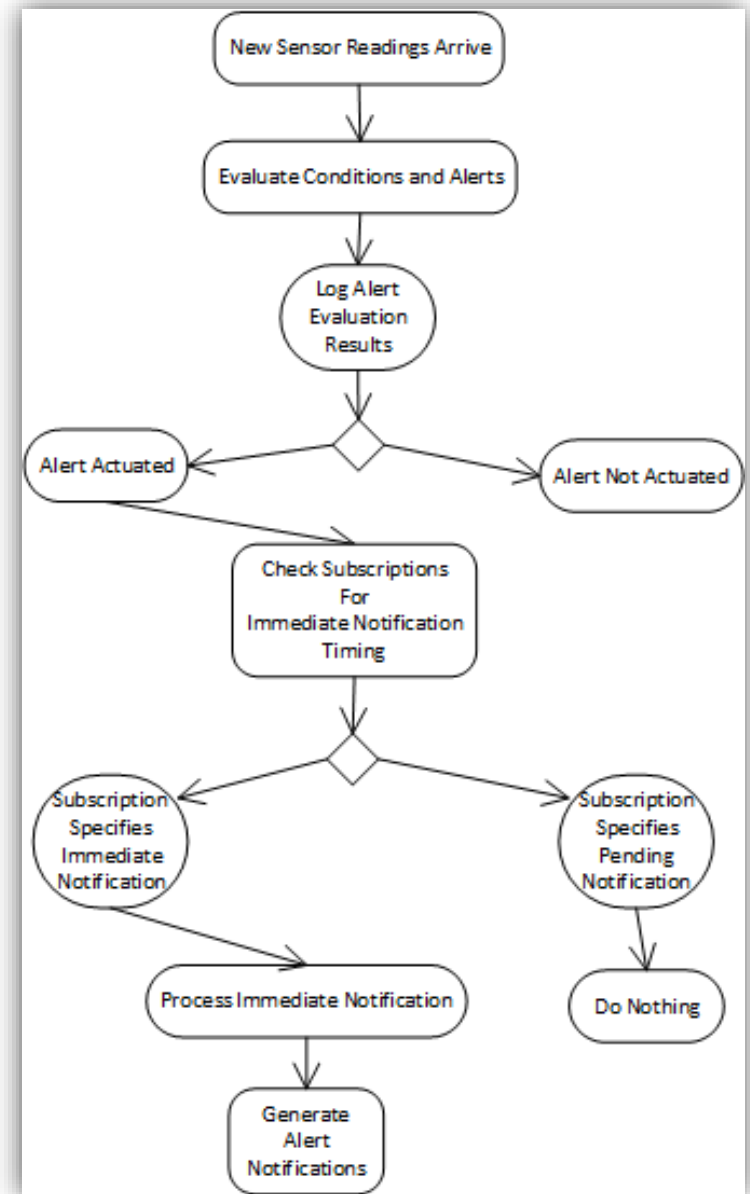


## NWS Alert Retrieval

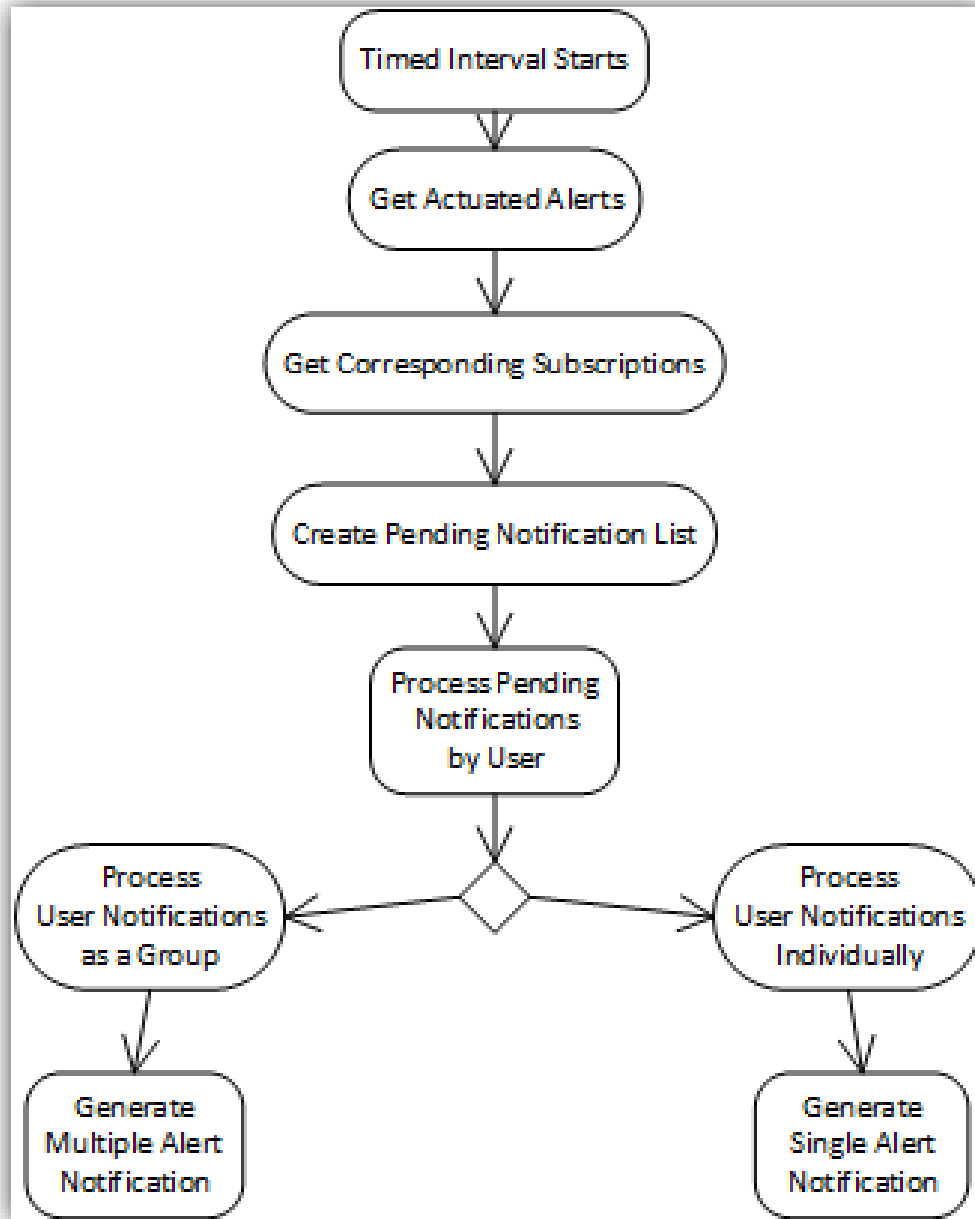


Other Data is Retrieved Periodically by WeatherShare and then Processed

# Alert Conditions are Evaluated Upon Arrival of New Sensor Readings



## Pending Alert Notifications are Processed after Timed Intervals and Depending on Grouped or Individual Preference





# Summary

- Major functionality has been implemented.
- Alerts, notification and profiles greatly increased the complexity of the system.
- Alerts and notification were finished after the bad weather season.
- The alert and notification interface is still rough.
- In general, the system is ready for use.

# WeatherShare and Western States OSS

Try them out:

<http://oss.weathershare.org/>

<http://www.weathershare.org/>



For further information:

<http://www.westernstates.org/Projects/OSS/>

<http://www.westernstates.org/Projects/WeatherShare/>

# Questions?