



# Limited Availability - Daily Forecast

## API User Document

Version 1.0

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#### Audience

This API is intended for web and mobile platforms.

#### Geography

Worldwide.

#### Background Technology

This API is a [REST](#)-based web service.

#### Response Format

This TWC API can return either JSON or XML formatted responses.

#### Icon Codes, Weather Phrases and Images

For the mapping of icon codes, weather phrases and images please refer to the [Icon Code, Weather Phrases and Images document](#).

#### Translations

This TWC API handles the translation of phrases. However, when formatting a request URL a valid language must be passed along (see the language code table for the supported codes).

##### Fields Translated

- |             |                 |                |                     |                 |
|-------------|-----------------|----------------|---------------------|-----------------|
| • narrative | • wind_phrase   | • daypart_name | • shortcast         | • golf_category |
| • dow       | • wdir_cardinal | • temp_phrase  | • long_daypart_name | • phrase_32char |
|             |                 |                |                     | • lunar_phase   |

#### HTTP Headers and Data Lifetime - Caching and Expiration

For details on appropriate header values as well as caching and expiration definitions, please see [The Weather Company Data | API Common Usage Guide](#).

#### URL Construction

Please refer to the [TWC API Common Usage document](#) for a tutorial on URL construction and URL references.

Overview

The Standard Daily Forecast API is sourced from the The Weather Company (TWC) Forecast system. This TWC API returns weather forecasts for the current day up to 9 days out. Your content licensing agreement with TWC determines the number of days returned in the API response and is constrained by the API Key that is provided to your company. Please refer to the Data Elements section later in this document for more details.

Your content licensing agreement with TWC determines the specific endpoint authorized by the API Key entitlements that is provided to your company. Each time segment duration (3, 5, 7, 10, 15) is an atomic API endpoint. Your API key must be authorized for each atomic API endpoint to successfully request a given API endpoint. For example if your API key is authorized for only the 10 Day, and you attempt to request a 5 Day duration, you will get an error stating that [Api not allowed for this api key].

Understanding Daily Forecasts

Implementing our forecasts requires your applications to perform basic processing in order to properly ingest the forecast data feeds.

Forecast Composition

The TWC daily forecast product can contain multiple days of daily forecasts for each location. Each day of a forecast can contain up to three "temporal segments" meaning three separate forecasts. For any given forecast day we offer day, night, and a 24-hour forecast.

Forecast Implementation

The data values in this API are correctly populated into Day, Night, or 24-hour temporal segments. These segments are separate objects in the XML or JSON responses.

**PLEASE NOTE:** The Day object will no longer appear in the API after 3:00pm Local Apparent Time. At 3pm Local Apparent Time, we recommend that your application no longer displays the Day object.

Unit of Measure Requirement

The unit of measure for the response. The following values are supported:

- e = English units
- m = Metric units
- h = Hybrid units (UK)

URL Format

Atomic API URL Examples:

Your content licensing agreement with TWC determines the number of days returned in the API response and is constrained by the API Key that is provided to your company.

Request by Geocode (Latitude & Longitude):

https://api.weather.com/v1/geocode/34.063/-84.217/forecast/daily/3day.json?language=en-US&units=e&apiKey=yourApiKey

Required Parameters:

geocode, language, format

https://api.weather.com/v1/geocode/34.063/-84.217/forecast/daily/3day.json?language=en-US&units=e&apiKey=yourApiKey

https://api.weather.com/v1/geocode/34.063/-84.217/forecast/daily/5day.json?language=en-US&units=e&apiKey=yourApiKey

https://api.weather.com/v1/geocode/34.063/-84.217/forecast/daily/7day.json?language=en-US&units=e&apiKey=yourApiKey

https://api.weather.com/v1/geocode/34.063/-84.217/forecast/daily/10day.json?language=en-US&units=e&apiKey=yourApiKey

**Request by Postal Code:**  
The Postal Code has a TWC proprietary location type (4) with the following format: location/<postal code>:<location type>:<country code>  
https://api.weather.com/v1/location/30075:4:US/forecast/daily/3day.json?language=en-US&units=e&apiKey=yourApiKey

**Required Parameters:**  
postal code:4:country code, language, format

https://api.weather.com/v1/location/30075:4:US/forecast/daily/3day.json?language=en-US&units=e&apiKey=yourApiKey  
https://api.weather.com/v1/location/30075:4:US/forecast/daily/5day.json?language=en-US&units=e&apiKey=yourApiKey  
https://api.weather.com/v1/location/30075:4:US/forecast/daily/7day.json?language=en-US&units=e&apiKey=yourApiKey  
https://api.weather.com/v1/location/30075:4:US/forecast/daily/10day.json?language=en-US&units=e&apiKey=yourApiKey

Data Elements & Rule Definitions

Each data element has three rules associated with it as defined below.

| This Rule ...   | ... does this ...                                                                                                                                               | ... answers this ...                                                   |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| Usage Rule      | Determines whether a data element is required or optional.<br>If it is optional, determines whether or not you can substitute it with a different data element. | Must I use this data element or can I replace it with a different one? |
| Processing Rule | Defines how to process a data element so the results are correct.                                                                                               | If I use this data element, how do I process it?                       |
| Display Rule    | Defines the proper display format for a data element.                                                                                                           | How do I display this data element?                                    |

Data Element Descriptions

| Outbound JSON/XML      | Description                                                                                                                                                                                                                                                            | Type    | Length | Range  | Null | Sample                   | Usage    | Processing | Display             |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------|--------|------|--------------------------|----------|------------|---------------------|
| Metadata               | Metadata fields including echo parameters are defined in <a href="#">API Common Usage &amp; Style Guide</a>                                                                                                                                                            |         |        |        |      |                          |          |            |                     |
| Daily Forecast         | This section will repeat up to 11 times (current + 10 days)                                                                                                                                                                                                            |         |        |        |      |                          |          |            |                     |
| Daily – 24 Hour Period |                                                                                                                                                                                                                                                                        |         |        |        |      |                          |          |            |                     |
| class                  | Data identifier                                                                                                                                                                                                                                                        | string  |        |        | N    | fod_long_range_daily     | required | none       | do not display      |
| expire_time_gmt        | Expiration time in UNIX seconds                                                                                                                                                                                                                                        | epoch   | 11     |        | N    | 1373914800               | required | none       | do not display      |
| fcst_valid             | Time forecast is valid in UNIX seconds                                                                                                                                                                                                                                 | epoch   | 10     |        | N    | 1369306800               | required | none       | do not display      |
| fcst_valid_local       | Time forecast is valid in local apparent time.                                                                                                                                                                                                                         | ISO     |        |        | N    | 2013-08-06T07:00:00-0400 | required | none       | do not display      |
| num                    | This data field is the sequential number that identifies each of the forecasted days in the API. They start on day 1, which is the forecast for the current day. Then the forecast for tomorrow uses number 2, then number 3 for the day after tomorrow, and so forth. | Integer | 2      | 1 - 15 | N    | 1                        | optional | none       | display as provided |

|                  |                                                                                                                       |         |     |         |   |                                                                                                                                                            |          |                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                 |
|------------------|-----------------------------------------------------------------------------------------------------------------------|---------|-----|---------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| max_temp         | Daily maximum temperature                                                                                             | integer | 4   |         | Y | 82                                                                                                                                                         | required | none                                                                                                                                                                                                                                                                                                                                                      | Display as provided in degrees Fahrenheit or degrees Celsius based on the Unit of Measure in the API request. Always display the unit of temperature (°F or °C) with the value. |
| min_temp         | Daily minimum temperature                                                                                             | integer | 4   |         | N | 59                                                                                                                                                         | required | none                                                                                                                                                                                                                                                                                                                                                      | Display as provided in degrees Fahrenheit or degrees Celsius based on the Unit of Measure in the API request. Always display the unit of temperature (°F or °C) with the value. |
| torcon           | The estimate of the likelihood of tornado activity during a given 24 hour forecast period.                            | integer | 2   | 0 to 10 | Y | 0                                                                                                                                                          | optional | none                                                                                                                                                                                                                                                                                                                                                      | display as provided                                                                                                                                                             |
| stormcon         | The estimate of the likelihood of winter storm activity during a given 24 hour forecast period.                       | integer | 2   | 0 to 10 | Y | 0                                                                                                                                                          | optional | none                                                                                                                                                                                                                                                                                                                                                      | display as provided                                                                                                                                                             |
| blurb            | A handwritten local or regional text forecast created by a meteorologist to supplement the system-generated forecast. | string  | 512 |         | Y | The Palomar fire is now about 45% contained. Smoke remains a significant problem in the LA basin.                                                          | required | none                                                                                                                                                                                                                                                                                                                                                      | display as provided                                                                                                                                                             |
| blurb_author     | The name initials of the meteorologist who authored the forecast blur.                                                | string  | 5   |         | Y | SO                                                                                                                                                         | required | none                                                                                                                                                                                                                                                                                                                                                      | display as provided                                                                                                                                                             |
| dow              | Day of week                                                                                                           | string  | 10  |         | N | Thursday                                                                                                                                                   | required | You must display this field in your application. According to the space limits of your application to show text, use the name of the week in its abbreviated form.<br><br><b>Examples:</b><br>Monday MON Mon. M<br>Tuesday TUE Tue. Tu<br>Wednesday WED Wed.W<br>Thursday THU Thur. Th<br>Friday FRI Fri. F<br>Saturday SAT Sat. Sa<br>Sunday SUN Sun. Su | display as processed by your system                                                                                                                                             |
| lunar_phase_code | 3 character short code for lunar phases                                                                               | string  | 3   |         | N | WNG=Waning Gibbous<br>WXC=Waxing Crescent<br>FQ=First Quarter<br>WNC=Waning Crescent<br>LQ=Last Quarter<br>F=Full Moon<br>WXG=Waxing Gibbous<br>N=New Moon | required | none                                                                                                                                                                                                                                                                                                                                                      | do not display                                                                                                                                                                  |

|                 |                                                                                                                                                                                                                                           |         |     |              |   |                                                                                                                                                                                                                                                                                                                                                                                     |          |      |                                                                               |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----|--------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-------------------------------------------------------------------------------|
| lunar_phase     | Description phrase for the current lunar phase                                                                                                                                                                                            | string  | 30  |              | N | Waning Gibbous                                                                                                                                                                                                                                                                                                                                                                      | required | none | display as provided                                                           |
| lunar_phase_day | Day number within monthly lunar cycle                                                                                                                                                                                                     | integer | 2   | 0 through 29 | N | lunar_phase_day = 0 or 29 - "New Moon"<br>lunar_phase_day > 0 and < 7 - "Waxing Crescent"<br>lunar_phase_day = 7 - "First Quarter"<br>lunar_phase_day > 7 and < 14 - "Waxing Gibbous"<br>lunar_phase_day = 14 or 15 - "Full Moon"<br>lunar_phase_day > 15 and < 22 - "Waning Gibbous"<br>lunar_phase_day = 22 - "Last Quarter"<br>lunar_phase_day > 22 and < 29 - "Waning Crescent" | required | none | display as provided                                                           |
| sunrise         | The local time of the sunrise. It reflects any local daylight savings conventions. For a few Arctic and Antarctic regions, the Sunrise and Sunset data values may be null to reflect conditions where a sunrise or sunset does not occur. | ISO     |     |              | Y | 2013-08-06T07:00:00-0400                                                                                                                                                                                                                                                                                                                                                            | required | none | display as provided                                                           |
| sunset          | The local time of the sunset. It reflects any local daylight savings conventions. For a few Arctic and Antarctic regions, the Sunrise and Sunset data values may be null to reflect conditions where a sunrise or sunset does not occur.  | ISO     |     |              | Y | 2013-08-06T07:00:00-0400                                                                                                                                                                                                                                                                                                                                                            | required | none | display as provided                                                           |
| moonrise        | First moonrise in local time. It reflects daylight savings time conventions.                                                                                                                                                              | ISO     |     |              | Y | 2013-08-06T07:00:00-0400                                                                                                                                                                                                                                                                                                                                                            | optional | none | display as provided                                                           |
| moonset         | First Moonset in local time. It reflects daylight savings time conventions.                                                                                                                                                               | ISO     |     |              | Y | 2013-08-07T01:00:00-0400                                                                                                                                                                                                                                                                                                                                                            | optional | none | display as provided                                                           |
| qualifer_code   | A code for special forecasted weather criteria for the 12 and 24 hour dayparts                                                                                                                                                            | string  | 5   |              | Y | Q9015                                                                                                                                                                                                                                                                                                                                                                               | required | none | do not display                                                                |
| qualifier       | A phrase associated to the qualifier_code describing special forecasted weather criteria for the 24 hour dayparts.                                                                                                                        | string  | 100 |              | Y | Winds could occasionally gust over 70 mph.                                                                                                                                                                                                                                                                                                                                          | required | none | display as provided                                                           |
| narrative       | The narrative forecast for the 24 hour period.                                                                                                                                                                                            | string  | 256 |              | N | A few thunderstorms possible. Lows overnight in the low 60s.                                                                                                                                                                                                                                                                                                                        | required | none | display as provided                                                           |
| qpf             | The forecasted measurable precipitation (liquid or liquid equivalent) during 24 hour period.                                                                                                                                              | decimal | 5,2 |              | N | 0.06                                                                                                                                                                                                                                                                                                                                                                                | required | none | Display as provided with the correct unit of measure (inches or millimeters). |

|                        |                                                                                                                                                       |         |         |                                                                                                                                                                                                  |   |                                    |          |      |                                                                               |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------------------------------------|----------|------|-------------------------------------------------------------------------------|
| snow_qpf               | The forecasted measurable precipitation as snow during the 24 hour forecast period.                                                                   | decimal | 5,1     |                                                                                                                                                                                                  | N | 1.3                                | optional | none | Display as provided with the correct unit of measure (inches or centimeters). |
| snow_range             | The expected amount of snow for the 24 hour period.                                                                                                   | string  | Up to 7 |                                                                                                                                                                                                  | N | 6 - 12                             | optional | none | Display as provided with the correct unit of measure (in. or cm.)             |
| snow_phrase            | A shortened text description of the forecasted snow accumulation during the forecast period (24 hours).                                               | string  |         |                                                                                                                                                                                                  | N | Potential for 6-12 inches of snow. | optional | none | Display as provided with the correct unit of measure (inches or centimeters). |
| snow_code              | Snow accumulation code for the 24 hour forecast period.                                                                                               | string  | 5       |                                                                                                                                                                                                  | N | A9015                              | optional | none | do not display                                                                |
| <b>Daily – Daytime</b> |                                                                                                                                                       |         |         |                                                                                                                                                                                                  |   |                                    |          |      |                                                                               |
| class                  | Data identifier                                                                                                                                       | string  |         |                                                                                                                                                                                                  | N | fod_long_range_daily               | required | none | do not display                                                                |
| expire_time_gmt        | Expiration time in UNIX seconds                                                                                                                       | epoch   | 11      |                                                                                                                                                                                                  | N | 1373914800                         | required | none | do not display                                                                |
| fcst_valid             | Time forecast is valid in UNIX seconds                                                                                                                | epoch   | 10      |                                                                                                                                                                                                  | N | 1369306800                         | required | none | do not display                                                                |
| fcst_valid_local       | Time forecast is valid in local apparent time.                                                                                                        | ISO     |         |                                                                                                                                                                                                  | N | 2013-08-06T07:00:00-0400           | required | none | do not display                                                                |
| day_ind                | Day or night indicator                                                                                                                                | string  | 1       |                                                                                                                                                                                                  | N | D                                  | required | none | do not display                                                                |
| thunder_enum           | The enumeration of thunderstorm probability within an area for a 12 hour daypart.                                                                     | integer | 2       | 0 - 5                                                                                                                                                                                            | N | 3                                  | optional | none | display as provided                                                           |
| thunder_enum_phrase    | The description of probability thunderstorm activity in an area for 12 hour daypart.                                                                  | string  | 34      | 0 = "No thunder";<br>1 = "Thunder possible";<br>2 = "Thunder expected";<br>3 = "Severe thunderstorms possible";<br>4 = "Severe thunderstorms likely";<br>5 = "High risk of severe thunderstorms" | N | Severe thunderstorms possible      | optional | none | display as provided                                                           |
| daypart_name           | The name of a 12 hour daypart not including day names in the first 48 hours.                                                                          | String  | 20      | Today, Tonight                                                                                                                                                                                   | N | Today                              | required | none | display as provided                                                           |
| long_daypart_name      | The named time frame for the valid weather forecast in an expanded format. The named time frame can be either for 12-hour periods or 24-hour periods. | string  | 20      | Monday, Monday Night, Tuesday, Tuesday Night, Wednesday, Wednesday Night, Thursday, Thursday Night, Friday, Friday Night, Saturday, Saturday Night, Sunday, Sunday Night                         | N | Tuesday Night                      | optional | none | display as provided                                                           |

|                  |                                                                                                                                                                                                                                                                                                              |         |    |  |   |                    |          |                                                                                                       |                                                                                                                                                                                 |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----|--|---|--------------------|----------|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| alt_daypart_name | A specialized version of the Daypart Name field. Certain holidays or historic events may replace the usual daypart name.                                                                                                                                                                                     | string  | 64 |  | N | Christmas Day      | optional | none                                                                                                  | display as provided                                                                                                                                                             |
| num              | The sequential number that identifies each of the forecasted days in your feed. They start on day 1, which is the forecast for the current day. Then the forecast for tomorrow uses number 2, then number 3 for the day after tomorrow, and so forth.                                                        | integer | 2  |  | N | 1                  | optional | day 1 is the first day in the series                                                                  | do not display                                                                                                                                                                  |
| temp             | The maximum temperature between 7am and 7pm for daytime temperature and the minimum temperature between 7pm and 7am for nighttime temperature. Minimum temperature also incorporates hourly forecasts up to and including 8am the next morning, to better capture morning lows.                              | integer | 4  |  | N | 81                 | required | none                                                                                                  | Display as provided in degrees Fahrenheit or degrees Celsius based on the Unit of Measure in the API request. Always display the unit of temperature (°F or °C) with the value. |
| temp_phrase      | The short phrase containing the forecasted high or low temperature for 12 hour forecast period.                                                                                                                                                                                                              | string  | 75 |  | N | High 81F           | optional | none                                                                                                  | display as provided                                                                                                                                                             |
| hi               | An apparent temperature. It represents what the air temperature “feels like” on exposed human skin due to the combined effect of warm temperatures and high humidity. Below 65°F, it is set = to the temperature. Units - Expressed in fahrenheit when units=e, expressed in celsius when units=m, s, or h.  | integer | 4  |  | N | 84                 | optional | Display Heat Index only when the Heat Index value in your data feed is above 65°F (or equivalent).    | Use either Celsius degrees <b>or</b> Fahrenheit degrees <b>or</b> both. Always display the unit of temperature (°F or °C) with the value.                                       |
| wc               | An apparent temperature. It represents what the air temperature “feels like” on exposed human skin due to the combined effect of the cold temperatures and wind speed. Above 65°F, it is set = to the temperature. Units - Expressed in fahrenheit when units=e, expressed in celsius when units=m, s, or h. | integer | 4  |  | N | 68                 |          | Display Wind Chill only when the Wind Chill value in your data feed is 65°F (or equivalent) or lower. | Use either Celsius degrees <b>or</b> Fahrenheit degrees <b>or</b> both. Always display the unit of temperature (°F or °C) with the value.                                       |
| pop              | Daytime maximum probability of precipitation.                                                                                                                                                                                                                                                                | integer | 3  |  | N | 20                 | required | none                                                                                                  | Display the percent % sign after the value.                                                                                                                                     |
| pop_phrase       | Daytime probability of precipitation phrase.                                                                                                                                                                                                                                                                 | string  | 25 |  | N | Chance of snow 90% | optional | none                                                                                                  | display as provided                                                                                                                                                             |
| icon_extd        | Code representing explicit full set sensible weather. Please refer to the <a href="#">Forecast Icon Code, Weather Phrases and Images</a> document.                                                                                                                                                           | integer | 4  |  | N | 2600               | required | none                                                                                                  | do not display                                                                                                                                                                  |
| icon_code        | This number is the key to the weather icon lookup. The data field shows the icon number that is matched to represent the observed weather conditions. Please refer to the <a href="#">Forecast Icon Code, Weather Phrases and Images</a> document.                                                           | integer | 2  |  | N | 26                 | required | none                                                                                                  | do not display                                                                                                                                                                  |

|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |    |                    |   |                 |          |      |                                                                                                                                                                                                                                                                                                                                                               |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----|--------------------|---|-----------------|----------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| wxman         | The code to enable the Weather Man animation for forecast period. TWC use only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | string  | 6  |                    | N | wx4400          | optional | none | do not display                                                                                                                                                                                                                                                                                                                                                |
| phrase_32char | Daytime sensible weather phrase                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | string  | 32 |                    | N | Heavy Rain/Wind | required | none | display as provided                                                                                                                                                                                                                                                                                                                                           |
| phrase_22char | Daytime sensible weather phrase                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | string  | 22 |                    | N | Cloudy          | required | none | display as provided                                                                                                                                                                                                                                                                                                                                           |
| phrase_12char | Daytime sensible weather phrase                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | string  | 12 |                    | N | Windy           | required | none | display as provided                                                                                                                                                                                                                                                                                                                                           |
| subphrase_pt1 | Part 1 of 3-part daytime sensible weather phrase                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | string  | 9  |                    | N | Cloudy          | optional | none | The three parts are to be displayed one after another in numerical order.<br>display as provided                                                                                                                                                                                                                                                              |
| subphrase_pt2 | Part 2 of 3-part daytime sensible weather phrase                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | string  | 9  |                    | N | windy           | optional | none | The three parts are to be displayed one after another in numerical order.<br>display as provided                                                                                                                                                                                                                                                              |
| subphrase_pt3 | Part 3 of 3-part daytime sensible weather phrase                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | string  | 9  |                    | N | Thunder         | optional | none | The three parts are to be displayed one after another in numerical order.<br>Display as provided                                                                                                                                                                                                                                                              |
| precip_type   | Type of precipitation to display with the probability of precipitation (pop) data element.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | string  | 6  | rain, snow, precip | N | rain            | required | none | display as provided                                                                                                                                                                                                                                                                                                                                           |
| rh            | The average daytime relative humidity of the air, which is defined as the ratio of the amount of water vapor in the air to the amount of vapor required to bring the air to saturation at a constant temperature. Relative humidity is always expressed as a percentage.                                                                                                                                                                                                                                                                                                                                                             | integer | 3  | 0 to 100           | N | 83              | required | none | You must display the percent sign "%" after the value.                                                                                                                                                                                                                                                                                                        |
| wspd          | The maximum forecasted daytime wind speed.<br>The wind is treated as a vector; hence, winds must have direction and magnitude (speed). The wind information reported in the hourly current conditions corresponds to a 10-minute average called the sustained wind speed. Sudden or brief variations in the wind speed are known as "wind gusts" and are reported in a separate data field. Wind directions are always expressed as "from whence the wind blows" meaning that a North wind blows from North to South. If you face North in a North wind the wind is at your face. Face southward and the North wind is at your back. | integer | 3  |                    | N | 7               | required | none | Display the Wind Speed with its Wind Direction. Use the value as it appears in the data feed (numeric value) and always display its unit of measure, either the fully spelled version or its abbreviation.<br><b>Examples</b><br><i><b>Wind:</b> from the Southeast at 8 miles per hour.</i><br><i><b>Wind:</b> from the Northwest at 12 kilometers/hour.</i> |
| wdir          | Daytime average wind direction in true heading notation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | integer | 4  | 0 to 359           | N | 148             | required | none | Display the Wind Speed with its Wind Direction. Use the value as it appears in the data feed (numeric value) and always display its unit of                                                                                                                                                                                                                   |



|                     |                                                                                                                                                                                                                                                                         |         |         |                                                                      |   |                                                              |          |                                                                                |                                                                                                                                                                                                                                                                                                                                                 |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|----------------------------------------------------------------------|---|--------------------------------------------------------------|----------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     |                                                                                                                                                                                                                                                                         |         |         |                                                                      |   |                                                              |          |                                                                                | measure, either the fully spelled version or its abbreviation.<br><b>Examples</b><br><i>Wind: from the Southeast at 8 miles per hour.</i><br><i>Wind: from the Northwest at 12 kilometers/hour.</i>                                                                                                                                             |
| wdir_cardinal       | Daytime average wind direction in cardinal notation.                                                                                                                                                                                                                    | string  | 4       | N , NNE , NE, ENE, E, ESE, SE, SSE, S, SSW, SW, WSW, W, WNW, NW, NNW | N | SE                                                           | required | none                                                                           | Display the Wind Speed with its Wind Direction. Use the value as it appears in the data feed (numeric value) and always display its unit of measure, either the fully spelled version or its abbreviation.<br><b>Examples</b><br><i>Wind: from the Southeast at 8 miles per hour.</i><br><i>Wind: from the Northwest at 12 kilometers/hour.</i> |
| wind_phrase         | The phrase that describes the wind direction and speed for a 12 hour daypart. This is a mapping of a phrase that coincides with the calculated wspd. It is designed as a range rather than an absolute value for a better understanding that the wind speed can change. | string  |         |                                                                      | N | Winds SSE at 5 to 10 mph.                                    | required | None. Units of measure are dependent on the parameter provided in the request. | display as provided.                                                                                                                                                                                                                                                                                                                            |
| clds                | Daytime average cloud cover expressed as a percentage.                                                                                                                                                                                                                  | integer | 3       |                                                                      | N | 82                                                           | required | none                                                                           | You must display the percent sign "%" after the value.                                                                                                                                                                                                                                                                                          |
| shortcast           | An abbreviated sensible weather portion of narrative forecast.                                                                                                                                                                                                          | string  | 64      |                                                                      | N | Cloudy                                                       | required | none                                                                           | display as provided                                                                                                                                                                                                                                                                                                                             |
| narrative           | The narrative forecast for the daytime period.                                                                                                                                                                                                                          | string  | 256     |                                                                      | N | A few thunderstorms possible. Lows overnight in the low 60s. | required | none                                                                           | display as provided                                                                                                                                                                                                                                                                                                                             |
| qpf                 | The forecasted measurable precipitation (liquid or liquid equivalent) during the 12 hour forecast period.                                                                                                                                                               | decimal | 5,2     |                                                                      | N | 0.04                                                         | optional | none                                                                           | Display as provided with the correct unit of measure (inches or millimeters).                                                                                                                                                                                                                                                                   |
| accumulation_phrase | An accumulation phrase of any precipitation type in the 12 hour forecast period.                                                                                                                                                                                        | string  | 75      |                                                                      | N | Additional rainfall over 2 inches expected.                  | optional | None. Units of measure are dependent on the parameter provided in the request. | display as provided                                                                                                                                                                                                                                                                                                                             |
| snow_qpf            | The forecasted measurable precipitation as snow during the 12 hour forecast period.                                                                                                                                                                                     | decimal | 5,1     |                                                                      | N | 5.3                                                          | optional | none                                                                           | Display as provided with the correct unit of measure (inches or centimeters).                                                                                                                                                                                                                                                                   |
| snow_range          | Snow accumulation amount for the 12 hour forecast period.                                                                                                                                                                                                               | string  | Up to 7 |                                                                      | N | 4 - 6                                                        | optional | none                                                                           | Display as provided with the correct unit of measure (inches or centimeters).                                                                                                                                                                                                                                                                   |

|                          |                                                                                                                                        |         |     |                                                                                                                                               |   |                                                    |          |                                                                                                                  |                                                                                                   |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------|---------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------|---|----------------------------------------------------|----------|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| snow_phrase              | Snow accumulation phrase for the 12 hour forecast period.                                                                              | string  | 75  |                                                                                                                                               | N | Additional snow and ice accumulating 4 to 6 inches | optional | none                                                                                                             | display as provided                                                                               |
| snow_code                | Residual snow accumulation code for the 12 hour forecast period.                                                                       | string  | 5   |                                                                                                                                               | N | A9015                                              | optional | none                                                                                                             | do not display                                                                                    |
| vocal_key                | An encoded narrative forecast used for creating computer-generated audio narratives of the forecast period. TWC use only.              | string  | 128 |                                                                                                                                               | N | D1:DA01:X2600260011:S260011:TH81:W07R02            | optional | none                                                                                                             | do not display                                                                                    |
| qualifier                | A forecast qualifier that is applicable to the 12 hour forecast period.                                                                | string  | 100 |                                                                                                                                               | N | Winds could occasionally gust over 70 mph.         | required | none                                                                                                             | display as provided                                                                               |
| qualifier_code           | A code for the forecast qualifier applicable to the 12 hour forecast period.                                                           | string  | 5   |                                                                                                                                               | N | Q9015                                              | required | none                                                                                                             | do not display                                                                                    |
| uv_index_raw             | The non-truncated UV Index which is the intensity of the solar radiation based on a number of factors.                                 | decimal | 4,2 |                                                                                                                                               | N | 2.22                                               | optional | none                                                                                                             | do not display                                                                                    |
| uv_index                 | Maximum UV index for the 12 hour forecast period.                                                                                      | integer | 3   |                                                                                                                                               | N | 2                                                  | optional | none                                                                                                             | Display as provided. If the data value is greater than or equal to 11, convert the value to "10+" |
| uv_desc                  | The UV Index Description which complements the UV Index value by providing an associated level of risk of skin damage due to exposure. | string  | 20  | 2 is Not Available<br>-1 is No Report<br>0 to 2 is Low<br>3 to 5 is Moderate<br>6 to 7 is High<br>8 to 10 is Very High<br>11 to 16 is Extreme | N | Low                                                | optional | none                                                                                                             | display as provided                                                                               |
| uv_warning               | TWC-created UV warning based on UV index of 11 or greater.                                                                             | integer | 1   |                                                                                                                                               | N | 0                                                  | optional | If the data value is 1, then a UV warning is in effect. If the data value is 0, then no UV warning is in effect. | do not display                                                                                    |
| golf_index               | The Golf Index expresses on a scale of 0 to 10 the weather conditions for playing golf. Not applicable at night.                       | integer | 2   |                                                                                                                                               | Y | 8                                                  | optional | none                                                                                                             | display as provided                                                                               |
| golf_category            | The Golf Index Category expressed as a phrase for the weather conditions for playing golf.                                             | string  | 20  |                                                                                                                                               | Y | Very Good                                          | optional | none                                                                                                             | display as provided                                                                               |
| <b>Daily - Nighttime</b> |                                                                                                                                        |         |     |                                                                                                                                               |   |                                                    |          |                                                                                                                  |                                                                                                   |
| class                    | Data identifier                                                                                                                        | string  |     |                                                                                                                                               | N | fod_long_range_daily                               | required | none                                                                                                             | do not display                                                                                    |
| expire_time_gmt          | Expiration time in UNIX seconds                                                                                                        | epoch   | 11  |                                                                                                                                               | N | 1373914800                                         | required | none                                                                                                             | do not display                                                                                    |
| fcst_valid               | Time forecast is valid in UNIX seconds                                                                                                 | epoch   | 10  |                                                                                                                                               | N | 1369306800                                         | required | none                                                                                                             | do not display                                                                                    |
| fcst_valid_local         | Time forecast is valid in local apparent time.                                                                                         | ISO     |     |                                                                                                                                               | N | 2013-08-06T07:00:00-0400                           | required | none                                                                                                             | do not display                                                                                    |
| day_ind                  | Day or night indicator                                                                                                                 | string  | 1   |                                                                                                                                               | N | N                                                  | required | none                                                                                                             | do not display                                                                                    |
| thunder_enum             | The enumeration of thunderstorm probability within an area for the 12 hour daypart.                                                    | integer | 2   | 0 - 5                                                                                                                                         | N | 3                                                  | optional | none                                                                                                             | display as provided                                                                               |
| thunder_enum_phrase      | The description of probability thunderstorm activity in an area for the 12 hour daypart.                                               | string  | 34  | 0 = "No thunder";<br>1 = "Thunder possible";<br>2 = "Thunder                                                                                  | N | Severe thunderstorms possible                      | optional | none                                                                                                             | display as provided                                                                               |

|                   |                                                                                                                                                                                                                                                                                 |         |    |                                                                                                                                                                          |   |               |          |                                                                                                           |                                                                                                                                                                                 |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---------------|----------|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   |                                                                                                                                                                                                                                                                                 |         |    | expected";<br>3 = "Severe<br>thunderstorms<br>possible";<br>4 = "Severe<br>thunderstorms likely";<br>5 = "High risk of<br>severe<br>thunderstorms"                       |   |               |          |                                                                                                           |                                                                                                                                                                                 |
| daypart_name      | The name of a 12 hour daypart not including day names in the first 48 hours.                                                                                                                                                                                                    | String  | 20 | Today, Tonight                                                                                                                                                           | N | Today         | required | none                                                                                                      | display as provided                                                                                                                                                             |
| long_daypart_name | The named time frame for the valid weather forecast in an expanded format. The named time frame can be either for 12-hour periods or 24-hour periods.                                                                                                                           | string  | 20 | Monday, Monday Night, Tuesday, Tuesday Night, Wednesday, Wednesday Night, Thursday, Thursday Night, Friday, Friday Night, Saturday, Saturday Night, Sunday, Sunday Night | N | Tuesday Night | optional | none                                                                                                      | display as provided                                                                                                                                                             |
| alt_daypart_name  | A specialized version of the Daypart Name field. Certain holidays or historic events may replace the usual daypart name.                                                                                                                                                        | string  | 64 |                                                                                                                                                                          | N | Christmas Day | optional | none                                                                                                      | display as provided                                                                                                                                                             |
| num               | The sequential number that identifies each of the forecasted days in your feed. They start on day 1, which is the forecast for the current day. Then the forecast for tomorrow uses number 2, then number 3 for the day after tomorrow, and so forth.                           | integer | 2  |                                                                                                                                                                          | N | 1             | optional | day 1 is the first day in the series                                                                      | do not display                                                                                                                                                                  |
| temp              | The maximum temperature between 7am and 7pm for daytime temperature and the minimum temperature between 7pm and 7am for nighttime temperature. Minimum temperature also incorporates hourly forecasts up to and including 8am the next morning, to better capture morning lows. | integer | 4  |                                                                                                                                                                          | N | 81            | required | none                                                                                                      | Display as provided in degrees Fahrenheit or degrees Celsius based on the Unit of Measure in the API request. Always display the unit of temperature (°F or °C) with the value. |
| temp_phrase       | The short phrase containing the forecasted high or low temperature for 12 hour forecast period.                                                                                                                                                                                 | string  | 75 |                                                                                                                                                                          | N | High 81F      | optional | none                                                                                                      | display as provided                                                                                                                                                             |
| hi                | An apparent temperature. It represents what the air temperature “feels like” on exposed human skin due to the combined effect of warm temperatures and high humidity. Below 65°F, it is set = to the temperature. Units - Expressed in fahrenheit when                          | integer | 4  |                                                                                                                                                                          | N | 84            | optional | Display Heat Index only when the Heat Index value in your data feed is greater than 65°F (or equivalent). | Use either Celsius degrees <b>or</b> Fahrenheit degrees <b>or</b> both. Always display the unit of temperature (°F or °C) with the value.                                       |

|               |                                                                                                                                                                                                                                                                                                              |         |    |            |   |                    |          |                                                                                                       |                                                                                                                                           |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----|------------|---|--------------------|----------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
|               | units=e, expressed in celsius when units=m, s, or h.                                                                                                                                                                                                                                                         |         |    |            |   |                    |          |                                                                                                       |                                                                                                                                           |
| wc            | An apparent temperature. It represents what the air temperature “feels like” on exposed human skin due to the combined effect of the cold temperatures and wind speed. Above 65°F, it is set = to the temperature. Units - Expressed in fahrenheit when units=e, expressed in celsius when units=m, s, or h. | integer | 4  |            | N | 68                 |          | Display Wind Chill only when the Wind Chill value in your data feed is 65°F (or equivalent) or lower. | Use either Celsius degrees <b>or</b> Fahrenheit degrees <b>or</b> both. Always display the unit of temperature (°F or °C) with the value. |
| pop           | Nighttime maximum probability of precipitation.                                                                                                                                                                                                                                                              | integer | 3  |            | N | 20                 | required | none                                                                                                  | Display the percent % sign after the value.                                                                                               |
| pop_phrase    | Nighttime probability of precipitation phrase.                                                                                                                                                                                                                                                               | string  | 25 |            | N | Chance of snow 90% | optional | none                                                                                                  | display as provided                                                                                                                       |
| icon_extd     | Code representing explicit full set sensible weather. Please refer to the <a href="#">Forecast Icon Code, Weather Phrases and Images</a> document.                                                                                                                                                           | integer | 4  |            | N | 2600               | required | none                                                                                                  | do not display                                                                                                                            |
| icon_code     | This number is the key to the weather icon lookup. The data field shows the icon number that is matched to represent the observed weather conditions. Please refer to the <a href="#">Forecast Icon Code, Weather Phrases and Images</a> document.                                                           | integer | 2  |            | N | 26                 | required | none                                                                                                  | do not display                                                                                                                            |
| wxman         | The code to enable the Weather Man animation for forecast period. TWC use only.                                                                                                                                                                                                                              | string  | 6  |            | N | wx4400             | optional | none                                                                                                  | do not display                                                                                                                            |
| phrase_32char | Nighttime sensible weather phrase                                                                                                                                                                                                                                                                            | string  | 32 |            | N | Heavy Rain/Wind    | required | none                                                                                                  | display as provided                                                                                                                       |
| phrase_22char | Nighttime sensible weather phrase                                                                                                                                                                                                                                                                            | string  | 22 |            | N | Cloudy             | required | none                                                                                                  | display as provided                                                                                                                       |
| phrase_12char | Nighttime sensible weather phrase                                                                                                                                                                                                                                                                            | string  | 12 |            | N | Windy              | required | none                                                                                                  | display as provided                                                                                                                       |
| subphrase_pt1 | Part 1 of 3-part nighttime sensible weather phrase                                                                                                                                                                                                                                                           | string  | 9  |            | N | Cloudy             | optional | none                                                                                                  | The three parts are to be displayed one after another in numerical order. display as provided                                             |
| subphrase_pt2 | Part 2 of 3-part nighttime sensible weather phrase                                                                                                                                                                                                                                                           | string  | 9  |            | N | windy              | optional | none                                                                                                  | The three parts are to be displayed one after another in numerical order. display as provided                                             |
| subphrase_pt3 | Part 3 of 3-part nighttime sensible weather phrase                                                                                                                                                                                                                                                           | string  | 9  |            | N | Thunder            | optional | none                                                                                                  | The three parts are to be displayed one after another in numerical order. Display as provided                                             |
| precip_type   | Type of precipitation to display with the probability of precipitation (pop) data element.                                                                                                                                                                                                                   | string  | 6  | rain, snow | N | rain               | required | none                                                                                                  | display as provided                                                                                                                       |
| rh            | The nighttime relative humidity of the air, which is defined as the ratio of the amount of water vapor in the air to the amount of vapor required to bring the air to saturation at a constant temperature. Relative humidity is always expressed as a percentage.                                           | integer | 3  | 0 to 100   | N | 83                 | required | none                                                                                                  | You must display the percent sign “%” after the value.                                                                                    |

|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |   |                                                                                 |   |                           |          |                                                                                |                                                                                                                                                                                                                                                                                                                                                               |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---|---------------------------------------------------------------------------------|---|---------------------------|----------|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| wspd          | The maximum forecasted nighttime wind speed.<br>The wind is treated as a vector; hence, winds must have direction and magnitude (speed). The wind information reported in the hourly current conditions corresponds to a 10-minute average called the sustained wind speed. Sudden or brief variations in the wind speed are known as “wind gusts” and are reported in a separate data field. Wind directions are always expressed as “from whence the wind blows” meaning that a North wind blows from North to South. If you face North in a North wind the wind is at your face. Face southward and the North wind is at your back. | integer | 3 |                                                                                 | N | 7                         | required | none                                                                           | Display the Wind Speed with its Wind Direction. Use the value as it appears in the data feed (numeric value) and always display its unit of measure, either the fully spelled version or its abbreviation.<br><b>Examples</b><br><i><b>Wind:</b> from the Southeast at 8 miles per hour.</i><br><i><b>Wind:</b> from the Northwest at 12 kilometers/hour.</i> |
| wdir          | Nighttime average wind direction in magnetic notation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | integer | 4 | 0 to 359                                                                        | N | 148                       | required | none                                                                           | Display the Wind Speed with its Wind Direction. Use the value as it appears in the data feed (numeric value) and always display its unit of measure, either the fully spelled version or its abbreviation.<br><b>Examples</b><br><i><b>Wind:</b> from the Southeast at 8 miles per hour.</i><br><i><b>Wind:</b> from the Northwest at 12 kilometers/hour.</i> |
| wdir_cardinal | Nighttime average wind direction in cardinal notation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | string  | 4 | N , NNE , NE, ENE, E, ESE, SE, SSE, S, SSW, SW, WSW, W, WNW, NW, NNW, CALM, VAR | N | SE                        | required | none                                                                           | Display the Wind Speed with its Wind Direction. Use the value as it appears in the data feed (numeric value) and always display its unit of measure, either the fully spelled version or its abbreviation.<br><b>Examples</b><br><i><b>Wind:</b> from the Southeast at 8 miles per hour.</i><br><i><b>Wind:</b> from the Northwest at 12 kilometers/hour.</i> |
| wind_phrase   | The phrase that describes the wind direction and speed for a 12 hour daypart. This is a mapping of a phrase that coincides with the calculated wspd. It is designed as a range rather than an absolute value for a better understanding that the wind speed can                                                                                                                                                                                                                                                                                                                                                                        | string  |   |                                                                                 | N | Winds SSE at 5 to 10 mph. | required | None. Units of measure are dependent on the parameter provided in the request. | display as provided.                                                                                                                                                                                                                                                                                                                                          |

|                     |                                                                                                                                        |         |         |                                                                                                                                               |   |                                                              |          |                                                                                |                                                                                                   |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------|---------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------|---|--------------------------------------------------------------|----------|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
|                     | change.                                                                                                                                |         |         |                                                                                                                                               |   |                                                              |          |                                                                                |                                                                                                   |
| clds                | Nighttime average cloud cover expressed as a percentage.                                                                               | integer | 3       |                                                                                                                                               | N | 82                                                           | required | none                                                                           | You must display the percent sign "%" after the value.                                            |
| shortcast           | An abbreviated sensible weather portion of narrative forecast.                                                                         | string  | 64      |                                                                                                                                               | N | Cloudy                                                       | required | none                                                                           | display as provided                                                                               |
| narrative           | The narrative forecast for the nighttime period.                                                                                       | string  | 256     |                                                                                                                                               | N | A few thunderstorms possible. Lows overnight in the low 60s. | required | none                                                                           | display as provided                                                                               |
| qpf                 | The forecasted measurable precipitation (liquid or liquid equivalent) during the 12 hour forecast period.                              | decimal | 5,2     |                                                                                                                                               | N | 0.04                                                         | optional | none                                                                           | Display as provided with the correct unit of measure (inches or millimeters).                     |
| accumulation_phrase | An accumulation phrase of any precipitation type in the 12 hour forecast period.                                                       | string  | 75      |                                                                                                                                               | N | Additional rainfall over 2 inches expected.                  | optional | None. Units of measure are dependent on the parameter provided in the request. | display as provided                                                                               |
| snow_qpf            | The forecasted measurable precipitation as snow during the 12 hour forecast period.                                                    | decimal | 5,1     |                                                                                                                                               | N | 5.3                                                          | optional | none                                                                           | Display as provided with the correct unit of measure (inches or centimeters).                     |
| snow_range          | Snow accumulation amount for the 12 hour forecast period.                                                                              | string  | Up to 7 |                                                                                                                                               | N | 4 - 6                                                        | optional | none                                                                           | Display as provided with the correct unit of measure (inches or centimeters).                     |
| snow_phrase         | Snow accumulation phrase for the 12 hour forecast period.                                                                              | string  | 75      |                                                                                                                                               | N | Additional snow and ice accumulating 4 to 6 inches           | optional | none                                                                           | display as provided                                                                               |
| snow_code           | Residual snow accumulation code for the 12 hour forecast period.                                                                       | string  | 5       |                                                                                                                                               | N | A9015                                                        | optional | none                                                                           | do not display                                                                                    |
| vocal_key           | An encoded narrative forecast used for creating computer-generated audio narratives of the forecast period. TWC use only.              | string  | 128     |                                                                                                                                               | N | D1:DA01:X2600260011:S2600 11:TH81:W07R02                     | optional | none                                                                           | do not display                                                                                    |
| qualifier           | A forecast qualifier that is applicable to the 12 hour forecast period.                                                                | string  | 100     |                                                                                                                                               | N | Winds could occasionally gust over 70 mph.                   | required | none                                                                           | display as provided                                                                               |
| qualifier_code      | A code for the forecast qualifier applicable to the 12 hour forecast period.                                                           | string  | 5       |                                                                                                                                               | N | Q9015                                                        | required | none                                                                           | do not display                                                                                    |
| uv_index_raw        | The non-truncated UV Index which is the intensity of the solar radiation based on a number of factors.                                 | decimal | 4,2     |                                                                                                                                               | N | 2.22                                                         | optional | none                                                                           | do not display                                                                                    |
| uv_index            | Maximum UV index for the 12 hour forecast period.                                                                                      | integer | 3       |                                                                                                                                               | N | 2                                                            | optional | none                                                                           | Display as provided. If the data value is greater than or equal to 11, convert the value to "10+" |
| uv_desc             | The UV Index Description which complements the UV Index value by providing an associated level of risk of skin damage due to exposure. | string  | 20      | 2 is Not Available<br>-1 is No Report<br>0 to 2 is Low<br>3 to 5 is Moderate<br>6 to 7 is High<br>8 to 10 is Very High<br>11 to 16 is Extreme | N | Low                                                          | optional | none                                                                           | display as provided                                                                               |
| uv_warning          | TWC-created UV warning based on UV                                                                                                     | integer | 1       |                                                                                                                                               | N | 0                                                            | optional | If the data value is 1,                                                        | do not display                                                                                    |

|               |                                                                                                                  |         |    |  |   |           |          |                                                                                          |                     |
|---------------|------------------------------------------------------------------------------------------------------------------|---------|----|--|---|-----------|----------|------------------------------------------------------------------------------------------|---------------------|
|               | index of 11 or greater.                                                                                          |         |    |  |   |           |          | then a UV warning is in effect. If the data value is 0, then no UV warning is in effect. |                     |
| golf_index    | The Golf Index expresses on a scale of 0 to 10 the weather conditions for playing golf. Not applicable at night. | integer | 2  |  | Y | 8         | optional | none                                                                                     | display as provided |
| golf_category | The Golf Index Category expressed as a phrase for the weather conditions for playing golf.                       | string  | 20 |  | Y | Very Good | optional | none                                                                                     | display as provided |

Response Field Maintenance

TWC strives to minimize the impact of changes in our weather content to your applications. TWC will not remove, rename or change the data type (int, string) of any data fields in the API response. However, TWC may add new data fields without notice.

**Note:** Outbound File Format: If data is null, then the data element tag will be displayed with the value “null” If the data value is an empty string, the element tag will return the tag and the value will have no value displayed (XML) or display double quotes with no data (JSON).

Formatted Response Sample

| XML Example                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | JSON Example                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <pre>&lt;dailyForecastResponse xmlns=""&gt;   &lt;metadata&gt;     &lt;language&gt;en-US&lt;/language&gt;     &lt;transaction_id&gt;1427213176615:-63875823&lt;/transaction_id&gt;     &lt;version&gt;1&lt;/version&gt;     &lt;latitude&gt;34.06&lt;/latitude&gt;     &lt;longitude&gt;-84.21&lt;/longitude&gt;     &lt;units&gt;e&lt;/units&gt;     &lt;expire_time_gmt&gt;1427213527&lt;/expire_time_gmt&gt;   &lt;/metadata&gt;   &lt;forecasts&gt;     &lt;forecast&gt;       &lt;class&gt;fod_long_range_daily&lt;/class&gt;       &lt;expire_time_gmt&gt;1427213527&lt;/expire_time_gmt&gt;       &lt;fcst_valid&gt;1427194800&lt;/fcst_valid&gt;       &lt;fcst_valid_local&gt;2015-03-24T07:00:00-0400&lt;/fcst_valid_local&gt;       &lt;num&gt;1&lt;/num&gt;       &lt;max_temp&gt;72&lt;/max_temp&gt;       &lt;min_temp&gt;56&lt;/min_temp&gt;       &lt;torcon/&gt;       &lt;stormcon/&gt;       &lt;blurb/&gt;     &lt;/forecast&gt;   &lt;/forecasts&gt; &lt;/dailyForecastResponse&gt;</pre> | <pre>{   "metadata": {     "language": "en-US",     "transaction_id": "1427212946977:243470602",     "version": "1",     "latitude": 34.06,     "longitude": -84.21,     "units": "e",     "expire_time_gmt": 1427213199   },   "forecasts": [     {       "class": "fod_long_range_daily",       "expire_time_gmt": 1427213199,       "fcst_valid": 1427194800,       "fcst_valid_local": "2015-03-24T07:00:00-0400",       "num": 1,       "max_temp": 72,       "min_temp": 55,       "torcon": null,       "stormcon": null,       "blurb": null,     }   ] }</pre> |

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    "temp": 55,  
    "hi": 67,  
    "wc": 56,  
    "pop": 40,  
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<clds>65</clds>
<pop_phrase>Chance of rain 40%.</pop_phrase>
<temp_phrase>Low 56F.</temp_phrase>
<accumulation_phrase/>
<wind_phrase>Winds light and variable.</wind_phrase>
<shortcast>Light rain late</shortcast>
<narrative>
  Partly cloudy skies during the evening will give way to cloudy skies and light rain after
  midnight. Low 56F. Winds light and variable. Chance of rain 40%.
</narrative>
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  <thunder_enum>0</thunder_enum>
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"narrative": "Partly cloudy this evening then becoming cloudy with periods of light rain after midnight.
Low around 55F. Winds light and variable. Chance of rain 40%.",
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <pre>&lt;icon_extd&gt;3000&lt;/icon_extd&gt; &lt;icon_code&gt;30&lt;/icon_code&gt; &lt;wxman&gt;wx1100&lt;/wxman&gt; &lt;phrase_12char&gt;P Cloudy&lt;/phrase_12char&gt; &lt;phrase_22char&gt;Partly Cloudy&lt;/phrase_22char&gt; &lt;phrase_32char&gt;Partly Cloudy&lt;/phrase_32char&gt; &lt;subphrase_pt1&gt;Partly&lt;/subphrase_pt1&gt; &lt;subphrase_pt2&gt;Cloudy&lt;/subphrase_pt2&gt; &lt;subphrase_pt3/&gt; &lt;precip_type&gt;rain&lt;/precip_type&gt; &lt;rh&gt;49&lt;/rh&gt; &lt;wspd&gt;5&lt;/wspd&gt; &lt;wdir&gt;144&lt;/wdir&gt; &lt;wdir_cardinal&gt;SE&lt;/wdir_cardinal&gt; &lt;clds&gt;40&lt;/clds&gt; &lt;pop_phrase/&gt; &lt;temp_phrase&gt;High 72F.&lt;/temp_phrase&gt; &lt;accumulation_phrase/&gt; &lt;wind_phrase&gt;Winds light and variable.&lt;/wind_phrase&gt; &lt;shortcast&gt;Times of sun and clouds&lt;/shortcast&gt; &lt;narrative&gt;Partly cloudy. High 72F. Winds light and variable.&lt;/narrative&gt; &lt;qpf&gt;0.0&lt;/qpf&gt; &lt;snow_qpf&gt;0.0&lt;/snow_qpf&gt; &lt;snow_range/&gt; &lt;snow_phrase/&gt; &lt;snow_code/&gt; &lt;vocal_key&gt;D1:DA01:X3000300014:S300013:TH72:W9902&lt;/vocal_key&gt; &lt;qualifier_code/&gt; &lt;qualifier/&gt; &lt;uv_index_raw&gt;7.21&lt;/uv_index_raw&gt; &lt;uv_index&gt;7&lt;/uv_index&gt; &lt;uv_warning&gt;0&lt;/uv_warning&gt; &lt;uv_desc&gt;High&lt;/uv_desc&gt; &lt;golf_index&gt;10&lt;/golf_index&gt; &lt;golf_category&gt;Excellent&lt;/golf_category&gt; &lt;/day&gt; &lt;/forecast&gt; // Response Collapsed for Presentation Purposes &lt;forecast&gt;...&lt;/forecast&gt; // - Response Repeats for Day 1 &lt;forecast&gt;...&lt;/forecast&gt; // - Response Repeats for Day 2 &lt;forecast&gt;...&lt;/forecast&gt; // - Response Repeats for Day 3... &lt;forecast&gt;...&lt;/forecast&gt; // - Response Repeats for Day 10 &lt;/forecasts&gt;</pre> | <pre>"phrase_22char": "Partly Cloudy", "phrase_32char": "Partly Cloudy", "subphrase_pt1": "Partly", "subphrase_pt2": "Cloudy", "subphrase_pt3": "", "precip_type": "rain", "rh": 49, "wspd": 5, "wdir": 146, "wdir_cardinal": "SE", "clds": 39, "pop_phrase": "", "temp_phrase": "High 72F.", "accumulation_phrase": "", "wind_phrase": "Winds light and variable.", "shortcast": "Partly cloudy", "narrative": "A mix of clouds and sun. High 72F. Winds light and variable.", "qpf": 0, "snow_qpf": 0, "snow_range": "", "snow_phrase": "", "snow_code": "", "vocal_key": "D1:DA01:X3000300011:S300011:TH72:W9902", "qualifier_code": null, "qualifier": null, "uv_index_raw": 7.2, "uv_index": 7, "uv_warning": 0, "uv_desc": "High", "golf_index": 10, "golf_category": "Excellent" } }, // Response Collapsed for Presentation Purposes {, // - Response Repeats for Day 1 {, // - Response Repeats for Day 2 {, // - Response Repeats for Day 3... { // - Response Repeats for Day 10 } }</pre> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

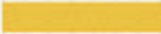
|                          |  |
|--------------------------|--|
| </dailyForecastResponse> |  |
|--------------------------|--|

Display Examples

Example 1

| 10-Day Forecast                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| WED<br>Feb 10                                                                     | THUR<br>Feb 11                                                                    | FRI<br>Feb 12                                                                     | SAT<br>Feb 13                                                                     | SUN<br>Feb 14                                                                     | MON<br>Feb 15                                                                     | TUES<br>Feb 16                                                                    | WED<br>Feb 17                                                                      | THUR<br>Feb 18                                                                      | FRI<br>Feb 19                                                                       |
|  |  |  |  |  |  |  |  |  |  |
| Partly<br>Cloudy /<br>Wind                                                        | Partly<br>Cloudy                                                                  | Rain /<br>Snow<br>Showers                                                         | Sunny                                                                             | Partly<br>Cloudy                                                                  | Partly<br>Cloudy                                                                  | Sunny                                                                             | Sunny                                                                              | Showers                                                                             | Showers                                                                             |
| 39°F<br>24°F                                                                      | 45°F<br>28°F                                                                      | 36°F<br>27°F                                                                      | 49°F<br>27°F                                                                      | 52°F<br>26°F                                                                      | 40°F<br>24°F                                                                      | 45°F<br>30°F                                                                      | 51°F<br>30°F                                                                       | 53°F<br>34°F                                                                        | 53°F<br>35°F                                                                        |
| Precip:<br>10%                                                                    | Precip:<br>10%                                                                    | Precip:<br>40%                                                                    | Precip:<br>0%                                                                     | Precip:<br>20%                                                                    | Precip:<br>20%                                                                    | Precip:<br>0%                                                                     | Precip:<br>10%                                                                     | Precip:<br>30%                                                                      | Precip:<br>30%                                                                      |

Example 2

| 10-Day Forecast for<br>Atlanta, GA (30318) |                                                                                                                |                   |                                                                                            |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------|-------------------|--------------------------------------------------------------------------------------------|
| [ English   <a href="#">Metric</a> ]       |                                                                                                                |                   |                                                                                            |
| Forecast Conditions                        | High °F<br>Low °F                                                                                              | Precip.<br>Chance | High Temperatures <input type="text" value="High Temperatures"/>                           |
| <b>Today</b><br>Feb 10                     | <br>Partly Cloudy /<br>Wind | 39°<br>24°<br>10% |  39°F   |
| <b>Thu</b><br>Feb 11                       | <br>Partly Cloudy           | 45°<br>28°<br>10% |  45°F   |
| <b>Fri</b><br>Feb 12                       | <br>Rain / Snow<br>Showers  | 36°<br>27°<br>40% |  36°F |
| <b>Sat</b><br>Feb 13                       | <br>Sunny                 | 49°<br>27°<br>0%  |  49°F |