

TouchScreen

Wireless Weather Station

WS 550 US

Operating Instructions





La Crosse Technology

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1. General aspects and Function

The TouchScreen Wireless Weather Station WS 550 US is a high-quality, highly comfortable universal weather measurement system that can record, process and display data from a maximum of 8 (currently not available) additional wireless temperature and humidity sensors as well as a combi-sensor up to a distance of 400 ft. (outdoor range).

The combination sensor TX 550 US belonging to the weather station is meant for outdoor use and captures the following:

Temperature, humidity, direction of wind, wind velocity, set in of rain, rain quantity and duration of sunshine.

The weather sensors for inside temperature, indoor humidity and air pressure are already located inside the weather station; hence no external sensor is required for these measurements.

The operating concept is the most excellent feature of the weather station. It does not have any traditional operating elements; it is operated only with the help of a highly sensitive TouchScreen and simple menu structures. Even the weather sensors can be easily logged into the system.

Weather data from the combi-sensor can be queried in real time; in "live mode" touching the respective display field triggers a data query (bi-directional wireless technology). Hence, the latest data is always available. Further, the combi-sensor can also be prompted in "live mode" to send its measurement data for 20 seconds at 2 seconds intervals. You can track in real time the wind direction and the wind velocity for 20 seconds. The display can be illuminated permanently or with time controls; thus the display is legible under almost all light conditions. The glass foot and the transparent design frame of the device are also illuminated.

As the weather station has a large internal memory it is best suited for observation over long periods - a total of 3000 records can be stored in the internal memory.

Please read this Operating Instructions manual carefully and in full to avoid functional disturbances and wrong operations. Please store this manual for future reference.

Please follow the assembling and calibration instructions for the measurement recorders.

Overview of the display and operating options of WS 550 US:

Display the inside temperature and humidity

- Switch to displaying the dewpoint
- Save the minimum and maximum temperature with time/date of occurrence
- Save the minimum and maximum humidity with time/date of occurrence
- Comfort zone indicator
- Graphical trend display of the last 24 h (only for temperature)

Display's outdoor temperature/humidity from Combi Sensor.

- Can be switched: Display the dewpoint or wind-chill temperature
- Save the minimum and maximum temperature with time/date of occurrence
- Save the minimum and maximum humidity with time/date of occurrence
- Graphical trend display of the last 24 h (only for temperature)
- Frost warning (in "Oscar Outlook" display)

Display the wind velocity with wind direction and fluctuation range

- Units for selection: : km/h, m/s, mph
- Save the maximum wind intensity with time/date
- Display wind direction with fluctuation range as wind rose and in numeric format
- Wind-sack symbol for prominent signaling of various wind intensities

Display the rainfall quantity in mm, inch or l/m² for:

- Total quantity since the last reset / last hour / current hour / last 24 h / current 24 h (storage for hour: always at xx:30 hours; storage for day: always at 7:30 a. m.)
- Save the maximum quantity per hour and per day
- Additional display when it starts raining (Immediate rain display)

Display the air pressure progress/ air pressure trend display:

- Graphical display of the progress in the last 24 h
- Display the air pressure trend in 5 stages: heavily increasing, increasing, uniform, decreasing, heavily decreasing

Display symbols of the weather forecast: rainy, cloudy, bright, sunny

Weather display "Oscar Outlook"

Similar to the almost forgotten weather "house" where a person came out of the door with an umbrella if the weather was bad and wore light clothes if it was good, WS 550 US has "Oscar Outlook".

The behavior of this character is based on various weather factors; hence it is immediately possible to know the type of clothing one would need outdoors. Not only the current measured values for outside temperature, humidity, wind and rain are evaluated for this display. The weather forecast also plays an equally important role. So "Oscar Outlook" has different displays and clothing depending on the weather situation.

You will find a detailed description of the evaluation criteria in chapter 3.4 of this Operating Instructions manual.

Display the sunrise and sunset time

- Calculation can be done in the latitude range of -60° to +60° N depending on the location data that is to be entered.

Moon phase display

- Display the current moon phase: New moon, waxing moon, waning moon

Display the total duration of sunshine or of the current day

- Save the minimum and maximum duration per day with time/date of occurrence
- Sun symbol if there is sunshine

Data logging function

- Data logger can collect maximum 3000 records at programmable intervals; these can then be read via an USB interface using "WeatherProfessional" software.
- If the data logger memory is full, the system displays a timely message prompting you to download the data.

Miscellaneous

- Very simple set up menu
- An acknowledgement beep can be switched on / off as required
- Depending on the need, the device can be installed on the table or mounted on the wall
- Switching time of the display lighting can be programmed

All important weather information appears simultaneously on the display so that it is not necessary to operate the device to capture the data.

Multiple basic units can be operated simultaneously; hence the data of the sensors can be simultaneously displayed at multiple locations.

The external sensor system of WS 550 US works exclusively on wireless data transfer. You can thus install or mount the sensors at a maximum distance of 400 ft. (depending on the local conditions, see section "Range") from the base station.

Quick overview of the display fields



- 1. Current indoor temperature with temperature trend
- 2. Displays the current direction of the wind (main wind direction)
- 3. Display the fluctuation range when wind direction is changing
- 4. Displays the speed of the wind
- 5. Current humidity of the selected outdoor sensor
- 6. Current temperature of the selected outdoor sensor with temperature trend and reception display
- 7. Displays the currently selected outdoor sensor (no display if you select TX 550 US)
- 8. Moon phase display
- 9. Displays the weather forecast (sunny, bright, cloudy, rainy)
- 10. Animated multiple weather display "Oscar Outlook"
- 11. Displays speed of wind (mild, medium, strong)
- 12. Warning against turbulent weather
- 13. Frost warning
- 14. Menu bar
- 15. Trend display for air pressure: strongly increasing, slightly increasing, constant, slightly decreasing, heavily decreasing; for further details please refer concept definitions
- 16. History display, always with reference to the current value, also see 26.
- 17. Display the current air pressure
- 18. Time and Date display
- 19. Displays the sunrise and sunset time
- 20. Displays duration of sunshine
- 21. Sun symbol if the sun is currently shining, otherwise cloud symbol
- 22. Display the rain quantity
- 23. Display of set in of rain
- 24. Current indoor humidity level
- 25. Comfort zone indicator for displaying comfortable / uncomfortable climate
- 26. Symbol is displayed for the weather factor whose history is currently being displayed (indoor or outdoor temperature); if this symbol is not displayed, then the air pressure history is displayed

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2.1. Preparing the weather station

The weather station is exclusively operated via the plug-in mains adapter that is delivered. Battery operations are possible with 4 AA cells (1.5 V, alkaline type) in an emergency mode. The functions of the weather station are then available only in a restricted manner (e. g. no background lighting, no live mode available).

The following image shows the rear of the station with battery comportment, correct insertion of the batteries, assembling points for foot support and hanging. **Connecting to the mains**



Eyelet for wall mounting

First insert the round DC-plug of the AC adapter into the DC-power socket on the rear side of the device and then the AC adapter in a mains socket. Any batteries that have been inserted will get switched off.

Cover of the battery compartment

Inserting batteries

Remove the cover of the battery compartment and insert four 1.5 V AA-cells, (alkaline type LR6) according to the correct poles into the battery compartment. Close the battery compartment again.

PC-connection

To connect the station to a PC, use the USB cable to connect the mini USB jack to the USB port of WS 550 US. The plug at the other end of the cable is connected to the USB port of a PC (also see chapter 9.)

Installing / Mounting

Depending on the requirement, the weather station can be mounted on a vertical surface (such as a wall) using a hanging eye or installed on an horizontal surface using a table-stand.

The table-stands are mounted using the Allen screws and Allen key according to the following description:

Start-up (base station)



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2. Lock in the foot support in the locking nose of the glass foot and place it on the two screw domes.

3. Screw the enclosed Allen key and 2 Allen screws on the glass foot. Please note that the lighting cable of the device foot is guided in from the side as shown in the picture so that it does not get crushed.



4. Place the weather station at the locking nose of the foot support and tilt it on the foot support till the screw dome neatly grips into the corresponding intakes of the weather station.

Note!

Do not let go of the weather station till both the Allen screws have been fixed in (see next step)!

Please do not press the display when you hold the weather station. Hold the weather station only at the frame!

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5. Screw the foot support on to the weather station using the enclosed Allen key and 2 Allen screws.

6. The cables are thus connected, inserted into the foot support and guided. Please note that the cable lies exactly in the center as shown so that it will not prevent the lid from subsequently locking in.

Note!

The cable for lighting the support foot and the USB cable can only be inserted in one direction! Do not insert it using force! Stow away excessive cable in a chamber of the support.

- 7. Now place the cover for the foot support:

Insert it flat into the support intake (also see 1.), fold it upward and lock it in.

Note!

The cover should fold up easily without any resistance; otherwise, it means the cover has not been placed properly or the cable is not laid correctly in the guide!

You can see the correct guiding of the cable.

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- After connecting the plug-in AC adapter, the system will run a short test of all display segments in the display (all segments will be displayed).
- You will then hear a short beep and the version number of the weather station will be displayed.
- Finally, the inside temperature and the humidity as well as the air pressure will be displayed. The corresponding sensors are directly built in the base station.
- Now the external sensors need to be started up.

2.2. Combi-sensor TX 550 US

The combi-sensor is delivered as single parts and needs to be assembled before start-up (for further information please refer to the TX 550 US operating instructions).

- Remove the wind meter and base of the wind meter (small white cylinder), the combi-sensor and the mounting pipes from the packaging.
- Mount the weather cock according to the following description:
- Put together the pipes of the insertion mast. The sensor-holder is mounted on the



Conical side below

1. Mount the base of the wind meter on the free end of the pipe of the combi-sensor holder as shown in the diagram



2. Put cable through the foot of the windcock



3. Insert the foot into the pipe and rotate it in such a way that it can be locked in the respective holes in the pipe using the two screws

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4. Insert the plug into the socket of the wind meter

5. Push up the base and then lock it by turning it to the right

pipe-end that is marked with a sticker.

- Install the fully mounted sensor within the possible transmitter radius (max. 400 ft. free field; take into account the dampening due to building walls, etc.) so that it stands in open space - the rain can thus fall directly into the rain sensor and the wind measurement is not hampered by adjacent buildings or trees - 50 ft. clearence.

A sunny location is possible because the temperature sensor is located in a shaded and ventilated part of the housing.

- Bury the pressed end of the mast deep into the soil so that it stands securely (approx. 15 inch depending on the condition of the soil). If the combi-sensor tilts and falls, it can cause injury to persons and damage to vehicles and other objects. Please note that the manufacturer is not responsible for injury or damage.
- Once the sensor is mounted, begin start up, and point the peak of the wind meter towards the North to align the sensor. Lock, if required, the wind meter in this position on the casing with the help of an adhesive tape.

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- Open the sensor housing by rotating it towards the left and pulling down the casing (see picture below).
- Use a pointed object to press the key above the battery compartment and insert three AA Alkaline batteries according to the polarity marking in the battery compartment. Release the switch and then remove any adhesive tape that you may used to secure the wind meter.
- Bring the respective receiving station in the receiving mode according to the instructions of the corresponding Operating Instructions (also see chapter 3.1).
- Use a pointed object again to press the switch on the sensor. The receiving station should now register the data from the sensor.
- Close the casing again by pushing it upward and turning it to the right till it locks in.



Insert batteries, position of the key



The fully mounted TX 550 US Download from Www.Somanuals.com? All Manuals Search And Download.

3. Operations

The wireless sensor data is not shown on the display immediately after installing the wireless sensors and starting up the base device. As each sensor has an internal individual serial number, which is automaticly logged into the base station during start up.

The advantage here is that data is individually recorded only for those sensors that are logged in and not for other sensors, say of neighboring systems, and also not after a restart.

Please note!

If no input field is touched on entering data in the menu row for approx. 5 seconds, then the device automatically goes back to the main menu (after including/saving any settings that have been done). Hence wait for the main menu to be displayed after you have entered data. You can thus quit each menu after making the settings. Only touch the respective input fields slightly - do not press them! Do not press or hit using any object!

The values can be set faster if you touch a setting field for a longer time; the values are then forwarded faster and you do not have to keep touching the setup fields.

3.1. Log in/delete external sensors

A total of 9 external sensors of the types TX 550 US (1x), ASH 550-US, ASH 550-I US and S 550 IA-US can be logged in. (Note: The ASH 550-US, ASH 550-I US and S 550 IA-US are not currently available for purchase.)

The memory slots 1..8 are reserved for ASH 550-US (I) and S 550 IA-US.

The memory slot 9 has been reserved for the combi-sensor TX 550 US.

For unique sensor assignment in case of multiple sensors of types ASH 550-US (I), or S 500 IA-US we recommend that you first remove the batteries from all the sensors.

Logging in

- Touch the "CFG" field in the menu row.
- You will see:

NEXT

CLEANING

ENTER

- Touch the "NEXT" field, the display is:

NEXT	SENSOR	ENTER
------	--------	-------

- Touch the "ENTER" field, the display is:

SENSOR	NO 1	ADD	DEL
SENSOR	NO 1	ADD	DEL

- Repeatedly touch the "SENSOR" field and select the memory slot where you want to store the particular sensor. Please note that TX 550 US can only be stored in slot 9.
- Then select "ADD"; the display is (for e.g. for sensor 9: TX 550 US):

SENSOR NO 9 SYNC ADD DI

- The particular sensor is now taught to the system. Insert the batteries in the respective sensor and press its key to teach. Please also read chapter 2.2 for starting up TX 550 US and the operating instructions of the other sensor types. The TX 550 US data is then displayed automatically (after max. 6 minutes) in the corresponding fields of the display - that of the remaining sensors after selecting the memory slot ("sensor" field) in the "OUTDOOR" display field.

Marking the populated memory slots

Memory slots that have already been populated are marked as "**USED**" behind the memory slot number.

However, this does not indicate whether the respective sensor is actually active. You can identify it only from the missing or outdated data when you select the sensor and from the active reception indicator in the "OUTDOOR" field.

Deleting a sensor assignment

The serial number of a sensor can be deleted from the sensor memory, if required.

- First proceed according to the instructions given under "Logging in"; select the desired sensor and then select the "**DEL**" option instead of the "ADD" option.
- The "USED" lettering of the sensor number is deleted and the memory slot is thus released again for logging in a sensor.

Tip for initial senor set-up

To ensure proper set-up, please have the sensors and the receiving station 3 to 5 feet apart. Note: The distance should not be less than 3 feet (1 m) apart.

3.2. Operations

As all important data is displayed simultaneously in the display, operations are basically restricted to selecting other sensors or some other weather data by slightly touching the corresponding display field.

The display is divided into display field and menu row. In the normal mode (device is in the main menu):

MIN MAX	RESET		CFG	
are accessible by touchi functions:	ng the respective field	ls of the display	for the	e following
INDOOR:	Switching between te ("DEWPOINT")	emperature and	dewpo	int display
OUTDOOR:	Switching between te ("DEWPOINT") and w	emperature and indchill display	dewpo	int display
HUMIDITY:	No function			
SENSOR:	Switching between th 18:	e external senso Additional senso for purchase.	rs: ors not	available
	No display:	TX 550-US		
RAIN:	Switching between tot ("total"), current hour (rent day ("current 24) for hour: always at xx: 7:30 a. m.)	al rain quantity s "current 1h"), las h") and last day 30 hours; storage	ince the t hour (("24h") for day	e last reset "1h"), cur- . (Storage : always at
SUNSHINE DURATION:	: Switch between the sunshine duration of the current day ("h/day") and total sunshine duration since the last reser ("h")		eurrent day e last reset	
TIME/DATE:	No Function			
WIND:	Switch the numeric km/h, m/s, mph and v	display between wind direction in	wind degree	velocity in s
AIR PRESSURE:	Switch the air pressure display between the pressure measured on site ("absolute") and the pressure scaled down to sea level ("relative")		e pressure ure scaled	
HISTORY:	Switch the trend displ pressure, inside tempe the displayed sensors	ay of the last 24 h erature and outsic s), also see point	ours b de temp 26 on ן	etween air berature (of bage 7
Weather icon:	No function			

Main Menu Functions

MIN: Call up the minimum values

After touching the "MIN" area, the minimum values of the respective data are displayed. When you touch the corresponding field (temperature, air pressure, etc.), the corresponding time-stamp (date, time) of the occurrence of the extreme value are displayed.

You will go to the main menu and normal data display if your press "MIN" again.

MAX: Call up the maximum values

After touching the "MAX" area, the maximum values of the respective data are displayed. When you touch the corresponding field (temperature, air pressure, etc.), the corresponding time-stamp (date, time) of the occurrence of the extreme value are displayed.

You will go to the main menu and normal data display if your press "MAX" again.

RESET: Reset certain values

This menu has three sub-menus for resetting the cumulated sunshine duration ("SUN"), rain quantity ("RAIN") or MIN-MAX-memory ("MIN-MAX"): Activate "RESET". The first RESET menu is displayed:

RESET RAIN C	ж	
--------------	---	--

Repeatedly activate the "RESET" area and select the desired option and then confirm by touching "OK". The corresponding data is now deleted and the system automatically returns to the main menu and normal data display.

However, if you do not want to delete data, then wait till the device returns to the main menu. No data will be deleted.

CFG: Calling up the Configuration Menu

3.3. Configuration

The weather station is delivered in such a state that its basic functions (except moon phase, sunrise, sunset, date, time, min./max. display) are ready to use without doing any settings. However, another configuration would be needed to use the additional functions and the time-related functions.

- Touch "CFG" field to open the configuration menu.
- Repeatedly touch "NEXT" to go to the respective next main menu point of the configuration menu. You will find in the appendix a quick reference guide to access the different menus.

3.3.1. "SENSOR" menu, Login/ Delete sensors

see 3.1.

3.3.2. "TIME/DATE" menu, Set the time and date

- Select "TIME/DATE" menu:

NEXT	TIME/DATE	ENTER

- Touch the "ENTER" field, the display is:

TIME	24H

- Touch the "24H" area to select between time display in 12 and 24 hour format.
- Touch the "TIME" field, the display is:

YEAR + 2006 -

- Touch the "+" or "-" areas to set the year.
- Touch the "YEAR" field, the display is:

MONTH	+ 07 -
-	-

- Touch the "+" or "-" areas to set the month.
- Touch the "MONTH" field, the display is:

DAY + 01 -	
------------	--

- Touch the "+" or "-" fields till today's date (system date) is set.
- Touch the "DAY" field, the display is:

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WEEKDAY

+ MON -

- Touch the "+" or "-" areas to set the day of the week.
- Touch the "WEEKDAY" field, the display is:

HOUR	+ 01 -

- Touch the "+" or "-" areas to set the hour.
- Touch the "HOUR" field, the display is:

- Touch the "+" or "-" areas to set the minute.
- Wait for a few seconds, then the time and date along with sunrise and sunset times for the factory setting (39.8/-77.0 degress, Washington D.C.) and the current moon phase will appear on the display.

3.3.3. "UNITS" menu, Set the display units

- Select the "UNITS" menu:

- Touch the "ENTER" field, the display is:

TEMPERATURE	DEG C

- Touch the "DEG" field to switch the display between degrees Celsius (C) or Fahrenheit (F).
- Touch the "TEMPERATURE" field, the display is:

PRESSURE	HPA	
PRESSURE	HPA	

- Touch the "HPA" field to switch the air pressure display between hPa (HPA), mmHg (MMHG) and inHg (INHG).
- Touch the "PRESSURE" field, the display is:

RAIN MM

- Touch the "MM" field to switch between rain quantity display in mm (MM), inch (INCH) or I/m² (L/M2).
- Wait for a few seconds; the data will then be displayed in the units that have been set earlier.

3.3.4. "POSITION" menu, Set position

The position details of the weather station location are needed to calculate the sunrise and sunset times. You can enter the latitude in a range between -60.0° and $+60.0^{\circ}$ and the longitude between -180.0° and $+180.0^{\circ}$.

You can determine your position in different ways:

- The Appendix B contains a table with the coordinates for many US counties. You can select a place in your vicinity and then enter its coordinates
- If you have a GPS navigation system in the car or a mobile device you can take over the position details and you will thus have the exact location.
- You can also find out the exact coordinates from the Internet.
- Select the "POSITION" menu:

NEXT	POSITION	ENTER

- Touch the "ENTER" field, the display is:

+ 38.9 -

- Touch the "+" or "-" areas to set the latitude.
- Touch the "LATITUDE" field, the display is:

LONGITUDE

+ -77.0 -

- Touch the "+" or "-" areas to set the longitude.
- Wait a few seconds; you will then see the corrected day for sunrise and sunset in the display.

Please note that the sunrise and sunset details will really be correct at the sea or for a location on the plains. Mountains, high forests can really cut short the actual day. The details can deviate slightly even for the ideal location because an approximation formula is used for the calculations.

3.3.5. "TIMEZONE" menu, Set time zone

The time zone details are required for calculating the sunrise and sunset times. Enter the current difference to UTC (Coordinated Universal Time).

The Appendix C countains a table with the time zone difference from UTC for the US.

- Select the "TIMEZONE" menu:

- Touch the "ENTER" field, the display is:

- Touch the "+" or "-" areas to set the longitude.
- Wait a few seconds; you will then see the corrected day for sunrise and sunset in the display.

3.3.6. "LIGHTING" menu, time setting for the background lighting and regulating the brightness of the lightening

In this menu you can set the switching time for the background lighting that automatically switches on when you touch the screen and switches off after a set period. This can range from "OFF" (lighting never switches on), to periods between 5 seconds and 10 minutes till permanent lighting (ON). Further, you can also set the times when the lighting should permanently be on.

You can also activate/deactivate an automatic adjustment to the surrounding brightness so that the display is optimally legible under all surrounding conditions.

The background lighting can only be used if you are connected to the AC adapter!

- Select the "LIGHTING" menu:

NEXT LIC	GHTING	ENTER
----------	--------	-------

- Touch the "ENTER" field, the display is:

LIGHTING	+ 10 SEC -
LIGHTING	T IU GLU -

- Touch the "+" or "-" areas to set the switch-on time.
- Touch the "LIGHTING" field, the display is:

BRIGHT CTRL

ON

- Touch the "ON" field to switch between "Automatic Brightness Control" being active (ON) or deactive (OFF).
- Touch the "BRIGHT CTRL" field, the display is:

BEGIN

+04.00 PM-

- Touch the "+" or "-" fields to set the switching-on time of the lighting (permanent lighting).
- Touch the "BEGIN" field, the display is:

+11.45 PM-

- Touch the "+" or "-" fields to set the switching-off time of the lighting (permanent lighting).
- Wait for a few seconds, the device switches back to the normal mode and the data that has just been set gets activated.

3.3.7. "SYSTEM" menu, System settings

In this menu you can do the settings for automatic daylight saving time switching (DST, also see Appendix), for activating the beep (BEEP), for data recording interval of the data logger (INTERVALL), for location altitude (ALTITUDE) and for comparing the rain sensor (RAIN CAL) and for comparing the brightness threshold for the sunshine duration (SUN CAL).

Activate/deactivate Beep

- Select the "SYSTEM" menu:

NEXT SYSTEM ENTER	2
-------------------	---

- Touch the "ENTER" field, the display is:

BEEP ON

- Touch the "ON" field to switch between "Beep" being activated (ON) or deactivated (OFF).

Activate/ deactivate the daylight saving time switching

- Select the "SYSTEM" menu and then the "DST" option (via BEEP); the display is:

DST	ON	
-----	----	--

- Touch the "ON" field to switch between "daylight saving time switching" being activated (ON) or deactivated (OFF).

Set the data recording interval for the data logger

The data recording interval for the data logger defines the intervals at which the integrated data logger records are to be recorded. If you select a shorter interval, then the recording time is also short and the record will be a detailed one. If the intervals are longer, then the possible recording time is also longer and the resolution of the weather data is lesser.

- Select the "SYSTEM" menu and then the "INTERVALL" option (via BEEP, and DST); the display is:

INTERVALL	+ 05 -
-----------	--------

Touch the "+" or "-" fields to set the interval time (OFF (data logger is off), 5 minutes to 60 minutes). You will find in the following section a few examples for the relationship between interval time and recording time

Interval time	Max. Recording time
5 minutes	10.4 days (250 hours)
10 minutes	20.8 days (500 hours)
30 minutes	62.5 days (1500 hours)
60 minutes	125 days (3000 hours)

"ALTITUDE", Adjust the location height above sea level

The standard altitude is used for calculating the relative air pressure at sea level with reference to the absolute air pressure at the location. This relative value is important as a reference for correctly interpreting the weather reports that refer to the relative air pressure.

- Select the "SYSTEM" menu and then the "ALTITUDE" option (via BEEP, DST and INTERVALL), the display is:

You can determine your height above sea level in different ways:

- You can find the height in a topographic map or ask your local land registry office.
- If you have a GPS navigation system in the car or a mobile device you can take over the position details and you will thus have the exact location.
- You can also find out the height above sea level from the Internet.

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ALTITUDE

ENTER

- Touch the "ENTER" field, the display is:

ALTITUDE + 0000 -

- Touch the "+" or "-" fields to set the geographical altitude of this location above sea level (height above sea level)
- Wait for a few seconds; the corrected data for the relative air pressure will then appear on the display.

Alternatively, the value can also be entered via the optional PC program.

"RAIN CAL", Enter the comparison value for the rain sensor

The rain quantity measurement system has a high level of accuracy when it leaves the factory; so normally, no adjustments are required.

The comparison value must first be determined in the normal mode according to the steps described in "Calibrating the rainfall measurement recorder".

- Select the "SYSTEM" menu and then the "RAIN CAL" option (via BEEP, DST, INTERVALL, ALTITUDE); the display is:

RAIN CAL

ENTER

- Touch the "ENTER" field, the display is:

RAIN CAL + 295 -

- Touch the "+" or "-" fields to set the value that has been calculated earlier.
- Wait for a few seconds; the device will then go back to the normal mode. Alternatively, the value can also be entered via the PC program.

"SUN CAL", Configure brightness threshold value for duration of sunshine

The weather station WS 550 US finds out the sunshine duration along with the combi-sensor TX 550 US. The threshold value is set at the base station and transferred to the combi-sensor. The latter performs the data evaluation:

Received brightness is higher than the threshold value \rightarrow Sun is shining Received brightness is lesser than the threshold value \rightarrow Sun does not shine

The brightness limit can be used to customize the sensor to the local conditions. The threshold value should be defined at the start and end of sunshine so that the current brightness value can be referred to the threshold.

- Select the "SYSTEM" menu and then the "SUN CAL" option (via BEEP, DST, INTERVALL, ALTITUDE, RAIN CAL), the display is:

- Touch the "ENTER" field, the display is:



- Touch the "+" or "-"areas to set the threshold value. The setting area ranges from 0 to 255.
- Wait a few seconds; the device switches back to the normal mode.

¹ You cannot directly convert to the brightness intensity unit Lux.

3.3.8. "CLEANING", menu, Cleaning mode

As the display gets dirty due to touching, it needs to be cleaned now and then using a dry soft cloth (the best option is to use a spectacles cleaning cloth; however, do not use any cleaning liquids as they can damage the display). To prevent the station from getting displaced while cleaning, there is a cleaning mode where all the touch fields are locked for approx. 20 seconds.

- Select the "CLEANING" menu:

NEXT CLEANIN	ENTER
--------------	-------

- Touch the "ENTER" field, the display is:

CLEANING S'	TART
-------------	------

- Touch the "START" field, the display is:

CLEANING

WAIT

- The display can now be cleaned. Normal display resumes after 20 seconds.

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3.3.9. "LIVE MODE" menu, call up the current weather data flow

In this mode, another key of the combi-sensor can be prompted to send its measurement data for 20 seconds at 2 seconds interval. Thus, at the press of a key one has the latest weather data and can thus follow the wind direction and the trend of wind velocity for say 20 seconds.

As the combi-sensor frequently goes into the receive mode when the "LIVE MODE" is activated, its power consumption increases and this has an effect on the life of the battery. Hence you can use the "LIVE MODE" to set a period for which the "LIVE MODE" should be activated.

In this period, the main menu bar will show the additional "REQ" key that was used to query the above-mentioned live data.

- Select the "LIVE MODE" menu:

NEXT	LIVE MODE	ENTER
	-	

- Touch the "ENTER" field, the display is:

BEGIN

- Touch the "+" or "-" fields to set the switching-on time of the "LIVE MODE".
- Touch the "BEGIN" field, the display is:

END

+11.45 PM-

+04.00 PM-

- Touch the "+" or "-" fields to set the switching-off time of the "LIVE MODE".
- Wait for a few seconds, the device switches back to the normal mode and the data that has just been set gets activated.
- In the menu bar, data transfer to the combi-sensor is indicated with the message: "WAIT FOR TRANSMISSION". The weather station cannot be operated till this display is on.
- The REQ key for calling data appears in the menu when the "LIVE MODE" is activated:

MIN MAX RESET REQ CFG

3.4. Other Functions and Displays

Display moon phases

The moon phases are displayed using the following symbols:



Moon phase may vary from your calendar by 1-2 days. Also keep in mind that the moon display will be blank during a new moon and dark during a full moon.

Oscar Outlook

Oscar Outlook is an animated figure that simultaneously displays multiple weather factors:

Outside temperature (only combi-sensor)

- The clothing status is based on how high the temperature is on the combisensor.

Rain

- If the weather forecast has announced rain, then the figure holds a closed umbrella.
- The figure carries an opened umbrella when it starts raining.

Wind velocity

If the wind velocity is higher than 12.4 mph (20 km/h, medium wind) Oscar Outlook's hair starts fluttering. At the same time, if the temperature is below 57.2 °F (14 °C), then even the scarf he is wearing starts fluttering.

Weather forecast

- The weather forecast symbols indicate the following forecasts:

\cdot Clouds with rain	\rightarrow	Rainy
· Clouds	\rightarrow	Cloudy
\cdot Clouds with sun	\rightarrow	Bright
· Sun	\rightarrow	Sunny

Wind symbol display (wind sock)

- The wind sock symbol in the forecast display field shows at a glance whether the wind is currently mild, medium or strong:

\cdot Wind sock is hanging down	\rightarrow	mild wind	(<6.2 mph)
\cdot Wind sock is raised half	\rightarrow	medium wind	(6.2 to 12.4 mph)
\cdot Wind sock is horizontal	\rightarrow	strong wind	(>12.4 mph)

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Immediate Rain Display

- The onset of rain is notified to the base station during the next wireless data transmission and is indicated through a cloud in the "RAIN" field and through the opened umbrella of "Oscar Outlook".

Comfort Indicator

- The **Comfort Indicator** (🗵 🙂 🙂) reflects the climate in the room (ratio of temperature to humidity). The Appendix contains a value table for the display areas.

History

- The bar diagram shows the history of air pressure, outside or inside temperature for the last 24 hours. The individual columns are not an absolute value but only the difference to the currently measured value (0h column). This reference point is always located in the center (4 bars) so that the trend is visible at a single glance (see also page 18).

Data memory

- If the data memory is almost full, the menu bar displays the message:

MEMORY ALMOST FULL

ΟΚ

- Touch and confirm this input field and download the collected data using the PC.

Data transfer to the combi-sensor "WAIT FOR TRANSMISSION"

- When the "WAIT FOR TRANSMISSION" message is displayed in the menu bar, the weather station transfers data to the combi-sensor, i.e. it activates the live mode or the configuration data of the sunshine duration.

This transaction can take a few minutes; the weather station cannot be operated during this period.

Temperature trend display

- On the right, next to the temperature display, a trend arrow is displayed next to the display fields "Indoor" and "Outdoor" if the temperature in the last transmission interval has increased (upward arrow) or decreased (downward arrow).

Sensor Status Display

- In the outdoor sensor display field ("Outdoor") there is a small reception indicator to indicate the sensor status:
 - Reception indicator is displayed → Sensor data is being received constantly
 Reception indicator is blinking → Sensor data is not being received since the last 40 min.
 Reception indicator is missing → Sensor does not exist, permanently out of order or defect

Warning against turbulent weather

- When a low pressure area is suddenly formed, there is a warning symbol in the display field of the weather forecast. This is an indicator of an upcoming storm or thunderstorm.

Frost warning

- A snow-flake symbol is displayed in the weather forecast field if the temperature measured at the combi-sensor falls below 39.2 °F (4 °C).

4. Changing the batteries

Base station

When the battery empty symbol appears in the INDOOR display area (), then all batteries are to be replaced according to the instructions in section 2.1 with those of the same type.

Always change all the 4 batteries and use only high-quality alkaline batteries. Leave the AC adapter connected when you are changing the batteries so as to avoid data loss.

This Display Unit is designed to run on a/c power. Due to the power requirements of the Display Unit, it ist not recommended to use batteries only for more than a few hours. It ist possible to lose connection with the Combi Sensor if using batteries only.

Please note!

The data memory is deleted if you do not connect the AC adapter while replacing the batteries.

Wireless sensors

The batteries in these sensors have a lifetime of max. 2 years (alkaline batteries). They are to be replaced when a 'battery empty' symbol (

Batteries are replaced in TX 550 US according to the instructions in section 2.2.; the instructions for the other sensors are to be found in the respective operating instruction manuals.

Please follow the battery disposal regulations! Do not dispose of disposable and rechargeable batteries as part of household garbage!

5. Troubleshooting

Possible disruptions that can hamper proper display of the transmitted measured values are:

No reception - the distance between the transmitter and receiver is too much or too less (<3 ft., 1 m).

Reduce or increase the distance between the transmitter / receiver.

No reception - there are highly resistant materials (thick walls, steel concrete, ...) located between the transmitter and the receiver

Relocate the transmitter or receiver. Also see chapter 6 ("Range").

No reception - transmitter batteries are empty.

Replace batteries.

No reception - transmitter is covered by the disturbance source

(Wireless device, wireless headphone/ loudspeaker)

Remove the source of the fault and look for another position for the transmitter and receiver. Such disturbances are only for a short period (wireless traffic) or can be rectified in a very simple manner. Any wireless headphones, wireless baby phones or similar devices are operated at a frequency of 916.5 MHz in your house or in the vicinity only for a short duration. Most of these devices are enabled for exchanging signals at an interruption-free frequency. Such a measure can effectively fade out all interruptions.

No reception - Log in of sensor was not successful.

Execute log in procedure again. Refer page 13 of the manual and follow the instructions of the receiver station.

Inaccurate rain

Be sure rain gauge is assembled correctly, with drain holes aligned. Check that sensor assembly is not tipped, but straight into ground. Check rain gauge for debris that may be blocking the funnel, rocker (pointer) or drain hole. Check that the rocker (pointer) is set properly. Is the rain measurement unit correct? Ex: mm, inch or I/m². Check the calibration of the rain sensor according 6.2.

Inaccurate wind

Check that sensor assembly is not tipped, but straight into ground. Are surrounding areas clear of trees, buildings and other obstructions? Check that the cups spin freely. Is the wind measurement unit correct? Ex: mph. m/s or km/h.

No sunshine duration

Check that sensor assembly is not tipped, but straight into ground. Check for debris in vented cap. If possible: Adjust sunshine calibration. Follow the instructions of the receiver station.

No Min/Max display

Has time and date been set?

Sunrise/set time wrong

Has time and date been set? Has latitude and longitude been set? Has time zone been set?

Wireless sensor is disrupting the functioning of other devices in the 916 MHz band.

The transmission of the wireless outdoor sensor can be briefly interrupt (every 2-3 minutes for approx. 100 ms) the functioning of other devices on the same channel.

Other instructions for start-up or troubleshooting

Turn the receiving weather station slightly; if there is no reception, mount it away from electrical motors, electrical machines, televisions, computer monitors and large metal surfaces. Also see chapter 13 (FCC Information)

To simplify start-up, you can also bring the sensors first close to the base station (min. 3 ft. distance). You can then properly control the data transmission from the sensor.

6. Range

The free-field range for visual contact between transmitter and receiver is 400 ft. (120 m) under optimal conditions. Walls and even steel concrete structures may be penetrated; however, the range is then reduced accordingly. Reduced range can be caused by the following:

- · High frequency disturbances of all types
- · All types of structures or vegetation
- The distance between the sensor and the receiver to the conducting areas or objects (and even to the human body or the earth) has an effect on the transmission properties and in turn the range.
- Broadband disruptions in city areas can reach levels that reduce the signal-noise distance in the entire frequency range and in turn reduce the range.
- Devices with adjoining working frequencies can also have an effect on the receiver.
- · PCs with poor shielding can interfere with the receiver and reduce the range.

7. Instructions for Maintenance and Care

- Protect the base station against dust and moisture. Never clean it with chemical detergents; just use a soft dry piece of linen. Do not put any pressure on the display.
- The outdoor sensor is to be cleaned from time to time to remove the dirt and dust that has settled on it. Check easy accessibility of the wind sensors and ensure that the sensors are fitting tight on the holder.

7.1. Cleaning the rain quantity sensor

- Depending on the location, leaves, dirt, sand and branches blown by the wind get collected in the collection funnel of the rain quantity sensor. Larger parts can block the passage. Sand can also accumulate on the pointer; large deposits of it can hamper the measurement result.
- Hence the rain quantity sensor is to be cleaned from time to time at least once a year. The pictures shown below are a guideline for installing / dismantling.
- For cleaning the sensor, just remove the sensor housing by slightly turning it to the left.
- Further, the collection funnel can also be removed by turning it to the left.
- The rainfall sensor is now moved upward, folded towards the cable side and you can now remove the pointer.
- Clean the collection funnel, contacts, counter and the drain-hole in the housing and remove all residues.
- Place the counter back in its holder. The magnet of the counter should be on the side that faces the cable.



- Insert the rain sensor in its holder. It will also automatically hold the pointer. The rain sensor cable and the magnet of the pointer must be located on the same side.
- Now place the collection funnel from the top on to the sensor-holder and lock it in by turning it to the right.
- Now reinstall the casing and lock it by turning it to the right in the sensor-holder till it locks in. Ensure that the drain-holes of the casing and the sensor-holder match (drain-hole of the casing points outwards).

7.2. Setting the rain sensor

The rain quantity measurement system has a high level of accuracy when it leaves the factory; so normally, no adjustments are required. Adjustments would be necessary only if the accuracy requirements are very

Adjustments would be necessary only if the accuracy requirements are very high.

Before you start calibrating the rain water measurement recorder, you need to reset to zero the rainfall quantity value that has already been totaled up (see chapter 3.2. "RESET"), total rain quantity display stands at zero). Further, the rainfall quantity for adjustments must be displayed in "inch".

Proceed as follows for exact calibration:

1. Slowly pour 3.38 fl. oz. (100 ml) water over a period of 10 minutes in the rain sensor collection funnel.

Note!

Quick pouring will give wrong measurement results! Pour the water so slowly into the funnel that there is a even passage of water and there is no water in the funnel at any point of time.

- 2. The displayed total quantity should now be 0.26 inch (6.5 l/m²).
- 3. If a different value is shown, then the calibration value that is mentioned is to be recalculated as follows:

0.26 x Current calibration value

New calibration value =

Actual value (Display reading after filling in the water)

The new calibration value must now be entered in the configuration menu (see 3.3.7., System menu/RAIN CAL).

The factory setting is 295/pointer stroke.

8. Technical Specifications

Measurement interval for outdoor sensors	2-3 min
Measurement interval for indoor sensor (Temperature,	humidity)3 min
Interval for measuring air pressure	15 min
Transmission frequency	916.5 MHz
Outdoor range:	max. 400 ft. (120 m)
Indoor temperature range:32 °F	^c to 140 °F (0 °C to 60 °C)
Resolution:	0.1 °F
Accuracy:	±1.8 °F (59 °F to104 °F)
Outdoor temperature range (TX 550 US):20 °F to 17	5.8 °F (-29 °C to 79.9 °C)
Resolution:	0.1 °F
Accuracy:	. ±1.4 °F (50 °F to 104 °F)
Measurement range rel. humidity (inside/outside)	1% rH - 99 % rH
Resolution:	1 % rH
Accuracy:	± 5 % rH (30-70 % rH)
Rain quantity display:0 to	o 39.3 inch (0 to 999 mm)
Evaluation interval:	last hour: at xx:30 hrs
	day: at 7:30 a.m.
Resolution:	up to 10 inch: 0.01 inch
	above 10 inch: 0.1 inch
Wind velocity:0 t	o 124 mph (0 to 200 kph)
Resolution:	. up to 100 mph: 0.1mph
	above 100 mph: 1 mph
Wind direction:	0° to 355°
Resolution:	
variation range:	$\pm 0^{\circ}; \pm 22.5^{\circ}; \pm 45^{\circ}; \pm 67.5^{\circ}$

Voltage supply:

0 11 3	
Base station (Main power supply):	.7.5 V DC via plug-in mains adapter
Base station (back-up power supply):	4 x Battery AA cells
TX 550 US:	3 x Battery AA cells
Dimensions Base station without foot (W x H	x D):10.2 x 8.5 x 1.3 inch

Instructions for disposal

Do not dispose of the device as part of household garbage!

9. PC connection - Software Installation

The following are the system requirements for operating the "WeatherProfessional" software:

- · Operating system Windows 2000/XP VISTA
- \cdot Min. 1 GHz Processor cycle frequency, min. 256 MB RAM
- \cdot Approx. 150 MB available hard disk space for the program
- \cdot Approx. 100 MB available hard disk space for the database
- · The file system must be formatted in NTFS (Standard Option)
- · Windows Installer Service must have been installed (Standard Option)

The enclosed USB cable with type A connector and mini type B connector is required for connecting to the USB port.

- Connect the weather station via the USB cable to the USB port of the computer.
- After a short period, the PC detects a new USB device and then asks for its driver.

The installation wizard is displayed.

- Please insert the enclosed CD-ROM and wait till the "Welcome" screen is displayed.
- Then go back to the "Installation Wizard" and select the "Automatic Search" option.
- Then follow the instructions of the "Installation Wizard" till you finish installing the driver.
- Then go back to the WeatherProfessional that describes the four steps for the setup. Start here at point 2.
- Follow the instructions step-by-step till you complete the installation. You can then start the "WeatherProfessional" program via the desktop or the program menu.
- You will find the program description in the Help menu under "Manual".

Firmware Update

You can update the firmware of the WS 550 US main controller via the USB port of WS 550 US using the software delivered along with the device.

- Start the update program of "WeatherProfessional "software (Menu "Tools", "Firmware Update") and follow the instructions of the program.

Note:

If you have started the update procedure by mistake, then the same can be cancelled at any time up to step 5. If the update mode has also been activated in the device according to the software instructions, then disconnect the weather station for a few seconds from the USB and the plug-in mains adapter and remove the batteries from the device. This will not hamper the functioning of the device; it will continue to work further with the existing firmware when you restart.

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10. Appendix

Dewpoint - Temperature point that is independent of the interaction between a specific air pressure level, a specific temperature and a certain level of humidity. The humidity in the air starts to condense at this point, the so-called dew; the humidity condenses and precipitates as liquid (mist, vapor). If the dewpoint for water vapor is below 32 °F (0 °C), then there is condensation in the form of snow or hoar frost.

Weather forecast - Forecast about weather symbols calculated from the increasing or decreasing speed of air pressure (trend).

These changes in the air pressure speed is the most decisive dimension for the forthcoming weather; the absolute value has a lesser role to play. One can generally say that the increasing air pressure would mean better weather and falling air pressure would then be a sign of bad weather.

Windchill-Equivalent-Temperature - A fictional temperature that is felt by human beings under certain conditions instead of the measured temperature and which can be taken into account during low temperatures (for e.g. under 44 °F) to find out how one would feel at certain temperatures, wind velocities and corresponding clothing. These conditions are a temperature below 91.4 °F (33 °C) and a wind velocity above 5.8 mph (2.6 m/s). Windchill is defined as the cooling effect of the naked skin at assumed constant 91.4 °F (33 °C) skin surface temperature.

The higher the wind velocity and the lower the actual temperature, the stronger is then the windchill effect.

The "felt" temperature is an approximation that can be compared to the so-called feeling about the temperature and is taken into account along with the effect of the emission effects of the sun, light reflection of the clouds, the light wave length, etc.

Wind strength table (Beaufort)

Beaufort	Wind velocity km/h	Wind velocity mph	Description
0	0 - 0.7 km/h	0 - 0.4 mph	calm
1	0.7 - 5.4 km/h	0.5 - 3.6 mph	light air
2	5.5 - 11.9 km/h	3.7 - 7.4 mph	light breeze
3	12.0 - 19.4 km/h	7.5 - 12.1 mph	gentle breeze
4	19.5 - 28.5 km/h	12.2 - 17.7 mph	moderate breeze
5	28.6 - 38.7 km/h	17.8 - 24.0 mph	resh breeze
6	38.8 - 49.8 km/h	24.1 - 30.9 mph	strong breeze
7	49.9 - 61.7 km/h	31.0 - 38.3 mph	near gale
8	61.8 - 74.6 km/h	38.4 - 46.4 mph	gale
9	74.7 - 88.9 km/h	46.5 - 55.2 mph	strong gale
10	89.0 - 102.4 km/h	55.3 - 63.6 mph	storm
11	102.5 - 117.4 km/h	63.7 - 72.9 mph	violent storm
12	> 117.4 km/h	> 72.9 mph	hurricane

Comfort indicator

The symbol of the comfort indicator (the three different "smiles" \odot \odot \otimes) reflect the room climate whereby the weather station works according to the following table:

Temperatur	е	air hu	midity							
	20%	30%	35%	40%	45%	50%	55%	60%	65%	70%
<64.4 °F	$\overline{\mbox{\scriptsize (s)}}$	$\overline{\mbox{\scriptsize (S)}}$	$\overline{\mbox{\scriptsize (s)}}$	$\overline{\otimes}$	$\overline{\mbox{\scriptsize (S)}}$	$\overline{\mbox{\scriptsize (S)}}$	$\overline{\otimes}$	$\overline{\otimes}$	$\overline{\otimes}$	$\overline{\mbox{\scriptsize (s)}}$
64.4 - 67.8 °F	$\overline{\mathbf{O}}$	$\overline{\mathbf{O}}$	$\overline{\mathbf{O}}$	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	$\overline{\mathbf{O}}$
67.9 - 71.4 °F	$\overline{\mathbf{O}}$	$\overline{\mathbf{O}}$	$\overline{\mathbf{O}}$	\bigcirc	\odot	\odot	\odot	\odot	\bigcirc	$\overline{\mathbf{O}}$
71.5 - 75.0 °F	$\overline{\mbox{\scriptsize (s)}}$	$\overline{\mbox{\scriptsize (i)}}$	\bigcirc	\odot	\odot	\odot	\odot	\bigcirc	$\overline{\mathbf{i}}$	$\overline{\mbox{\scriptsize (i)}}$
75.1 - 78.6 °F	$\overline{\mbox{\scriptsize (s)}}$	\bigcirc	\odot	\odot	\odot	\odot	\bigcirc	$\overline{\mbox{\scriptsize (i)}}$	$\overline{\mathbf{i}}$	$\overline{\mbox{\scriptsize (i)}}$
78.7 - 82.2 °F	$\overline{\mbox{\scriptsize (s)}}$	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	$\overline{\mbox{\scriptsize (i)}}$	$\overline{\mathbf{i}}$	$\overline{\mbox{\scriptsize (i)}}$
over 82.2 °F	$\overline{\mbox{\scriptsize (s)}}$									

One can thus see that depending on the relationship of the temperature to humidity, there are certain marked ranges that can be defined as comfortable or uncomfortable climate. One would thus feel that at a temperature of 77 °F (25 °C) and a humidity of less than 30% is very dry (for e.g. air from the heaters) and one above 60% as sultry.

Daylight saving time switching

The integrated clock implements an automatic daylight saving time switching according to the regulations of the "Energy Policy Act of 2005".

11. Proper use, Exclusion of warranty, Safety instructions

- This weather station is meant for personal use as an indicator of the forthcoming weather. The forecasts or predictions made by this device are more for orientation and are not to be construed as absolute forecasts.
- The manufacturer of the weather station does not assume any liability for incorrectly measured values and consequences that can result from it.
- This weather station is not meant for medical purposes or for informing the public.
- The components of this weather station are not a toy; they contain many fragile, glass and small parts. Please install all the components out of the reach of children.

12. Wireless technology BidCoS™



BidCoS (Bidirectional Communication Standard) is a new wireless standard that has been specially developed for wireless control of sensors and actors for house automation. It allows you to build an entire house controlling system with compatible components: switch/dim lights and other electrical appliances, air-conditioners (heating, cooling, airing, weather measuring technology, energy management, access control, protection against burglary, safety devices, etc.). Speedy bi-directional communication (wireless signals that are sent are confirmed by the receiver) increases the functional safety and thus form the basis for a multitude of options for remote control / remote monitoring.

Bi-directional data transfer of WS 550 US to TX 550 and all additional sensors works according to BidCoS Standard.

13. FCC Information

Contains FCC ID: RNT-TRX916

Changes or modifications not expressly approved in writing by La Crosse Technology may void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The internal antenna used for this mobile transmitter must provide a separation distance of at least 7.874 in (20 cm) from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

DoC Statement

This device, trade name La Crosse, model number WS 550 US complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation

The responsible party for this device compliance is:

La Crosse Technology

2809 Losey Blvd South

La Crosse, WI 54601, USA

(001) 608-782-1982

Appendix A: Menu Overview WS 550 US



Appendix B: Table of latitude/longitude of US counties.

State	County	Latitude	Longitude	AK	Prince of Wales	55.6	-132.6
AL	Autauga County	32.5	-86.6	AK	Sitka City and Borough	57.1	-135.3
AL	Baldwin County	30.6	-87.7	AK	Skagway-Hoonah-Angoon	58.3	-135.5
AL	Barbour County Bibb County	31.9	-85.3	AK	Southeast Fairbanks	63.6	-143.9
	Blount County	34.0	-07.1		Wade Hampton	62.1	-143.3
AL	Bullock County	32.1	-85.7	AK	Wrangell-Petersburg	56.7	-133.1
AL	Butler County	31.7	-86.7	AK	Yakutat City and Borough	59.8	-140.3
AL	Calhoun County	33.7	-85.8	AK	Yukon-Koyukuk	65.1	-151.9
AL	Chambers County	32.9	-85.3	AZ	Apache County	35.6	-109.4
AL	Cherokee County	34.2	-85.6	AZ	Cochise County	31.8	-109.9
AL	Chilton County	32.9	-86.7	AZ	Coconino County	35.8	-111.5
AL	Choctaw County	32.0	-88.3	AZ	Gila County	33.7	-111.0
	Clay County	33.3	-85.8		Greenlee County	33.1	-109.3
AL	Cleburne County	33.6	-85.5	AZ	La Paz County	33.9	-114.0
AL	Coffee County	31.4	-86.0	AZ	Maricopa County	33.5	-112.1
AL	Colbert County	34.7	-87.7	AZ	Mohave County	35.3	-114.1
AL	Conecuh County	31.4	-87.0	AZ	Navajo County	35.4	-110.3
AL	Coosa County	33.0	-86.2	AZ	Pima County	32.2	-111.1
AL	Covington County	31.3	-86.4	AZ	Pinal County	33.0	-111.5
	Cullman County	3/ 2	-00.3		Vavanai County	31.5	-110.9
AL	Dale County	31.4	-85.6	AZ	Yuma County	32.7	-114.4
AL	Dallas County	32.4	-87.1	AR	Arkansas County	34.4	-91.4
AL	DeKalb County	34.5	-85.8	AR	Ashley County	33.2	-91.8
AL	Elmore County	32.6	-86.2	AR	Baxter County	36.3	-92.4
AL	Escambia County	31.1	-87.2	AR	Benton County	36.4	-94.2
AL	Etowah County	34.0	-86.0	AR	Boone County	36.3	-93.1
AL	Fayette County	33.7	-87.8	AR	Bradley County	33.5	-92.1
AL	Gonova County	34.5	-07.0		Carroll County	36.4	-92.0
AL	Greene County	32.8	-88.0	AR	Chicot County	33.3	-91.3
AL	Hale County	32.8	-87.6	AR	Clark County	34.1	-93.2
AL	Henry County	31.5	-85.3	AR	Clay County	36.4	-90.4
AL	Houston County	31.2	-85.4	AR	Cleburne County	35.5	-92.1
AL	Jackson County	34.8	-85.9	AR	Cleveland County	33.9	-92.2
AL	Jefferson County	33.5	-86.8	AR	Columbia County	33.2	-93.2
AL	Lamar County	33.8	-88.1		Craighead County	35.2 35.8	-92.7
AL	Lawrence County	34.9	-87.3	AR	Crawford County	35.5	-94.3
AL	Lee County	32.6	-85.3	AR	Crittenden County	35.2	-90.3
AL	Limestone County	34.8	-87.0	AR	Cross County	35.3	-90.8
AL	Lowndes County	32.2	-86.7	AR	Dallas County	33.9	-92.6
AL	Macon County	32.4	-85.7	AR	Desha County	33.8	-91.4
AL	Madison County	34.7	-86.6	AR	Drew County	33.6	-91.7
AL	Marengo County	32.3	-87.8	AR	Faukher County	35.1	-92.4
	Marshall County	34.1	-07.9		Fulton County	36.4	-93.9
AL	Mobile County	30.7	-88.1	AR	Garland County	34.5	-93.1
AL	Monroe County	31.6	-87.4	AR	Grant County	34.3	-92.5
AL	Montgomery County	32.3	-86.3	AR	Greene County	36.1	-90.5
AL	Morgan County	34.5	-86.9	AR	Hempstead County	33.7	-93.6
AL	Perry County	32.6	-87.3	AR	Hot Spring County	34.3	-92.9
AL	Pickens County	33.3	-88.1		Independence County	34.1	-94.0
	Bandolph County	33.3	-60.9		Izard County	36.1	-91.0
AL	Russell County	32.4	-85.1	AR	Jackson County	35.6	-91.2
AL	St. Clair County	33.7	-86.3	AR	Jefferson County	34.2	-92.0
AL	Shelby County	33.3	-86.7	AR	Johnson County	35.5	-93.5
AL	Sumter County	32.6	-88.2	AR	Lafayette County	33.3	-93.6
AL	Ialladega County	33.4	-86.2	AR	Lawrence County	36.1	-91.1
AL	Tallapoosa County	32.9	-85.8	AR	Lee County	34.8	-90.8
AL	Walker County	33.2	-87.3		Little River County	34.0	-91.7
	Washington County	31.4	-88.2	AR	Logan County	35.2	-93.8
AL	Wilcox County	32.0	-87.3	AR	Lonoke County	34.8	-91.9
AL	Winston County	34.2	-87.4	AR	Madison County	36.0	-93.7
AK	Aleutians East Borough	55.1	-162.0	AR	Marion County	36.3	-92.7
AK	Aleutians West	52.3	-172.5	AR	Miller County	33.4	-94.0
AK	Anchorage Municipality	61.2	-149.8	AR	Mississippi County	35.8	-90.0
AK	Betnel Bristal Bay Baraugh	60.9 50.7	-101.2		Montgomony County	34.7	-91.2
	Denali Borouch	63.0	-100.8	AR	Nevada County	33.7	-93.0
AK	Dillingham	59.2	-158.6	AR	Newton County	36.0	-93.2
AK	Fairbanks North Star Boroug	h 64.8	-147.6	AR	Ouachita County	33.6	-92.9
AK	Haines Borough	59.2	-135.5	AR	Perry County	35.0	-92.9
AK	Juneau City and Borough	58.4	-134.5	AR	Phillips County	34.5	-90.8
AK	Kenai Peninsula Borough	60.3	-151.0	AR	Pike County	34.2	-93.7
AK	Ketchikan Gateway Borough	55.4	-131.6		Poinsett County	35.6	-90.6
AK	Lake and Peninsula Borough	52 G	-152.7		Pone County	35.3	-94.3 _02 1
AK	Matanuska-Susitna Borough	61.8	-130.4	AR	Prairie County	34.8	-91.5
AK	Nome Census Area	64.8	-164.3	AR	Pulaski County	34.8	-92.3
AK	North Slope Borough	70.6	-153.9	AR	Randolph County	36.3	-91.0
AK	Northwest Arctic Borough	66.8	-160.6	AR	St. Francis County	35.0	-90.7

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Sebastian County	35.3	-94.4		Garrield County	39.5	-107.7
Sharp County	36.2	-94.3		Grand County	39.0 /0.1	-105.5
Stone County	35.9	-92.2	čõ	Gunnison County	38.6	-107.0
Union County	33.2	-92.6	čõ	Hinsdale County	37.8	-107.3
Van Buren County	35.6	-92.4 0	ČÕ	Huerfano County	37.6	-105.0
Washington County	36.1	-94.2 0	CO	Jackson County	40.6	-106.3
White County	35.3	-91.7 (CO	Jefferson County	39.7	-105.1
Woodruff County	35.2	-91.2	CO	Kiowa County	38.4	-102.6
Yell County	35.0	-93.4 0	CO	Kit Carson County	39.3	-102.5
Alameda County	37.7	-122.1	00	Lake County	39.2	-106.3
Alpine County	38.6	-119.9 [0		La Plata County	37.3	-107.8
Butte County	30.4	-120.7 [0		Lanimer County	40.0	-103.2
Calaveras County	38.2	-120.6	00	Lincoln County	30.1	-103.6
Colusa County	39.2	-122.2		Logan County	40.7	-103.1
Contra Costa County	37.9	-122.1	čõ	Mesa County	39.1	-108.5
Del Norte County	41.7	-124.1	CO	Mineral County	37.7	-106.9
El Dorado County	38.8	-120.6	CO	Moffat County	40.6	-108.1
Fresno County	36.6	-119.9 (CO	Montezuma County	37.4	-108.6
Glenn County	39.6	-122.3	CO	Montrose County	38.4	-108.2
Humboldt County	40.7	-124.0 0	00	Morgan County	40.3	-103.8
Imperial County	33.0	-115.5 (Ourov County	38.0	-103.7
Korn County	30.7	-119.7 (Park County	30.1	-107.0
Kings County	36.2	-119.8	00	Phillips County	40.6	-102.4
Lake County	39.0	-122.8	čõ	Pitkin County	39.2	-106.9
Lassen County	40.6	-120.7	čõ	Prowers County	38.1	-102.4
Los Angeles County	34.1	-118.2 (CO	Pueblo County	38.2	-104.6
Madera County	37.0	-120.0	CO	Rio Blanco County	40.0	-108.3
Marin County	38.0	-122.6	CO	Rio Grande County	37.6	-106.3
Mariposa County	37.6	-120.0	00	Routt County	40.5	-106.9
Mendocino County	39.4	-123.4 [0	00	Saguache County	38.1	-106.2
Medee County	37.2	-120.7		San Juan County	37.0	-107.7
Mono County	37.9	-110.0 0	00	Sedawick County	10.0	-100.4
Monterey County	36.5	-121.5	co	Summit County	39.6	-106.1
Napa County	38.4	-122.3	čõ	Teller County	38.9	-105.2
Nevada County	39.3	-120.8 0	CO	Washington County	40.1	-103.1
Orange County	33.7	-117.9 (CO	Weld County	40.3	-104.7
Placer County	39.0	-120.9	CO	Yuma County	40.0	-102.5
Plumas County	40.0	-120.9	CT	Fairfield County	41.2	-73.4
Riverside County	33.8	-116.8		Hartford County	41.8	-72.7
Sacramento County	38.6	-121.4 [0		Litchfield County	41.8	-/3.2
San Bernardino County	30.7	-121.3 [0	CT	New Haven County	41.4	-72.0
San Diego County	32.9	-117.1	CT	New London County	41.4	_72.0
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Santa Clara County	37.3	-121.9	DC	District of Columbia	38.9	-77.0
Santa Cruz County	37.0	-122.0	FL	Alachua County	29.7	-82.4
Shasta County	40.7	-122.1		Baker County	30.3	-82.2
Siskiyou County	39.0 /1.6	-120.5	FL	Bradford County	20.2	-00.0
Solano County	38.2	-122.0	FI	Brevard County	28.2	-80.7
Sonoma County	38.4	-122.8	FL	Broward County	26.1	-80.2
Stanislaus County	37.6	-121.0	FL	Calhoun County	30.4	-85.2
Sutter County	39.1	-121.7 F	FL	Charlotte County	27.0	-82.1
Tehama County	40.1	-122.1	FL	Citrus County	28.9	-82.5
Trinity County	40.7	-123.1	FL	Clay County	30.0	-81.8
Julare County	36.2	-119.2	FL	Collier County	26.2	-81.7
Venture County	38.0	-120.2		Columbia County	30.2	-82.6
Vela County	34.3	101.0		Divis County	21.2	-01.9
Yuba County	39.2	-121.0	FI	Duval County	30.3	-81.6
Adams County	39.9	-104.9	FI	Escambia County	30.5	-87.3
Alamosa County	37.5	-105.8	FL	Flagler County	29.5	-81.2
Arapahoe County	39.6	-104.8 H	FL	Franklin County	29.8	-84.8
Archuleta County	37.2	-107.1 F	FL	Gadsden County	30.6	-84.6
Baca County	37.3	-102.5 I	FL	Gilchrist County	29.7	-82.8
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Boulder County	40.1	-105.2		Gulf County	29.9	-85.3
Chovenne County	38.7	-100.1		Hamilton County	30.5	-82.9
Clear Creek County	30.0	-102.0	FI	Hendry County	21.0 26.7	-01.8 _R1 0
Coneios County	37.2	-106 1	FI	Hernando County	28.5	-82.5
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Crowley County	38.2	-103.8	FL	Hillsborough County	28.0	-82.4
Custer County	38.1	-105.4	FL	Holmes County	30.9	-85.8
Delta County	38.8	-107.9 F	FL	Indian River County	27.7	-80.5
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Dolores County	37.8	-108.6	FL	Jetterson County	30.5	-83.9
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GA	Bacon County	31.6	-82.5	GA	Lumpkin County	34.5	-84.0
<u>GA</u>	Baker County	31.3	-84.4	GA	McDuffie County	33.5	-82.5
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A A	Barrow County	34.0	-83.7	GA	Madison County	34.1	-83.2
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Ac	Bibb County	32.8	-83.7	GA	Mitchell County	31.2	-84.2
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A	Chatham County	32.0	-81.1	GA	Polk County Pulaski County	34.0	-85.2
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Hawali County	19.7	-155.4		Jersey County	39.1	-90.3
Honolulu County	21.4	-158.0		Jo Daviess County	42.4	-90.2
Kalawao County	21.2	-157.0	IL	Johnson County	37.5	-88.9
Kauai County	22.0	-159.5	IL	Kane County	41.9	-88.3
Maui County	20.9	-156.6	IL	Kankakee County	41.1	-87.8
Ada County	43.6	-116.3	111	Kendall County	41.6	-88.4
Adams County	11.9	-116.0	ii ii	Knox County	10.9	-00.3
Ronnook County	40.0	110.4		Lake County	40.0	-30.0
Barriock County	42.0	-112.3		Lake County	42.0	-00.0
Bear Lake County	42.3	-111.4		La Salle County	41.3	-88.9
Benewah County	47.2	-116.6	IL	Lawrence County	38.7	-87.7
Bingham County	43.2	-112.4	IL	Lee County	41.8	-89.4
Blaine County	43.4	-114.2	IL	Livingston County	40.9	-88.6
Boise County	44.0	-115.9	IL	Logan County	40.1	-89.4
Bonner County	48.3	-116.7	ii.	McDonough County	40.5	-90.7
Bonnovillo County	13.5	_111.0	11	McHoppy County	40.0	- 88 /
Donnevine County	40.0	-110.4		Mal een County	42.0	-00.4
Boundary County	40.0	-110.4		NicLean County	40.5	-00.9
Butte County	43.7	-113.2	IL	Macon County	39.9	-89.0
Camas County	43.4	-114.8	IL	Macoupin County	39.2	-89.9
Canyon County	43.6	-116.7	IL	Madison County	38.8	-90.0
Caribou County	42.7	-111.7	IL	Marion County	38.6	-89.0
Cassia County	42.4	-113.6	l ii	Marshall County	41.0	-89.3
Clark County	44.9	112.2	11	Macon County	40.3	- 80.0
Classification County	44.2	-112.0		Massas County	40.0	-09.9
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Custer County	44.2	-114.1		Ivienard County	40.0	-89.8
Elmore County	43.1	-115.5	IL	Mercer County	41.2	-90.7
Franklin County	42.2	-111.9	IL	Monroe County	38.3	-90.2
Fremont County	44.2	-111.5	IL	Montgomery County	39.2	-89.5
Gem County	44.0	-116.5	IL	Morgan County	39.7	-90.2
Gooding County	42.9	-114.8	l ii	Moultrie County	39.6	-88.6
Idaba County	45.0	115.0	11	Ogla County	42.0	- 20.3
leffereen County	40.0	-110.5		Deerie County	42.0	-09.0
Jenerson County	43.8	-112.1		Peoria County	40.8	-89.7
Jerome County	42.7	-114.3	IL	Perry County	38.1	-89.3
Kootenai County	47.7	-116.8	IL	Piatt County	40.0	-88.6
Latah County	46.8	-116.8	IL	Pike County	39.6	-90.9
Lemhi County	44.9	-113.8	IL	Pope County	37.4	-88.6
Lewis County	46.2	-116.4	111	Pulaski County	37.2	-89.1
Lincoln County	43.0	-114.2	l ii	Putnam County	41.2	-89.3
Madican County	40.0	111.2		Pandalph County	201	-00.0
Misidala	43.0	-111.7		Randolph County	30.1	-09.0
IVIIIIdoka County	42.7	-113.7		Richland County	38.7	-88.1
Nez Perce County	46.4	-116.9	IL	Rock Island County	41.5	-90.5
Oneida County	42.2	-112.4	IL	St. Clair County	38.5	-90.0
Owyhee County	42.8	-116.2	IL	Saline County	37.8	-88.5
Pavette County	44.0	-116.9	IL	Sangamon County	39.8	-89.6
Power County	42.8	-112.8	111	Schuyler County	40.1	-90.6
Shoshono County	42.0	-116.0	11	Scott County	30.6	-00.5
Toton County	40.7	111.0		Shalby County	20.4	- 50.5
Telon County	43.7	-111.1		Shelby County	39.4	-00.0
Iwin Fails County	42.5	-114.6		Stark County	41.1	-89.8
Valley County	44.7	-115.9	IL	Stephenson County	42.3	-89.6
Washington County	44.4	-116.9	IL	Tazewell County	40.6	-89.5
Adams County	40.0	-91.3	IL	Union County	37.5	-89.2
Alexander County	37.1	-89.3		Vermilion County	40.2	-87.7
Bond County	38.9	-89.4	ii.	Wabash County	38.4	-87.8
Boone County	12.3	-88.8	ii ii	Warren County	10.9	-90.6
Brown County	40.0	00.0		Washington County	20.0	-30.0
Burgon County	40.0	-90.7		Wayna Caunty	20.4	-09.4
Bureau County	41.4	-89.5		vvayne County	38.4	-88.4
Calhoun County	39.2	-90.7	IL	White County	38.1	-88.2
Carroll County	42.1	-90.0	IL	Whiteside County	41.8	-89.9
Cass County	40.0	-90.3	IL	Will County	41.5	-88.0
Champaign County	40.1	-88.2	111	Williamson County	37 7	-89.0
Christian County	39.5	-89.3	ii.	Winnebago County	42.3	-89.1
Clark County	30.3	97.9	11	Woodford County	40.8	-80.2
Clark County	00.7	-07.0		Adama County	40.0	-03.2
Clay County	30.7	-00.0		Adams County	40.7	-64.9
Clinton County	38.6	-89.4	IN	Allen County	41.1	-85.1
Coles County	39.5	-88.3	IN	Bartholomew County	39.2	-85.9
Cook County	41.8	-87.8	IN	Benton County	40.6	-87.3
Crawford County	39.0	-87.8	IN	Blackford County	40.5	-85.3
Cumberland County	39.3	-88.3	IN	Boone County	40.0	-86.5
DeKalb County	41.9	-88.7	LIN	Brown County	39.2	-86.2
De Witt County	10.0	_22 0	IN	Carroll County	10.6	_96.6
De Will County	40.2	-00.9		Canoli County	40.0	-00.0
Douglas County	39.8	-68.2	IN	Cass County	40.7	-86.3
DuPage County	41.9	-88.1	IN	Clark County	38.4	-85.7
Edgar County	39.7	-87.7	IN	Clay County	39.4	-87.1
Edwards County	38.4	-88.0	IN	Clinton County	40.3	-86.5
Effingham County	39.1	-88.6	IN	Crawford County	38.3	-86.4
Favette County	39.0	-89.0	IN	Daviess County	38.7	-87.1
Ford County	40.6	-88.2	LIN	Dearborn County	30.1	_8/ 0
Franklin County	40.0	-00.2		Dearborn County	20.2	-04.9
Franklin County	30.0	-69.0		Decatur County	39.3	-00.5
Fuiton County	40.5	-90.2	I IIN	Dekaid County	41.4	-85.0

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N	LaPorte County	41.6	-86.8	IA	Henry County	41.0	-91.5
N	Lawrence County	38.8	-86.5	IA	Howard County	43.4	-92.3
N	Marion County	39.8	-86.1	IA	Ida County	42.4	-95.5
N	Marshall County	41.3	-86.3	IA	Iowa County	41.7	-92.1
N	Martin County	38.7	-86.8	IA	Jackson County	42.2	-90.6
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A A	Adair County Adams County	41.3 41.0	-94.5		Warren County Washington County	41.4 41.3	-93.6
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A A	Auaubon County Benton County	41.7 42.1	-94.9	IA IA	Winnebago County Winneshiek County	43.4 43.3	-93.7 -91 8
A	Black Hawk County	42.5	-92.3	IA	Woodbury County	42.4	-96.2
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Elk County	37.4	-96.2	KY	Boyd County	38.4	-82.7
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Gove County	39.0	-100.5	ΙκΥ	Caldwell County	37.2	-87.9
Graham County	39.3	-99.9	KY	Calloway County	36.6	-88.3
Grant County	37.6	-101.3	KY	Campbell County	39.0	-84.4
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Greenwood County	37.9	-96.2	KY KV	Carter County	38.3	-83.0
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Haskell County	37.5	-100.9	IKY	Clay County	37.2	-83.7
Hodgeman County	38.1	-99.9	KY	Clinton County	36.7	-85.1
Jackson County	39.4	-95.8	KY	Crittenden County	37.3	-88.1
Jefferson County	39.2	-95.4	KY	Cumberland County	36.8	-85.4
Jewell County	39.8	-98.2	KY	Daviess County	37.8	-87.1
Jonnson County	38.9	-94.8	KY KY	Edmonson County	37.2	-86.2
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Leavenworth County	39.2	-95.0	KY	Franklin County	38.2	-84.9
Lincoln County	39.0	-98.2	KY	Fulton County	36.5	-89.1
Linn County	38.2	-94.8	KY KY	Gallatin County	38.7	-84.9
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Marion County	38.3	-97.1	KY	Gravson County	37.5	-86.3
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Osage County	38.6	-95.7	KY	Jackson County	37.4	-84.0
Osborne County	39.4	-98.8	KY KY	Jefferson County	38.2	-85.7
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Pottawatomie County	39.3	-96.3	IKY	Knott County	37.3	-83.0
Pratt County	37.6	-98.7	KY	Knox County	36.9	-83.9
Rawlins County	39.8	-101.1	KY	Larue County	37.5	-85.7
Reno County	38.0	-98.0	KY	Laurel County	37.1	-84.1
Republic County	39.8	-97.6	KY	Lawrence County	38.1	-82.7
Rice County Bilow County	38.3	-98.2	KY KY	Lee County	37.6	-83.7
Books County	39.4	-90.7	KY	Leslie County	37.1	-03.4 -82 R
Rush County	38.5	-99.3	KY	Lewis County	38.5	-83.3
Russell County	38.9	-98.8	KÝ	Lincoln County	37.5	-84.7
Saline County	38.8	-97.6	KY	Livingston County	37.2	-88.3
Scott County	38.5	-100.9	IKY	Logan County	36.9	-86.9
Sedgwick County	37.7	-97.4	KY	Lyon County	37.0	-88.1
Seward County	37.1	-100.9	KY KY	Nicoracken County	37.1	-88.7
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Sherman County	39.3	-101.7	KY	Madison County	37.7	-84.3
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Stafford County	38.0	-98.7	KY	Marion County	37.6	-85.3
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(Y	Metcalfe County	37.0	-85.6		Terrebonne Parish	29.5	-90.7
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<y X</y 	Montgomery County	38.0	-83.9	LA	Vermilion Parish	30.0	-92.2
	Muhlenberg County	37.9	-83.3		Washington Parish	31.1	-93.2
Ϋ́Υ	Nelson County	37.8	-85.5	LA	Webster Parish	32.7	-93.3
۲Y	Nicholas County	38.3	-84.0	LA	West Baton Rouge Parish	30.5	-91.3
<y X</y 	Ohio County	37.5	-86.9	LA	West Carroll Parish	32.8	-91.4
	Owen County	38.4	-85.4 -84.8		West Feliciana Parish	30.9	-91.4
άΫ́	Owsley County	37.4	-83.7	MÈ	Androscoggin County	44.1	-70.2
(Y	Pendleton County	38.7	-84.4	ME	Aroostook County	46.6	-68.3
	Perry County	37.2	-83.2	ME	Cumberland County	43.8	-70.3
(Y	Powell County	37.4	-83.9	MF	Hancock County	44.9	-70.4
άΫ́	Pulaski County	37.1	-84.6	ME	Kennebec County	44.4	-69.8
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(Y	Russell County	37.0	-85.1	ME	Penobscot County	45.2	-68.7
۲Y	Scott County	38.2	-84.6	ME	Piscataquis County	45.6	-69.3
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	Simpson County	36.7	-86.6	ME	Waldo County	45.1 44.5	-69.9
άΫ́	Taylor County	37.4	-85.3	ME	Washington County	44.9	-67.6
(Y	Todd County	36.8	-87.2	ME	York County	43.4	-70.7
(Y	Trigg County	36.8	-87.9	MD	Allegany County	39.6	-78.8
(Y	Union County	37.6	-87.9		Baltimore County	39.1	-76.6
άΫ́	Warren County	37.0	-86.4	MD	Calvert County	38.5	-76.5
(Y	Washington County	37.7	-85.2	MD	Caroline County	38.9	-75.8
	Wayne County	36.8	-84.8		Carroll County	39.6	-77.0
(Y	Whitley County	36.8	-84.1	MD	Charles County	38.5	-77.0
άΥ	Wolfe County	37.7	-83.5	MD	Dorchester County	38.5	-76.0
<y Y</y 	Woodford County	38.1	-84.7	MD	Frederick County	39.5	-77.4
_A 	Acadia Parish	30.3	-92.4		Harford County	39.5	-79.3
Â	Ascension Parish	30.2	-90.9	MD	Howard County	39.2	-76.9
A	Assumption Parish	29.9	-91.1	MD	Kent County	39.3	-76.1
_A	Avoyelles Parish	31.1	-92.1	MD	Montgomery County	39.1	-77.1
A	Bienville Parish	30.7	-93.3		Queen Anne's County	38.9	-76.9
A	Bossier Parish	32.6	-93.7	MD	St. Mary's County	38.3	-76.6
A	Caddo Parish	32.5	-93.8	MD	Somerset County	38.1	-75.8
_A	Calcasieu Parish	30.2	-93.3	IMD	Ialbot County	38.8	-76.1
A	Cameron Parish	29.9	-92.1	MD	Wicomico County	38.4	-77.6
A	Catahoula Parish	31.7	-91.9	MD	Worcester County	38.3	-75.3
A	Claiborne Parish	32.8	-93.0	MD	Baltimore city	39.3	-76.6
_A 	De Soto Parish	31.0	-91.5		Barnstable County	41.7	-70.3
Â	East Baton Rouge Parish	30.5	-91.1	MA	Bristol County	41.8	-71.1
A	East Carroll Parish	32.8	-91.2	MA	Dukes County	41.4	-70.6
_A	East Feliciana Parish	30.8	-91.1	MA	Essex County	42.6	-71.0
_A	Franklin Parish	32.1	-92.4	MA	Hampden County	42.0	-72.0
A	Grant Parish	31.6	-92.6	MA	Hampshire County	42.3	-72.6
_A	Iberia Parish	30.0	-91.8	MA	Middlesex County	42.5	-71.3
_A 	Iberville Parish	30.3	-91.3		Nantucket County	41.3	-70.1
Â	Jefferson Parish	29.9	-90.2	MA	Plymouth County	42.0	-70.8
A	Jefferson Davis Parish	30.2	-92.8	MA	Suffolk County	42.3	-71.1
_A	Lafayette Parish	30.2	-92.0	MA	Worcester County	42.3	-71.8
_A	La Salle Parish	29.0	-90.0	MI	Alger County	44.7	-86.6
A	Lincoln Parish	32.6	-92.7	MI	Allegan County	42.6	-85.9
A	Livingston Parish	30.5	-90.8	MI	Alpena County	45.0	-83.5
_A	Madison Parish	32.4	-91.2		Antrim County	45.0	-85.2
A	Natchitoches Parish	31.7	-93.1	MI	Baraga County	46.7	-88.4
A	Orleans Parish	30.0	-90.1	MI	Barry County	42.6	-85.3
A	Ouachita Parish	32.5	-92.1	MI	Bay County	43.6	-83.9
_A 	Plaquemines Parish	29.6	-89.8		Berrien County	44.6	-86.0
A	Rapides Parish	31.3	-92.5	MI	Branch County	41.9	-85.1
A	Red River Parish	32.1	-93.3	MI	Calhoun County	42.3	-85.1
A	Richland Parish	32.4	-91.7	MI	Cass County	41.9	-86.0
A	St. Bernard Parish	29.9	-93.0 -89.9	MI	Cheboygan County	45.5	-84.5
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A	St. Helena Parish	30.8	-90.7	MI	Clare County	44.0	-84.9
Δ	St. James Parish St. John the Bantist Parish	30.0	-90.8 _90.5	MI	Crawford County	42.9 44 7	-84.6
A	St. Landry Parish	30.5	-92.1	MI	Delta County	45.9	-86.9
A	St. Martin Parish	30.2	-91.8	MI	Dickinson County	45.9	-88.0
A	St. Mary Parish	29.7	-91.4	IMI	Eaton County	42.6	-84.8

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M	Houghton County	41.9	-88.6	MN	Lake County	43.0	-90.2
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	Cader Caunty	40.0	07.0	NIV/	Mineral County	00.5	110.5
	Cedar County	42.0	-91.2	INV	wineral County	30.3	-110.0
NE	Chase County	40.5	-101.7	INV	Nye County	37.9	-116.6
NE	Cherry County	42 7	-101 1	NV	Pershing County	40.4	-118.3
	Chausenes County	41.0	100.0	NIV/	Charrent Country	40.4	110.0
INE	Cheyenne County	41.2	-103.0	INV	Storey County	39.4	-119.0
NE	Clay County	40.5	-98.0	INV	Washoe County	39.7	-119.8
NE	Colfax County	41.6	-97 1	NV	White Pine County	39.3	-114 9
	Oundat Obdanty	41.0	00.0	NO.	Ormore Olto	00.0	110.0
INE	Curning County	41.9	-90.0	INV	Carson City	39.2	-119.8
NË	Custer County	41.4	-99.6	INH	Belknap County	43.5	-71.4
NE	Dakota County	12 1	-96.5	NH	Carroll County	13.8	-71.2
NIE	Dowoo County	40.7	100.0	I NILL	Chapping County	40.0	70.0
	Dawes County	42.1	-103.2		Criesnie Courity	42.9	-12.2
NE	Dawson County	40.8	-99.9	INH	Coos County	44.6	-71.3
NE	Deuel County	41 1	-102.3	NH	Grafton County	43.9	-71.9
	Divon County	40 5	102.0	NIL	Lilloborgunch County	40.0	71.0
	DIADIT COUNTRY	42.0	-90.0		millisporougn County	42.9	-/ 1.0
NE	Dodge County	41.5	-96.6	INH	Merrimack County	43.3	-71.6
NF	Douglas County	41.3	-96 1	NH	Bockingham County	43.0	-71 1
	Dundu County	40.1	101.0		Chafferry Occurry	40.0	
INE	Dunay County	40.1	-101.6	INH	Strafford County	43.3	-/1.0
NE	Fillmore County	40.5	-97.6	INH	Sullivan County	43.3	-72.2
NE	Franklin County	10.2	_0.2.0	NI	Atlantic County	30 /	_71 @
	Frankin Oburity	10.2	-30.3		Additio County	40.0	-14.0
NE	Frontier County	40.5	-100.4	INJ	Bergen County	40.9	-74.1
NE	Furnas County	40.2	-99.9	INJ	Burlington County	40.0	-74.8
	Gage County	10.2	_06.7	N I	Camden County	30.0	_75.0
	Cage County	40.2	-90.7		Canada County	03.3	-75.0
NE	Garden County	41.5	-102.3	INJ	Cape May County	39.1	-74.8
NE	Garfield County	41.8	-99 0	N.I	Cumberland County	39.4	-75 1
	Cooper Courty	40.0	00.0		Encov County	40.0	74.0
INE	Gosper County	40.6	-99.8	INJ	Essex County	40.8	-74.2
NE	Grant County	41.9	-101.7	NJ	Gloucester County	39.8	-75.1
	Greeley County	116	_02 F	N I	Hudson County	10.7	_7/ 1
		41.0	-90.0		Huuson County	40.7	-14.1
NE	Hall County	40.9	-98.4	INJ	Hunterdon County	40.6	-74.9
NF	Hamilton County	40.9	-98 0	N.I	Mercer County	40.3	-74 7
	Harlan County	40.0	00.4		Middleosy County	40.5	74.1
	manan County	40.2	-99.4	INJ	ivilualesex County	40.5	-14.4
NE	Hayes County	40.5	-101.1	NJ	Monmouth County	40.3	-74.1
NF	Hitchcock County	40.2	-101 0	N.I	Morris County	40.9	-74 5
	Light Country	40.2	- 101.0	NU V	Ocean County	-0.3	74.0
NE	Holt County	42.5	-98.7	INJ	Ocean County	39.9	-74.2
NE	Hooker County	42.0	-101.1	INJ	Passaic County	40.9	-74.2
	Howard County	11.0	_02 F	N I	Salem County	30.6	_75 4
	Laffanana On	41.2	-90.0		Salem Country	09.0	-10.4
NE	Jefferson County	40.2	-97.1	INJ	Somerset County	40.6	-74.6
NE	Johnson County	40.4	-96.3	N.I	Sussex County	41 1	-74 7
	Koorpov Courty	40 5	00.0	NU	Union County	40.7	74.0
	Country County	40.0	-99.0	UNU	Onion County	40.7	-14.3

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NM	Chaves County	33.4	-104.4	NY	Westchester County	41.1	-73.8
NM	Cibola County	35.0	-108.0	NY	Wyoming County	42.7	-78.2
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NM	De Baca County	34.4	-10/ 2	NC	Alexander County	35.9	-81.2
NIM	Dena Ana County	20.2	106.0	NC	Allegherry County	33.5 26 E	01.2
INIVI	Dona Ana County	32.3	-100.0	NC	Alleghany County	30.5	-01.1
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NM	Harding County	35.9	-103.9	NC	Beaufort County	35.5	-76.9
NM	Hidalgo County	32.0	-108.7	NC	Bertie County	36.1	-77.0
NM	Lea County	32.7	-103.3	NC	Bladen County	34.6	-78.6
NM	Lincoln County	33.6	-105.5	NC	Brunswick County	34.0	-78.2
NM	Los Alamos County	35.9	-106.3	NC	Buncombe County	35.6	-82.5
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NM	Roosevelt County	34.1	-103.4	NC	Catawba County	35.7	-81.2
NM	Sandoval County	35.5	-106.8	NC	Chatham County	35.7	-79.3
NM	San Juan County	36.6	-108.3	NC	Cherokee County	35.1	-84.0
NM	San Miguel County	35.5	-105.1	NC	Chowan County	36.1	-76.6
NM	Santa Fe County	35.6	-106.0	NC	Clay County	35.0	-83.8
NM	Sierra County	33.1	-107.3	NC	Cleveland County	35.3	-81.5
NM	Socorro County	34.2	-107.0	NC	Columbus County	34.3	-78.7
NM	Taos County	36.5	-105.6	NC	Craven County	35.1	-77 1
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NY	Albany County	42.7	-73.8	NC	Davidson County	35.8	-80.2
NY	Allegany County	42.2	-78.0	NC	Davie County	35.9	-80.5
NY	Bronx County	40.8	-73.9	NC	Duplin County	34.9	-78.0
NY	Broome County	42.1	-75.9	NC	Durham County	36.0	-78.9
NY	Cattaraugus County	42.2	-78.6	NC	Edgecombe County	35.9	-77.6
NY	Cayuga County	42.9	-76.6	NC	Forsyth County	36.1	-80.2
NY	Chautauqua County	42.2	-79.3	NC	Franklin County	36.1	-78.3
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IN T NIX	Chenango County	42.0	-75.0	NC	Gales County	30.4	-70.7
	Clinton County	44.7	-/3.0	NC	Granam County	35.4	-03.0
INY	Columbia County	42.3	-/3./	NC	Granville County	36.3	-/8./
NY	Cortland County	42.6	-76.1	NC	Greene County	35.5	-77.7
NY	Delaware County	42.2	-75.0	NC	Guilford County	36.1	-79.8
NY	Dutchess County	41.7	-73.8	NC	Halifax County	36.3	-77.7
NY	Erie County	42.9	-78.8	NC	Harnett County	35.4	-78.8
NY	Essex County	44.2	-73.7	NC	Havwood County	35.5	-83.0
NY	Franklin County	44.6	-74.3	NC	Henderson County	35.3	-82.5
NY	Fulton County	43.1	-74.4	NC	Hertford County	36.3	-77.0
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NY	Lewis County	43.8	-/5.5	NC	Lee County	35.5	-79.2
NY	Livingston County	42.7	-77.8	NC	Lenoir County	35.3	-77.6
NY	Madison County	42.9	-75.7	NC	Lincoln County	35.5	-81.2
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NY	Oneida County	43.2	-75.4	NC	Mitchell County	36.0	-82.1
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IN T NIX	Oneans County	40.0	-10.2	NC	New Harlover County	34.2	-11.9
IN Y	Oswego County	43.4	-/0.2	NC	Northampton County	30.4	-11.5
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NY	Rensselaer County	42.7	-73.6	NC	Pasquotank County	36.3	-76.2
NY	Richmond County	40.6	-74.1	NC	Pender County	34.5	-77.9
NY	Rockland County	41.1	-74.0	NC	Perquimans County	36.2	-76.5
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NY	Saratoga County	43.0	-73.8	NC	Pitt County	35.6	-77.4
NÝ	Schenectady County	42.8	-74 0	NČ	Polk County	35.3	-82.2
NY	Schoharie County	42.6	-74 4	NC	Bandolph County	35.7	-79.8
NY	Schuvler County	42.4	-76 9	NC	Richmond County	35.0	-79.7
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ND	Barnes County	46.9	-102.0	ОН	Huron County	40.0	-82.6
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ND	Eddy County	47.7	-99.0	OH	Marion County	40.6	-83.1
ND	Foster County	40.3	-100.2	ОН	Meigs County	39.1	-82.0
ND	Golden Valley County	46.9	-103.9	ŎН	Mercer County	40.5	-84.6
ND	Grand Forks County	47.9	-97.3	OH	Miami County	40.1	-84.2
	Grant County	46.4	-101.7		Monroe County	39.7	-81.1
ND	Hettinger County	46.4	-102.5	ОН	Morgan County	39.6	-81.8
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ND	LaMoure County	46.4	-98.5	OH	Muskingum County	40.0	-82.0
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	McLean County	47.6	-101.2	OH	Pickaway County Pika County	39.6	-83.0
ND	Morton County	46.8	-101.3	ОН	Portage County	41.2	-81.3
ND	Mountrail County	48.2	-102.3	OH	Preble County	39.7	-84.6
ND	Nelson County	47.9	-98.2	OH	Putnam County	41.0	-84.1
	Pembina County	47.1	-101.4	ОН	Richland County	40.8	-82.5
ND	Pierce County	48.2	-100.0	ОН	Sandusky County	41.4	-83.1
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	Sheridan County	47.6	-100.3	ОН	Iuscarawas County	40.5	-81.5
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ND	Traill County	47.5	-97.2	ОH	Williams County	41.5	-84.6
ND	Walsh County	48.4	-97.7	OH	Wood County	41.4	-83.6
	Wells County	48.3	-101.5	OK	Adair County	40.9	-83.3
ND	Williams County	48.3	-103.5	OK	Alfalfa County	36.7	-98.3
ОН	Adams County	38.8	-83.5	OK	Atoka County	34.4	-96.1
OH	Allen County	40.8	-84.1	OK	Beaver County	36.7	-100.5
OH	Ashtabula County	40.8	-80.8	OK	Blaine County	35.9	-99.0
ŎН	Athens County	39.4	-82.1	ÖK	Bryan County	34.0	-96.3
OH	Auglaize County	40.5	-84.3	OK	Caddo County	35.1	-98.3
OH	Belmont County Brown County	40.0	-80.9	OK	Canadian County	35.5	-97.9
ОН	Butler County	39.4	-84.5	OK	Cherokee County	35.9	-95.0
ОН	Carroll County	40.6	-81.1	OK	Choctaw County	34.0	-95.5
OH	Champaign County	40.1	-83.8	OK	Cimarron County	36.8	-102.4
OH	Clermont County	39.9	-03.0	OK	Coal County	33.∠ 34.6	-97.4
ŎН	Clinton County	39.4	-83.8	ŎК	Comanche County	34.6	-98.4
OH	Columbiana County	40.8	-80.7	OK	Cotton County	34.3	-98.4
OH OH	Coshocton County	40.3	-81.9	OK	Craig County Creek County	36.7	-95.2
ŎН	Cuyahoga County	41.5	-81.7	OK	Custer County	35.6	-98.9
ОН	Darke County	40.1	-84.6	OK	Delaware County	36.5	-94.8
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Harmon County	34.7	-99.9	PA	Berks County	40.4	-75.9
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Hughes County	30.2 35.1	-95.1		Bradiord County Bucks County	41.0	-76.0
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Jefferson County	34.1	-97.9	PA	Cambria County	40.4	-78.8
Johnston County	34.3	-96.7	PA	Cameron County	41.4	-78.2
Kay County	36.8	-97.2	PA	Carbon County	40.9	-75.7
Kingtisher County	35.9	-97.9	PA	Centre County	40.9	-77.8
Kiowa County	34.9	-99.0	PA DA	Clarion County	40.0	-/5./
Le Flore County	35.0	-94.7	PA	Clearfield County	41.2	-78.5
Lincoln County	35.7	-96.9	PA	Clinton County	41.2	-77.5
Logan County	35.9	-97.4	PA	Columbia County	41.0	-76.4
Love County	33.9	-97.2	PA	Crawford County	41.7	-80.1
McClain County	35.0	-97.5	PA	Cumberland County	40.2	-77.1
Melatosh County	34.1	-94.6		Dauphin County	40.3	-76.0
Major County	36.3	-98.4	PA	Elk County	41.4	-78.7
Marshall County	34.0	-96.7	PA	Erie County	42.1	-80.1
Mayes County	36.3	-95.2	PA	Fayette County	40.0	-79.7
Murray County	34.5	-97.0	PA	Forest County	41.5	-79.3
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Novieta County	36.8	-97.2		Greene County	39.9	-70.1
Okfuskee County	35.4	-96.3	PA	Huntingdon County	40.4	-78.0
Oklahoma County	35.5	-97.5	PA	Indiana County	40.6	-79.1
Okmulgee County	35.6	-96.0	PA	Jefferson County	41.1	-79.0
Osage County	36.6	-96.4	PA	Juniata County	40.6	-77.3
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Pottawatomie County	35.3	-96.9	PA	Luzerne County	41.2	-75.9
Pushmataha County	34.4	-95.4	PA	Lycoming County	41.3	-77.0
Roger Mills County	35.7	-99.7	PA	McKean County	41.8	-/8.6
Seminole County	30.3	-95.0		Mifflin County	41.3	-00.3
Sequovah County	35.5	-94.8	PA	Monroe County	41.1	-75.3
Stephens County	34.5	-97.9	PA	Montgomery County	40.2	-75.3
Texas County	36.7	-101.5	PA	Montour County	41.0	-76.6
Tillman County	34.4	-98.9	PA	Northampton County	40.7	-75.3
Tulsa County	36.1	-95.9	PA	Northumberland County	40.9	-/6./
Washington County	36.0	-95.5		Philadelphia County	40.4	-75.1
Washita County	35.3	-99.0	PA	Pike County	41.3	-75.0
Woods County	36.7	-98.8	PA	Potter County	41.8	-77.9
Woodward County	36.4	-99.3	PA	Schuylkill County	40.7	-76.2
Baker County	44.7	-117.8	PA	Snyder County	40.8	-77.0
Clackamas County	44.0	-123.3		Sullivan County	40.0	-79.0
Clatsop County	46.0	-123.8	PA	Susquehanna County	41.8	-75.8
Columbia County	45.9	-123.0	PA	Tioga County	41.8	-77.2
Coos County	43.2	-124.1	PA	Union County	41.0	-77.0
Crook County	44.2	-120.5	PA	Venango County	41.4	-79.8
Curry County	42.4	-124.3	PA	Warren County	41.8	-/9.3
Douglas County	44.0	-121.3		Wayne County	40.2	-75.3
Gilliam County	45.3	-120.2	PA	Westmoreland County	40.3	-79.6
Grant County	44.5	-118.9	PA	Wyoming County	41.5	-76.0
Harney County	43.5	-119.0	PA	York County	39.9	-76.7
Hood River County	45.6	-121.6	RI	Bristol County	41.7	-71.3
Jackson County	42.4	-122.8	RI	Newport County	41.7	-/1.5
Josephine County	42.0	-123.4	RI	Providence County	41.9	-71.5
Klamath County	42.7	-121.7	RI	Washington County	41.5	-71.6
Lake County	42.7	-120.6	SC	Abbeville County	34.2	-82.5
Lane County	44.0	-123.1	SC	Aiken County	33.6	-81.7
Lincoln County	44.7	-123.9	SC	Allendale County	33.0	-81.3
Malbeur County	44.5	-122.7	SC	Bambera County	34.5	-02.0
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Morrow County	45.4	-119.6	SC	Beaufort County	32.4	-80.7
Multnomah County	45.5	-122.6	SC	Berkeley County	33.1	-80.0
Polk County	44.9	-123.4	SC	Calhoun County	33.7	-80.8
Snerman County	45.5	-120.7	50	Charleston County	32.8	-80.0
Umatilla County	40.0 45.6	-123.8 -118.8	SC	Chester County	34.7	-01.0
Union County	45.3	-118.0	SC	Chesterfield County	34.7	-80.2
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Newberry County	34.3	-81.6	TN	Clay County	36.6	-85.5
Oconee County	34.7	-83.0	TN	Cocke County	35.9	-83.1
Pickens County	33.5	-82.7	TN	Crockett County	35.8	-80.1
Richland County	34.0	-81.0	TN	Cumberland County	35.9	-85.0
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Lawrence County	44.4	-103.8	TN	Moore County	35.3	-86.4
Lincoln County	43.3	-96.7	TN	Morgan County	36.1	-84.6
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	Brooks County	27.1	-98.2		Howard County	32.2	-101.4
TX	Burleson County	30.4	-96.6	ΤÂ	Hunt County	33.1	-96.1
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TX	Castro County	34.5	-102.3	ΤÂ	Jim Wells County	27.7	-98.1
ТХ	Chambers County	29.8	-94.7	ΤX	Johnson County	32.4	-97.3
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TX	Clay County	34.5 33.8	-100.2	ΗÂ	Kaufman County	20.9	-97.9
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ТХ	Colorado County	29.6	-96.5	ΤX	King County	33.6	-100.3
	Comal County	29.8	-98.2		Kinney County	29.3	-100.4
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	Culberson County	31.3	-104.6		Liberty County	31.3	-96.1
TX	Dallas County	32.8	-96.8	ΤÂ	Limestone County	31.6	-94.6
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TX	Denton County	33.4	-95.7 -97.1	ΗÂ	Liano County	30.7	-98.6
TX	DeWitt County	29.1	-97.3	TX	Lubbock County	33.6	-101.9
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	Dimmit County	28.5	-99.8		McLennan County	31.2	-99.3
TX	Duval County	27.7	-98.5	ΤX	McMullen County	28.4	-98.5
TX	Eastland County	32.3	-98.8	TX	Madison County	31.0	-96.0
	Ector County	31.9	-102.4		Marion County	32.8	-94.4
tx	Ellis County	32.4	-96.8	ltî	Mason County	30.8	-99.2
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TX	Fisher County	32.8	-100.4	TX	Milam County	30.8	-97.0
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TX	Sherman County	36.3	-101.9	VA	Amelia County	37.8	-80.0
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TX	Stephens County	32.7	-98.9	VA	Augusta County	38.1	-79.1
TX	Stonewall County	33.2	-100.2	VA	Bedford County	37.3	-79.7
TX	Sutton County	30.5	-100.6	VA	Bland County	37.1	-81.1
TX	Tarrant County	34.5	-101.7	VA	Brunswick County	36.8	-79.8
TX	Taylor County	32.4	-99.8	VA	Buchanan County	37.3	-82.0
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TX	Van Zandt County Victoria County	28.8	-95.8 -97.0	VA VA	Essex County	37.1	-77.6
TX	Walker County	30.7	-95.5	VA	Fairfax County	38.8	-77.2
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TX	Washington County	30.2	-96.4	VA	Fluvanna County	37.9	-78.3
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TX	Wheeler County	35.4	-100.3	VA	Giles County	37.3	-80.7
TX	Wichita County Wilbarger County	33.9 34.1	-98.6 -99.2	VA VA	Goochland County	37.4 37.7	-76.5
TX	Willacy County	26.5	-97.8	VA	Grayson County	36.6	-81.2
TX	Williamson County Wilson County	30.6	-97.7	VA VA	Greene County Greensville County	38.3 36.7	-78.5
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	Northumberland County	37.4	-75.9	WA WA	Kitsap County	47.0	-122.0
VA	Nottoway County	37.1	-78.1	ŴA	Klickitat County	45.9	-121.0
VA	Orange County	38.2	-78.1	WA	Lewis County	46.6	-122.7
VA	Page County	38.6	-78.5	WA	Lincoln County	47.6	-118.4
VA	Patrick County	36.7	-80.3	WA	Mason County	47.3	-123.1
	Pillsylvaria County	30.0	-79.4	WA WA	Pacific County	46.5	-119.0
VA	Prince Edward County	37.2	-78.4	ŴA	Pend Oreille County	48.5	-117.3
VA	Prince George County	37.2	-77.3	WA	Pierce County	47.2	-122.4
VA	Prince William County	38.7	-77.4	WA	San Juan County	48.6	-123.0
VA	Pulaski County	37.1	-80.7	WA	Skagit County	48.5	-122.2
VA	Richmond County	37.9	-76.7	WA	Snohomish County	43.9	-122.0
VA	Roanoke County	37.3	-80.0	WA	Spokane County	47.7	-117.4
VA	Rockbridge County	37.8	-79.4	WA	Stevens County	48.4	-117.8
VA	Rockingham County	38.5	-78.8	WA	Thurston County	47.0	-122.8
	Russell County	36.9	-82.1	WA	Walla Walla County	46.3	-123.5
VA	Shenandoah County	38.9	-78.6	WA	Whatcom County	48.8	-122.4
VA	Smyth County	36.8	-81.6	WA	Whitman County	46.9	-117.4
VA	Southampton County	36.7	-77.1	WA	Yakima County	46.5	-120.5
VA	Spotsylvania County	38.2	-77.6	WV	Barbour County	39.1	-80.0
	Surry County	30.4	-77.4		Boone County	39.5	-76.0
VA	Sussex County	36.9	-77.3	ŴŶ	Braxton County	38.7	-80.7
VA	Tazewell County	37.1	-81.6	WV	Brooke County	40.3	-80.6
VA	Warren County	38.9	-78.2	WV	Cabell County	38.4	-82.3
VA	Washington County	36.7	-82.0	WV	Calhoun County	38.9	-81.1
	Wise County	30.2	-70.8		Doddridge County	30.0	-80.7
VA	Wythe County	36.9	-81.1	ŴŶ	Favette County	38.0	-81.1
VA	York County	37.2	-76.5	WV	Gilmer County	38.9	-80.8
VA	Alexandria city	38.8	-77.1	WV	Grant County	39.1	-79.2
	Bedford City Bristol city	37.3	-79.5		Greenbrier County	37.9	-80.5
VA	Buena Vista city	37.7	-79.4	ŴV	Hancock County	40.5	-80.6
VA	Charlottesville city	38.0	-78.5	ŴV	Hardy County	39.0	-78.9
VA	Chesapeake city	36.8	-76.3	WV	Harrison County	39.3	-80.3
VA	Clifton Forge city	37.8	-79.8	WV	Jackson County	38.8	-81.7
	Colonial Heights city	37.3	-77.4		Jefferson County	39.3	-//.8
VA	Danville city	36.6	-79.4	ŴV	Lewis County	39.0	-80.5
VA	Emporia city	36.7	-77.5	ŴV	Lincoln County	38.2	-82.1
VA	Fairfax city	38.9	-77.3	WV	Logan County	37.8	-82.0
VA	Falls Church city	38.9	-77.2	WV	McDowell County	37.4	-81.6
VA	Fredericksburg city	38.3	-70.9	ŴV	Marshall County	39.5	-80.2
VA	Galax city	36.7	-80.9	ŴV	Mason County	38.8	-82.0
VA	Hampton city	37.0	-76.4	WV	Mercer County	37.3	-81.2
VA	Harrisonburg city	38.4	-78.9	WV	Mineral County	39.4	-78.9
	Hopewell city	37.3	-77.3		Monongalia County	37.7	-82.2
VA	Lynchburg city	37.4	-79.2	ŴŶ	Monroe County	37.6	-80.6
VA	Manassas city	38.8	-77.5	WV	Morgan County	39.6	-78.3
VA	Manassas Park city	38.8	-77.5	WV	Nicholas County	38.3	-80.8
VA	Martinsville city	36.7	-79.9		Ohio County Bondloton County	40.1	-80.7
VA	Norfolk city	36.9	-76.3	Ŵ	Pleasants County	39.4	-79.3
VA	Norton city	36.9	-82.6	ŴV	Pocahontas County	38.3	-80.0
VA	Petersburg city	37.2	-77.4	WV	Preston County	39.5	-79.7
VA	Poquoson city	37.1	-76.4	WV	Putnam County	38.5	-81.9
	Badford city	30.0	-70.3		Bandolph County	38.8	-01.2
VA	Richmond city	37.5	-77.5	ŴŶ	Ritchie County	39.2	-81.1
VA	Roanoke city	37.3	-80.0	WV	Roane County	38.7	-81.4
VA	Salem city	37.3	-80.1	WV	Summers County	37.7	-80.8
VA	Staunton city	38.2	-79.1	WV	Tueker County	39.3	-80.0
VA	Virginia Beach city	36.8	-76.0	Ŵv	Tyler County	39.5	-79.0
VA	Waynesboro city	38.1	-78.9	ŴV	Upshur County	38.9	-80.2
VA	Williamsburg city	37.3	-76.7	WV	Wayne County	38.2	-82.5
VA	Winchester city	39.2	-78.2	WV	Webster County	38.5	-80.4
WA	Auams County Asotin County	47.U 46.3	-118./ -117.1	ŴŴ	Wirt County	39.0	-80.7
WA	Benton County	46.2	-119.4	ŴV	Wood County	39.3	-81.5
WA	Chelan County	47.6	-120.4	ŴV	Wyoming County	37.6	-81.5
WA	Clallam County	48.1	-123.8	WI	Adams Čounty	44.0	-89.8
WA	Clark County	45.7	-122.5	WI	Ashland County	46.3	-90.7
WA	Cowlitz County	40.3	-110.0	Ŵ	Bayfield County	40.4	-91.8
WA	Douglas County	47.7	-119.9	W	Brown County	44.5	-88.0

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VVI	Buffalo County	44.4	-91.8	PR	Adjuntas Municipio	18.2	-66.7
WI	Burnett County	45.9	-92.4	PR	Aguada Municipio	18.4	-67.2
WI	Calumet County	44.1	-88.2	PR	Aguadilla Municipio	18.5	-67.1
WI	Chippewa County	45.0	-91.3	PR	Aquas Buenas Municipio	18.3	-66 1
10/1	Clark County	11.8	-00.6	DD	Aibonito Municipio	19.1	66.3
10/1	Calumbia Caunty	40.5	-30.0			10.1	-00.0
VVI	Columbia County	43.5	-69.3	PR	A±asco Municipio	10.3	-07.1
WI	Crawford County	43.2	-91.0	PR	Arecibo Municipio	18.4	-66.7
WI	Dane County	43.1	-89.4	PR	Arroyo Municipio	18.0	-66.1
WI	Dodge County	43.4	-88.7	PR	Barceloneta Municipio	18.5	-66.6
10/1	Door County	45.0	07.2		Barranguitae Municipio	10.0	66.2
VVI	Door County	45.0	-07.3	PR	Barranquitas iviunicipio	10.2	-00.3
VVI	Douglas County	46.5	-91.9	IPR	Bayamin Municipio	18.4	-66.2
WI	Dunn County	44.9	-91.9	PR	Cabo Roio Municipio	18.1	-67.2
WI	Fau Claire County	44.8	-91 4	PR	Caquas Municipio	18.2	-66.0
10/1	Eloropoo County	45.0	00 /		Camury Municipio	10.2	66.0
	Final de Los Ourity	45.0	-00.4		Carrier Municipio	10.4	-00.9
VVI	Fond du Lac County	43.8	-88.5	PR	Canivanas iviunicipio	18.4	-65.9
WI	Forest County	45.6	-88.8	PR	Carolina Municipio	18.4	-66.0
WI	Grant County	42.9	-90.7	PR	Cata+o Municipio	18.4	-66 1
10/1	Croop County	40.7	00.6		Covov Municipio	101	66.0
	Green County	42.7	-09.0		Cayey Municipio	10.1	-00.2
VVI	Green Lake County	43.8	-89.0	PR	Celba iviunicipio	18.3	-65.7
WI	Iowa County	43.0	-90.1	PR	Ciales Municipio	18.3	-66.5
WI	Iron County	46.3	-90.2	PR	Cidra Municipio	18.2	-66.2
\M/I	Jackson County	11.3	-00.0	PR	Coamo Municipio	18.1	-66.4
10/1	Lefferreen County	42.0	-50.5		Comercie Município	10.1	-00.4
VVI	Jellerson County	43.0	-00.0	PR	Comerio iviunicipio	10.2	-00.2
VVI	Juneau County	43.9	-90.1	IPR	Corozal Municipio	18.3	-66.3
WI	Kenosha County	42.6	-88.0	PR	Culebra Município	18.3	-65.3
WI	Kewaunee County	44.5	-87.6	PR	Dorado Municipio	18.4	-66.3
10/1	La Crosso County	43.0	-01.2	DD	Esiardo Município	19.3	65.7
	La Crosse County	40.5	-91.2		Flavida Município	10.0	-03.7
VVI	Latayette County	42.7	-90.1	PR	Fiorida Municipio	18.4	-66.6
WI	Langlade County	45.2	-89.1	PR	Guánica Municipio	18.0	-66.9
WI	Lincoln County	45.3	-89.7	PR	Guavama Municipio	18.0	-66.1
\M/I	Manitowoo County	44.1	-87.8	PR	Guavanilla Municipio	18.0	-66.8
10/1	Mariathan County	44.0	-07.0		Cuayanna Municipio	10.0	-00.0
VVI	Marathon County	44.9	-69.7	PR	Guaynabo Municipio	16.4	-00.1
WI	Marinette County	45.3	-87.9	PR	Gurabo Municipio	18.3	-66.0
WI	Marguette County	43.8	-89.4	PR	Hatillo Municipio	18.4	-66.8
WI	Menominee County	44 9	-88.6	PR	Hormiqueros Municipio	18.1	-67 1
10/1	Milwoulcoo County	42.0	00.0		Humagaa Municipio	10.1	65.0
VVI	Willwaukee County	43.0	-00.0		Humacao Municipio	10.1	-05.0
VVI	Monroe County	43.9	-90.6	IPR	Isabela Municipio	18.5	-67.0
WI	Oconto County	45.0	-88.2	PR	Jayuya Municipio	18.2	-66.6
WI	Oneida County	45.7	-89.5	PR	Juana Diaz Municipio	18.0	-66.5
W/I	Outagamie County	44.3	-88.4	PR	luncos Município	18.2	-65.9
		44.5	-00.4			10.2	-03.9
VVI	Ozaukee County	43.3	-87.9	PR	Lajas iviunicipio	18.0	-67.0
WI	Pepin County	44.6	-92.0	PR	Lares Municipio	18.3	-66.9
WI	Pierce County	44.7	-92.5	PR	Las Marias Municipio	18.2	-67.0
WI	Polk County	45.5	-92 5	PR	Las Piedras Municipio	18.2	-65.9
10/1	Deuterie County	44.5	-02.0		Laire Municipio	10.2	-05.5
VVI	Portage County	44.5	-69.5	PR	Loiza iviunicipio	16.4	-05.9
VVI	Price County	45.7	-90.4	IPR	Luquillo Municipio	18.4	-65.7
WI	Racine County	42.7	-88.0	PR	Manati Municipio	18.4	-66.5
WI	Richland County	43.4	-90.4	PR	Maricao Municipio	18.2	-67.0
14/1	Book County	40.7	00.1		Mauraha Municipio	10.0	65.0
VVI	HOCK COUNTY	42.1	-09.0		Maunapo Município	10.0	-05.9
VVI	Rusk County	45.4	-91.1	IPR	Mayagiez Municipio	18.2	-67.1
WI	St. Croix County	45.0	-92.5	PR	Moca Municipio	18.4	-67.1
WI	Sauk County	43.4	-89.9	PR	Morovis Municipio	18.3	-66.4
\M/I	Sawver County	15.9	-01 3	PR	Naguabo Municipio	18.2	-65.7
10/1	Chause County	44.0	-01.0		Negative Municipio	10.2	-00.7
VVI	Snawano County	44.0	-00.0	PR	Naranjito Municipio	10.3	-00.3
WI	Sheboygan County	43.7	-87.9	PR	Orocovis Municipio	18.2	-66.4
WI	Taylor County	45.2	-90.5	PR	Patillas Municipio	18.0	-66.0
WI	Trempealeau County	44.3	-91 4	PR	Pe+uelas Municipio	18 1	-66.7
\M/I	Vernon County	13.6	-00.8	PR	Ponce Municipio	18.0	-66.6
10/1	Vilee County	40.0	-30.0		Ousbredilles Municipio	10.0	-00.0
VVI	vitas County	40.0	-69.5	PR	Quebradillas iviunicipio	10.0	-00.9
VVI	Walworth County	42.6	-88.5	IPR	Rincin Municipio	18.3	-67.2
WI	Washburn County	45.9	-91.8	PR	Rio Grande Municipio	18.4	-65.8
WI	Washington County	43.4	-88.2	PR	Sabana Grande Municipio	18.1	-66.9
\M/I	Waukesha County	43.0	-88.3	PR	Salinas Municipio	18.0	-66.3
\A/I	Waunaca County	44.5	- 20.0		San Gormán Municipio	10.0	67.0
	Waupaca County	44.5	-09.0		San German Municipio	10.1	-07.0
VVI	waushara County	44.1	-09.3	INK	San Juan Municipio	10.4	-66.1
WI	Winnebago County	44.1	-88.6	PR	San Lorenzo Municipio	18.2	-66.0
WI	Wood County	44.4	-90.0	PR	San Sebastián Municipio	18.3	-67.0
WY	Albany County	41 4	-105.7	PR	Santa Isabel Municipio	18.0	-66.4
W/W	Pig Horn County	44.5	100.1		Too Alto Municipio	10.0	66.0
VVY	Big Horn County	44.5	-100.1	PR	Toa Alta Municipio	10.4	-00.2
VV Y	Campbell County	44.1	-105.5	IPR	Ioa Baja Municipio	18.4	-66.2
WY	Carbon County	41.7	-106.9	PR	Trujillo Alto Municipio	18.3	-66.0
WY	Converse County	42.9	-105.5	PR	Utuado Municipio	18.3	-66.7
WY	Crock County	44.6	-104.6	PR	Vega Alta Municipio	18.4	-66.3
WX	Eromont County	42.1	-109.7		Voga Raja Municipio	19.4	66.4
VV I	Control County	43.1	-100./	ILLU	vega baja iviunicipio	10.4	-00.4
VVY	Goshen County	42.1	-104.3	PR	Vieques Municipio	18.1	-65.5
WY	Hot Springs County	43.7	-108.3	PR	Villalba Municipio	18.1	-66.5
WY	Johnson County	44.1	-106.6	IPR	Yabucoa Municipio	18.1	-65.9
WY	Laramie County	/1 2	-10/ 9	PB	Vauco Municipio	18.1	-66.0
		41.2	-104.0	l E U		10.1	-00.9
VV T	Lincoin County	42.2	-110./	1			
WY	Natrona County	42.9	-106.5	1			
WY	Niobrara County	43.0	-104.5	1			
WY	Park County	44.6	-109 0	1			
WY	Platte County	40.0	-104.0	1			
	Charidan County	42.2	107.0	1			
VV Y	Sheridan County	44.8	-107.0	1			
WY	Sublette County	42.8	-110.0	1			
WY	Sweetwater County	41.6	-109.2	1			
WY	Teton County	43.6	-110.7	1			
WX	Llinta County	41.2	-110.6	1			
VV Y	Unita County	41.3	-110.0	1			
WY	washakie County	44.0	-107.7	1			
WY	Weston County	43.9	-104.6	1			

Appendix C: Table of time zone difference from UTC

Time Zone	Major Cities	Symbol	Difference from UTC
Atlantic Time	San Juan	AST	-4
Eastern Time	Boston, New York, Washington DC, Miami	EST	-5
Central Time	Minneapolis, New Orleans, Houston, Chicago	CST	-6
Mountain Time	Salt Lake City, Boise, Denver	MST	-7
Pacific Time	Seattle, San Francisco, Los Angeles, Las Vegas	PST	-8
Alaska Time	Fairbanks	AKST	-9
Hawaii-Aleutian Time	Honolulu	HAST	-10

Enter the difference from UTC (Coordinate Universal Time)/GMT (Greenwich Mean Time) for your time zone when you configure the Weather Station as per chapter 3.3.5.

Do not consider daylight saving time when making this entry. Follow instructions for setting the status of daylight saving time as a separate entry.

WARRANTY INFORMATION

La Crosse Technology, Ltd provides a 1-year limited warranty on this product against manufacturing defects in materials and workmanship.

This limited warranty begins on the original date of purchase, is valid only on products purchased and used in North America and only to the original purchaser of this product. To receive warranty service, the purchaser must contact La Crosse Technology, Ltd for problem determination and service procedures. Warranty service can only be performed by a La Crosse Technology, Ltd authorized service center. The original dated bill of sale must be presented upon request as proof of purchase to La Crosse Technology, Ltd's authorized service center.

La Crosse Technology, Ltd will repair or replace this product, at our option and at no charge as stipulated herein, with new or reconditioned parts or products if found to be defective during the limited warranty period specified above. All replaced parts and products become the property of La Crosse Technology, Ltd and must be returned to La Crosse Technology, Ltd.

Replacement parts and products assume the remaining original warranty, or ninety (90) days, whichever is longer. La Crosse Technology, Ltd will pay all expenses for labor and materials for all repairs covered by this warranty. If necessary repairs are not covered by this warranty, or if a product is examined which is not in need or repair, you will be charged for the repairs or examination.

The owner must pay any shipping charges incurred in getting your La Crosse Technology, Ltd product to a La Crosse Technology, Ltd authorized service center.

Your La Crosse Technology, Ltd warranty covers all defects in material and workmanship with the following specified exceptions: (1) damage caused by accident, unreasonable use or neglect (including the lack of reasonable and necessary maintenance); (2) damage occurring during shipment (claims must be presented to the carrier); (3) damage to, or deterioration of, any accessory or decorative surface; (4) damage resulting from failure to follow instructions contained in your owner's manual; (5) damage resulting from the performance of repairs or alterations by someone other than an authorized La Crosse Technology, Ltd authorized service center; (6) units used for other than home use (7) applications and uses that this product was not intended or (8) the products inability to receive a signal due to any source of interference.

This warranty covers only actual defects within the product itself, and does not cover the cost of installation or removal from a fixed installation, normal set-up or adjustments, claims based on misrepresentation by the seller or performance variations resulting from installation-related circumstances.

LA CROSSE TECHNOLOGY, LTD WILL NOT ASSUME LIABILITY FOR INCIDENTAL, CONSE-QUENTIAL, PUNITIVE, OR OTHER SIMILAR DAMAGES ASSOCIATED WITH THE OPERATION OR MALFUNCTION OF THIS PRODUCT. THIS PRODUCT IS NOT TO BE USED FOR MEDICAL PURPOSES OR FOR PUBLIC INFORMATION. THIS PRODUCT IS NOT A TOY. KEEP OUT OF CHILDREN'S REACH.

This warranty gives you specific legal rights. You may also have other rights specific to your State. Some States do no allow the exclusion of consequential or incidental damages therefore the above exclusion of limitation may not apply to you.

For warranty work, technical support, or information contact:

La Crosse Technology, Ltd 2809 Losey Blvd S. La Crosse, WI 54601 Phone: 608.782.1610 Fax: 608.796.1020

e-mail: support@lacrossetechnology.com (warranty work)

sales@lacrossetechnology.com (information on other products)

web:

www.lacrossetechnology.com

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