

March 19-20, 2012 Severe Storms Event

A severe storm and minor flood event occurred from late afternoon on March 19 through mid-morning on March 20, 2012. There were three confirmed tornadoes just to the southwest of metro San Antonio, over two dozen hail reports (including up to baseball-size), and widespread rainfall of 2 to 5 inches along and east of U.S. Highway 281. Minor to moderate river flooding occurred at locations along and east of the Interstate 35 corridor, and numerous low water crossings and other flood prone urban locations were under water through early afternoon on the 20th.

The primary ingredients producing the event included a deep upper level trough (i.e., stretching from the Canadian border into northern Mexico), cold front with a Pacific-origin airmass behind it (i.e., slightly cooler, but much drier air), and moist Gulf air (dew points in the 60s) in place across South Central Texas ahead of the upper level trough and cold front, which moved slowly from west to east across Texas. Thunderstorms first developed along the front in Val Verde County, and quickly became severe, with the first severe thunderstorm warning being issued at 2:30 pm CDT. These storms in the west eventually congealed into a line of storms along the eastward-moving front, while additional supercell storms developed just west of Interstate 35 and to the southwest of metro San Antonio.

One of the supercells produced three tornadoes (details in a table below) between 8:06 and 8:30 pm, with initial estimates of a dozen people injured, 22 homes destroyed, 16 with major damage, and 9 with minor damage. Most of the homes destroyed or with major damage were mobile homes. There was one fatality; a woman in her car was swept of the road by West Yegua Creek near Fedor. A Mesoscale Convective System (MCS) comprised of storms that had developed earlier over the west, then slowly moved across the area, bringing heavy rain, gusty winds, and pea to dime-size hail. Some of the larger rainfall amounts included 4.83 inches 5 miles north-northwest of Burnet, 4.78 inches 3 1/2 miles northwest of Marble Falls, and 4.02 inches at Tow.

The following pages contain selected graphics, pictures, and tables from the event.

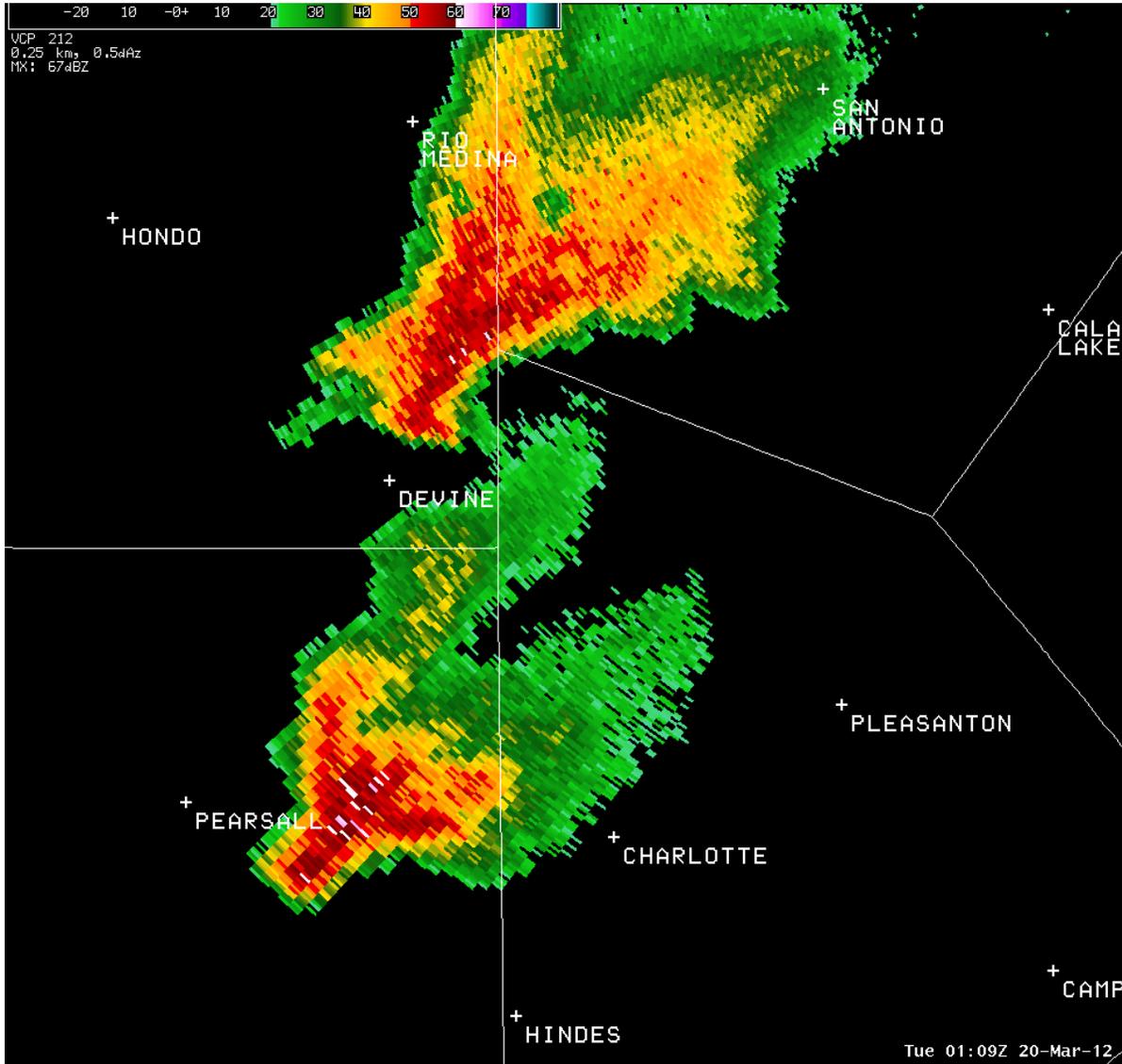


Figure 1. Radar Base Reflectivity, 0.25 km resolution, at 8:09 pm CDT March 19, 2012, near the time of the first tornado touchdown near Devine, TX.

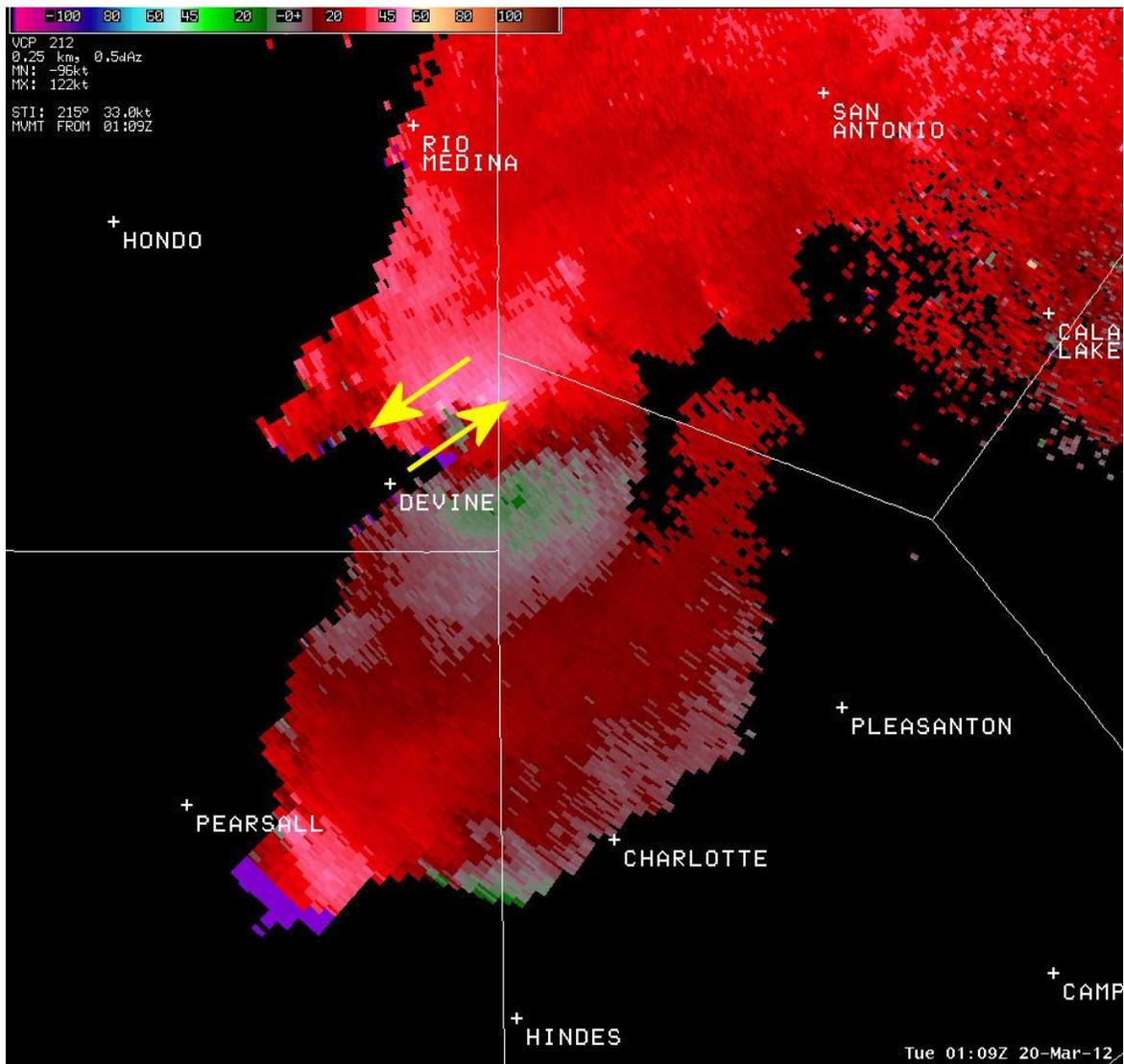


Figure 2. Radar Storm-Relative Velocity, 0.25 km resolution, at 8:09 pm CDT March 19, 2012, near the time of the first tornado touchdown near Devine, TX. Yellow arrows show the mesocyclone rotation, the tornado being located in-between the arrows.

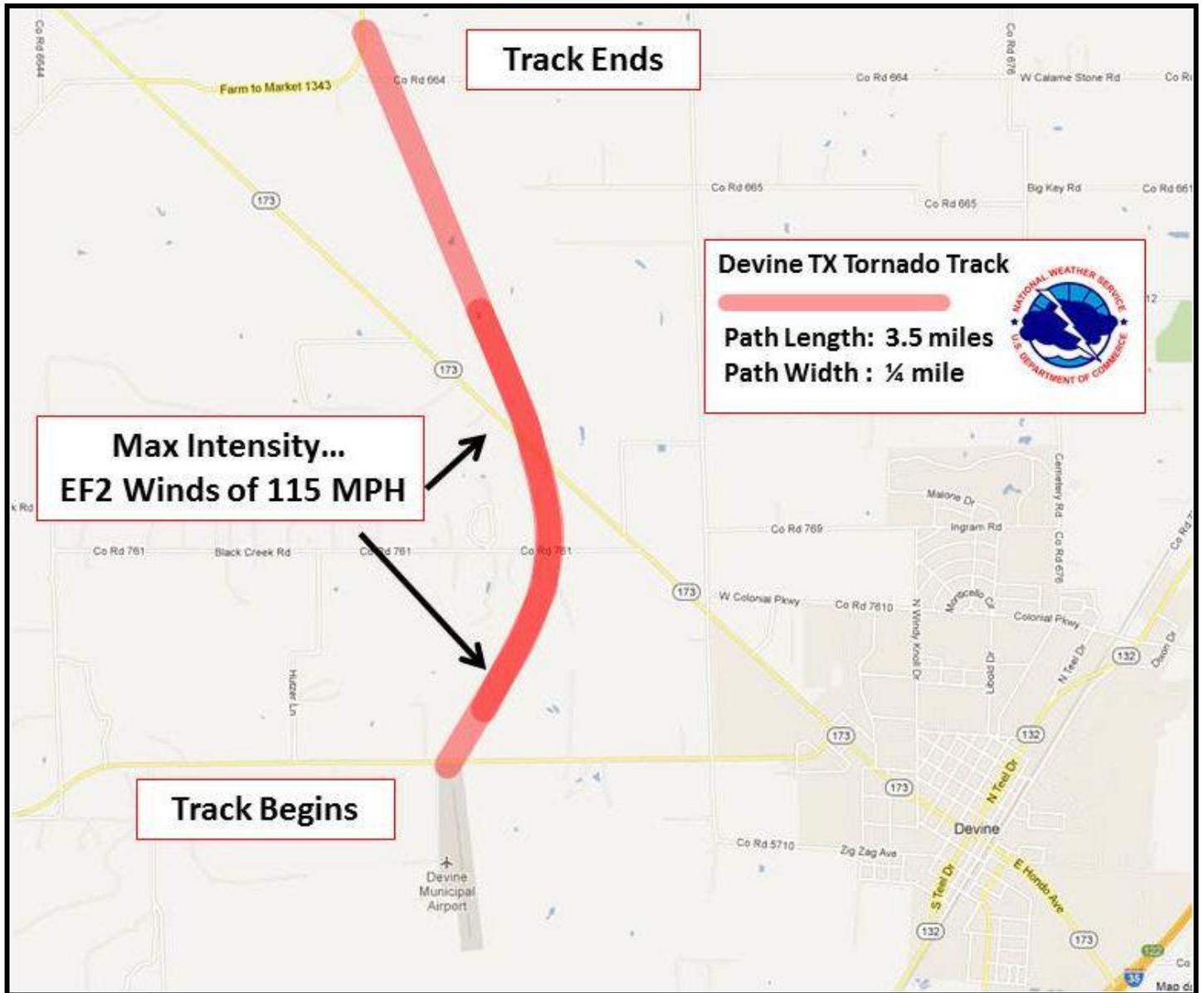


Figure 3. Storm survey track for the Devine, TX, EF2 Tornado on March 19, 2012.



Figure 4. A mobile home destroyed by the EF2 Tornado near Devine, TX, on March 19, 2012.



Figure 5. A steel frame shed severely damaged by the EF1 Tornado near Natalia, TX, on March 19, 2012.

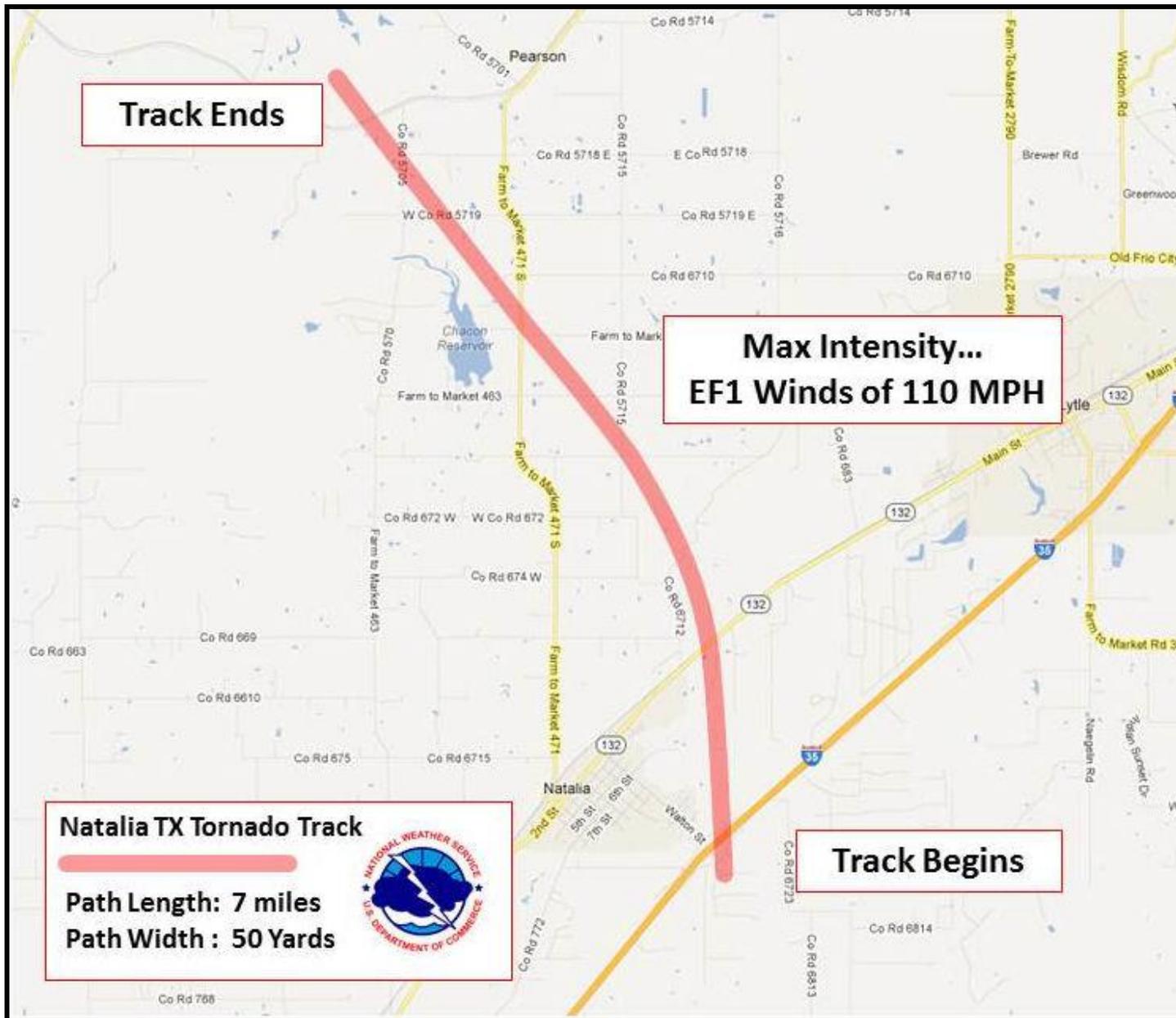


Figure 6. Storm survey track for the Natalia, TX, EF1 Tornado on March 19, 2012.

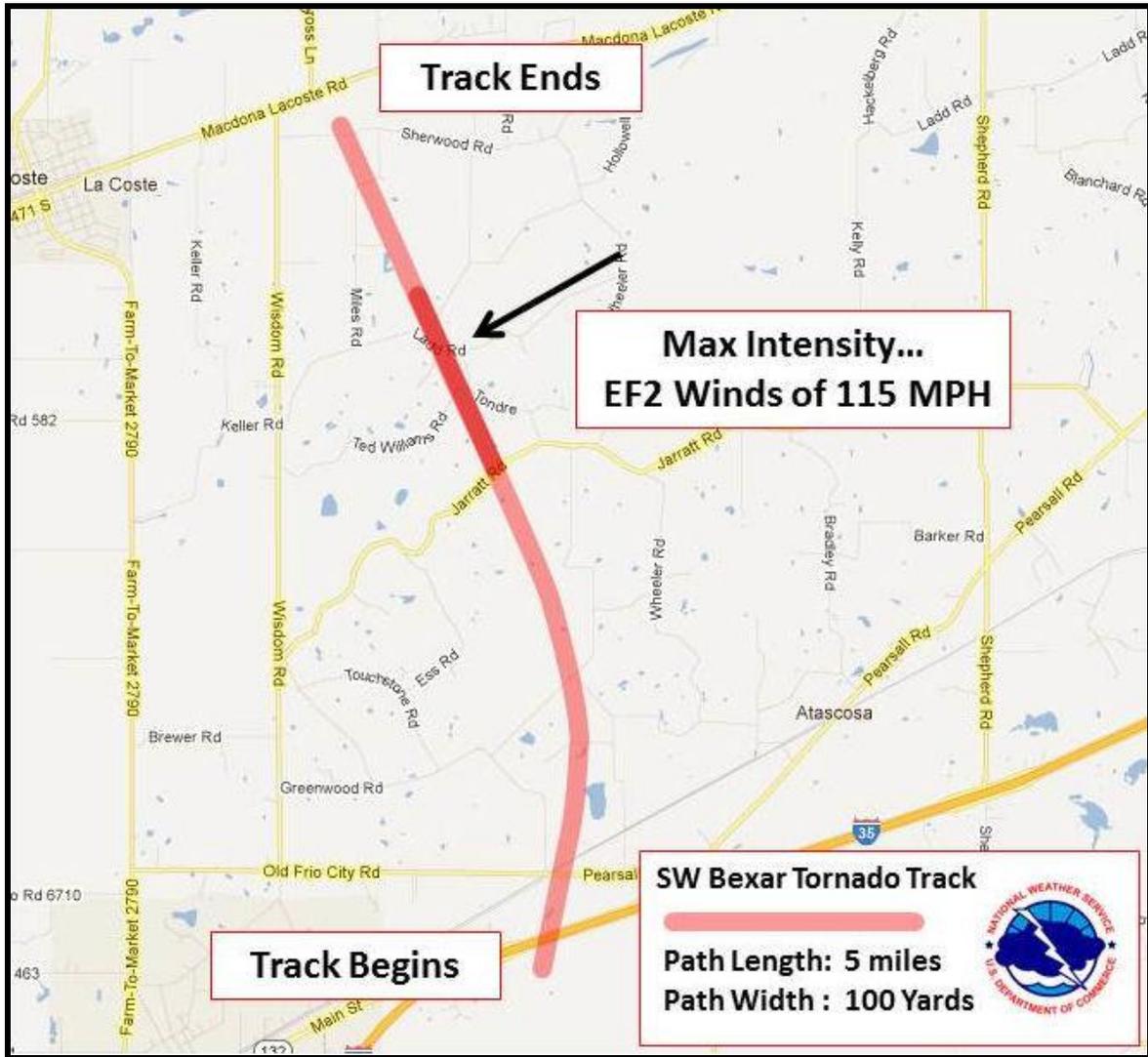


Figure 7. Storm survey track for the southwestern Bexar County, TX, EF2 Tornado on March 19, 2012.



Figure 8. A home severely damaged By the EF2 Tornado in southwestern Bexar County, TX, on March 19, 2012.

PUBLIC INFORMATION STATEMENT

NATIONAL WEATHER SERVICE AUSTIN/SAN ANTONIO TX
442 PM CDT TUE MAR 20 2012

...PRELIMINARY STORM DAMAGE SURVEY FOR MEDINA AND BEXAR COUNTIES...

A NATIONAL WEATHER SERVICE STORM DAMAGE SURVEY WAS CONDUCTED THIS MORNING AND AFTERNOON IN SOUTHEAST MEDINA COUNTY AND SOUTHWEST BEXAR COUNTY. THE FOLLOWING INFORMATION SHOULD BE USED AS PRELIMINARY AND IS STILL SUBJECT TO CHANGE.

SOUTHWEST BEXAR COUNTY

EVENT DATE: MARCH 19 2012
EVENT RATING: EF2
ESTIMATED PEAK WINDS (MPH): 115 MPH
FATALITIES: 0
EVENT START TIME/LOCATION COORDINATES: 29.245/-98.761 AT 822 PM
EVENT END TIME/LOCATION COORDINATES: 29.315/-98.783 AT 832 PM
DAMAGE PATH LENGTH (IN MILES): 5 MILES
DAMAGE PATH WIDTH (IN YARDS): 100 YARDS

NATALIA, MEDINA COUNTY

EVENT DATE: MARCH 19 2012
EVENT RATING: EF1
ESTIMATED PEAK WINDS (MPH): 110 MPH
FATALITIES: 0
EVENT START TIME/LOCATION COORDINATES: 29.182/-98.841 AT 805 PM
EVENT END TIME/LOCATION COORDINATES: 29.271/-98.892 AT 820 PM
DAMAGE PATH LENGTH (IN MILES): 7 MILES
DAMAGE PATH WIDTH (IN YARDS): 50 YARDS

DEVINE, MEDINA COUNTY

EVENT DATE: MARCH 19 2012
EVENT RATING: EF2
ESTIMATED PEAK WINDS (MPH): 115 MPH
FATALITIES: 0
EVENT START TIME/LOCATION COORDINATES: 29.144/-98.942 AT 750 PM
EVENT END TIME/LOCATION COORDINATES: 29.190/-98.949 AT 800 PM
DAMAGE PATH LENGTH (IN MILES): 3.5 MILES
DAMAGE PATH WIDTH (IN MILES): 1/4 MILE WIDE

THESE THREE TORNADOES CAME FROM THE SAME PARENT SUPERCELL THUNDERSTORM AS IT MOVED FROM SOUTHEAST MEDINA COUNTY INTO SOUTHWEST BEXAR COUNTY. THE TORNADOES ALL HAVE CURVED PATHS THAT MOVED GENERALLY NORTH AND THEN NORTHWEST AS THE TORNADOES WEAKENED.

DAMAGE ASSESSMENT IS STILL ONGOING AND OTHER TORNADO TRACKS ARE STILL POSSIBLE WITH THE STORMS FROM MARCH 19TH.

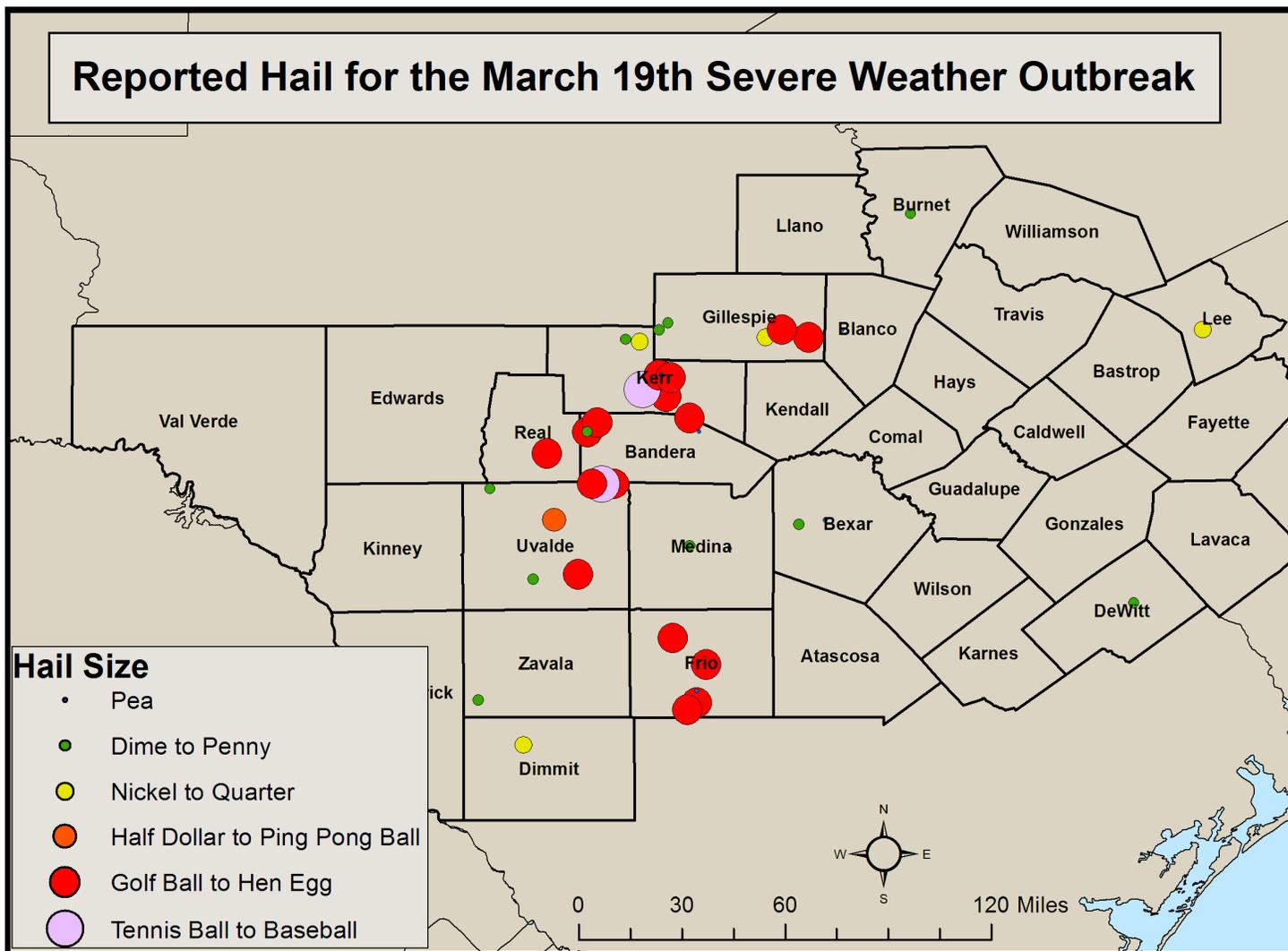


Figure 9. Preliminary hail reports from March 19, 2012.

PRELIMINARY LOCAL STORM REPORT...SUMMARY

NATIONAL WEATHER SERVICE AUSTIN/SAN ANTONIO TX

332 PM CDT TUE MAR 20 2012

..TIME...	...EVENT...	...CITY LOCATION...	...LAT.LON...
..DATE...MAG....	..COUNTY LOCATION..ST..	...SOURCE....
	..REMARKS..		

0310 PM	HAIL	12 NE JUNO	30.27N 100.97W
03/19/2012	M1.00 INCH	VAL VERDE TX	COCORAHNS

0532 PM	HAIL	4 S KNIPPA	29.24N 99.63W
03/19/2012	E1.75 INCH	UVALDE TX	EMERGENCY MNGR

GOLFBALL SIZE HAIL REPORTED 4 MILES SOUTH OF HIGHWAY 90 NEAR KNIPPA.

0612 PM HAIL 3 E UTOPIA 29.62N 99.48W
03/19/2012 E1.75 INCH UVALDE TX CO-OP OBSERVER

QUARTER UP TO GOLFBALL HAIL IN UTOPIA.

0625 PM HAIL 3 NE DILLEY 28.70N 99.13W
03/19/2012 E1.75 INCH FRIO TX PUBLIC

0635 PM HAIL 2 N LEAKEY 29.75N 99.76W
03/19/2012 E1.75 INCH REAL TX LAW ENFORCEMENT

0635 PM HAIL 6 NNE DILLEY 28.75N 99.13W
03/19/2012 E0.25 INCH FRIO TX PUBLIC

0639 PM HAIL 6 ESE FRIO TOWN 28.97N 99.23W
03/19/2012 E1.75 INCH FRIO TX PUBLIC

INTERSECTION OF US57 AND FM140 WALL CLOUD WENT OVER HOUSE

0646 PM HAIL 2 S PEARSALL 28.86N 99.09W
03/19/2012 E1.75 INCH FRIO TX PUBLIC

DAMAGE TO PICKUP ON FM1582

0648 PM HAIL 6 NW MOUNTAIN HOME 30.23N 99.43W
03/19/2012 E0.70 INCH KERR TX AMATEUR RADIO

0654 PM HAIL 4 N MOUNTAIN HOME 30.22N 99.37W
03/19/2012 E1.00 INCH KERR TX PUBLIC

0700 PM HAIL 2 N LEAKEY 29.75N 99.76W
03/19/2012 M1.75 INCH REAL TX DEPT OF HIGHWAYS

GOLFBALL SIZE HAIL ALONG WITH 2 INCHES OF RAINFALL IN LESS THAN AN HOUR.

0705 PM HAIL HARPER 30.30N 99.25W
03/19/2012 E0.70 INCH GILLESPIE TX PUBLIC

ON GOING DIME HAIL IN THE CITY OF HARPER.

0706 PM HAIL LOST MAPLES STATE PARK 29.84N 99.59W
03/19/2012 E0.70 INCH BANDERA TX PARK SERVICE

0712 PM HAIL LOST MAPLES STATE PARK 29.84N 99.59W
03/19/2012 E1.75 INCH BANDERA TX PARK SERVICE

0715 PM FLASH FLOOD 3 SW HARPER 30.27N 99.29W
03/19/2012 GILLESPIE TX COCORAHS

LOW WATER CROSSING FLOODED... SMALL TREE LIMBS DOWN...
VERY HEAVY RAIN

0715 PM HEAVY RAIN 3 SW HARPER 30.27N 99.29W
03/19/2012 M3.99 INCH GILLESPIE TX COCORAHS

LOW WATER CROSSING FLOODED... SMALL TREE LIMBS DOWN...
VERY HEAVY RAIN

0715 PM HAIL 3 SW HARPER 30.27N 99.29W
03/19/2012 E0.75 INCH GILLESPIE TX COCORAHS

LOW WATER CROSSING FLOODED... SMALL TREE LIMBS DOWN...
VERY HEAVY RAIN

0726 PM HAIL DILLEY 28.67N 99.17W
03/19/2012 E1.75 INCH FRIO TX PUBLIC

0741 PM HAIL 7 W CASTROVILLE 29.35N 98.99W
03/19/2012 E0.25 INCH MEDINA TX AMATEUR RADIO

0800 PM HAIL 2 N LEAKEY 29.75N 99.76W
03/19/2012 E1.75 INCH REAL TX DEPT OF HIGHWAYS

PEA TO GOLFBALL SIZE HAIL WITH SOME DAMAGE.

0806 PM TORNADO 2 SSW LYTLE 29.21N 98.81W
03/19/2012 MEDINA TX TRAINED SPOTTER

POWER FLASHES AND OVERTURNED SEMI TRAILER AT I-35 MILE
MARKER 127.

0810 PM HAIL 3 W INGRAM 30.08N 99.28W
03/19/2012 M1.75 INCH KERR TX COCORAHS

INCH TO INCH AND THREE QUARTER SIZE HAIL.

0815 PM HAIL 6 SSW INGRAM 29.99N 99.26W
03/19/2012 E1.75 INCH KERR TX BROADCAST MEDIA

GOLFBALL HAIL REPORTED NEAR UPPER TURTLE CREEK 6 1 2
MILES WEST OF HIGHWAY 16.

0815 PM HAIL 4 SSW HUNT 30.02N 99.36W
03/19/2012 E2.75 INCH KERR TX COCORAHS

WALNUT SIZE TO NEAR BASEBALL SIZE HAIL.

0820 PM	TORNADO	3 NNW DEVINE	29.19N 98.93W
03/19/2012		MEDINA	TX DEPT OF HIGHWAYS
POWERLINES KNOCKED DOWN AT COUNTY ROAD 664 AND 5710 NEAR DEVINE.			
0828 PM	HAIL	INGRAM	30.08N 99.24W
03/19/2012	E1.00 INCH	KERR	TX CO-OP OBSERVER
0829 PM	HAIL	3 W INGRAM	30.08N 99.29W
03/19/2012	E1.75 INCH	KERR	TX PUBLIC
0830 PM	TORNADO	2 ESE LACOSTE	29.30N 98.78W
03/19/2012		BEXAR	TX EMERGENCY MNGR
POSSIBLE TORNADO DAMAGE OF 6 HOMES ON TED WILLIAMS AND OBRIEN ROAD...AND LADD ROAD. TWO NON-LIFE THREATENING INJURIES WERE REPORTED.			
0830 PM	HAIL	INGRAM	30.07N 99.24W
03/19/2012	M1.75 INCH	KERR	TX CO-OP OBSERVER
GOLFBALL SIZE HAIL.			
0843 PM	HAIL	1 S SEA WORLD	29.45N 98.70W
03/19/2012	E0.50 INCH	BEXAR	TX LAW ENFORCEMENT
HALF INCH SIZE HAIL NEAR SEA WORLD.			
0905 PM	HAIL	3 S CONCAN	29.47N 99.73W
03/19/2012	E1.25 INCH	UVALDE	TX EMERGENCY MNGR
0905 PM	HAIL	3 W INGRAM	30.08N 99.28W
03/19/2012	M0.25 INCH	KERR	TX COCORAHS
PEA SIZE HAIL			
0920 PM	HAIL	UTOPIA	29.62N 99.53W
03/19/2012	E2.50 INCH	UVALDE	TX EMERGENCY MNGR
0930 PM	HAIL	3 SSW CAMP VERDE	29.84N 99.12W
03/19/2012	M0.25 INCH	BANDERA	TX COCORAHS
PEA SIZE HAIL.			
0943 PM	HAIL	5 NNE MONTELL	29.60N 100.00W
03/19/2012	M0.50 INCH	UVALDE	TX COCORAHS
NO DAMAGES 2 MIN EVENT			

0945 PM HAIL 2 W UVALDE 29.22N 99.82W
03/19/2012 E0.50 INCH UVALDE TX LAW ENFORCEMENT

HALF INCH SIZE HAIL.

1000 PM HAIL 10 N VANDERPOOL 29.88N 99.55W
03/19/2012 M1.75 INCH BANDERA TX CO-OP OBSERVER

2.04 INCHES OF RAINFALL ALSO

1000 PM HAIL 2 W UTOPIA 29.62N 99.57W
03/19/2012 M1.75 INCH UVALDE TX NWS EMPLOYEE

HAIL RANGED IN SIZE FROM PEA TO GOLF BALL SIZE

1000 PM FLASH FLOOD 10 SSE HARPER 30.17N 99.19W
03/19/2012 GILLESPIE TX COCORAHS

MAJOR FLOODING AFFECTED 300 HOMES ON RANCH PROPERTY...
ROADS CLOSED.

1020 PM HAIL 1 WNW EAGLE PASS 28.71N 100.50W
03/19/2012 E0.50 INCH MAVERICK TX COCORAHS

HALF INCH SIZE HAIL DID SOME MINOR TREE DAMAGE.

1030 PM FLASH FLOOD 2 NW KERRVILLE 30.06N 99.16W
03/19/2012 KERR TX DEPT OF HIGHWAYS

FM1338 CLOSED FROM SH27 NORTH TO GILLESPIE CO LINE DUE
TO FLOODED LOW WATER CROSSINGS.

1034 PM HAIL 3 SE FREDERICKSBURG 30.24N 98.84W
03/19/2012 E1.00 INCH GILLESPIE TX TRAINED SPOTTER

1040 PM HAIL 4 WNW CAMP VERDE 29.90N 99.16W
03/19/2012 E1.75 INCH KERR TX PUBLIC

4.70 IN RAIN. HAIL FELL FO ABOUT AN HOUR. MOSTLY PEA TO
DIME SIZE WITH GOLF BALL MIXED IN.

1041 PM HAIL 2 W LBJ STATE PARK 30.24N 98.66W
03/19/2012 E1.75 INCH GILLESPIE TX PUBLIC

REPORT RELAYED BY BROADCAST MEDIA OF GOLFBALL SIZE HAIL
IN STONEWALL.

1041 PM HAIL 6 E FREDERICKSBURG 30.27N 98.77W
03/19/2012 E2.00 INCH GILLESPIE TX TRAINED SPOTTER

2 INCH HAIL EAST OF FREDERICKSBURG NEAR HIGHWAY 290
REPORTED BY SPOTTER.

1043 PM	HAIL	BURNET		30.76N 98.23W
03/19/2012	E0.70 INCH	BURNET	TX	LAW ENFORCEMENT
1057 PM	HAIL	7 W JOHNSON CITY		30.27N 98.52W
03/19/2012	E0.25 INCH	BLANCO	TX	PUBLIC
1120 PM	FLASH FLOOD	INGRAM		30.08N 99.24W
03/19/2012		KERR	TX	FIRE DEPT/RESCUE

HIGHWAY 39 FROM INGRAM TO HUNT CLOSED DUE TO WATER OVER THE ROAD...AND SEVERAL OTHER LOW WATER CROSSING CLOSED IN THE COUNTY.

1157 PM	FLASH FLOOD	4 W MEDINA		29.80N 99.32W
03/19/2012		BANDERA	TX	DEPT OF HIGHWAYS

FM337 FROM MEDINA TO VANDERPOOL CLOSED DUE TO FLOODED LOW WATER CROSSINGS

1201 AM	FLASH FLOOD	7 S KERRVILLE		29.94N 99.14W
03/20/2012		KERR	TX	DEPT OF HIGHWAYS

FM2771 CLOSED DUE TO FLOODED LOW WATER CROSSINGS

1201 AM	HAIL	2 SE LEON VALLEY		29.47N 98.59W
03/20/2012	E0.25 INCH	BEXAR	TX	COCORAHS

1210 AM	HAIL	HONDO		29.36N 99.16W
03/20/2012	E0.50 INCH	MEDINA	TX	PUBLIC

1215 AM	FLASH FLOOD	10 SSW KERRVILLE		29.91N 99.20W
03/20/2012		KERR	TX	DEPT OF HIGHWAYS

SH16 CLOSED SOUTH OF FM1273 DUE TO FLOODED LOW WATER CROSSINGS

1230 AM	FLASH FLOOD	8 NW MARBLE FALLS		30.66N 98.37W
03/20/2012		BURNET	TX	DEPT OF HIGHWAYS

FM2342 CLOSED FROM PR4 SOUTH TO CAMP BUCKNER DUE TO FLOODED LOW WATER CROSSINGS

0100 AM	FLASH FLOOD	1 S BANDERA		29.71N 99.07W
03/20/2012		BANDERA	TX	LAW ENFORCEMENT

HIGHWAY 173 SOUTH TO DEVINE CLOSED DUE TO HIGH WATER.

0101 AM	TSTM WND GST	2 E PFLUGERVILLE		30.44N 97.58W
03/20/2012	E50 MPH	TRAVIS	TX	PUBLIC

50 MPH WIND GUST AT LAKE PFLUGERVILLE.

0106 AM FLASH FLOOD 3 W TARPLEY 29.63N 99.33W
03/20/2012 BANDERA TX DEPT OF HIGHWAYS
FM470 FROM TARPLEY TO UTOPIA CLOSED DUE TO FLOODED LOW
WATER CROSSINGS

0110 AM FLASH FLOOD 2 N MEDINA 29.83N 99.25W
03/20/2012 BANDERA TX DEPT OF HIGHWAYS
SH16 CLOSED FROM KERR CO LINE SOUTH TO FM2828 DUE TO
WATER OVER HWY

0110 AM FLASH FLOOD 9 N BURNET 30.89N 98.23W
03/20/2012 BURNET TX DEPT OF HIGHWAYS
FM2340 CLOSED EAST OF US281 DUE TO FLOODED LOW WATER
CROSSINGS

0115 AM TSTM WND GST SAN ANTONIO 29.46N 98.51W
03/20/2012 M50 MPH BEXAR TX AMATEUR RADIO
50 MPH WIND GUST REPORTED AT 1604 AND BANDERA IN SAN
ANTONIO.

0120 AM HAIL 1 SSW CARRIZO SPRINGS 28.52N 99.86W
03/20/2012 E1.00 INCH DIMMIT TX COCORAHS

0124 AM FLASH FLOOD 7 S VANDERPOOL 29.64N 99.55W
03/20/2012 BANDERA TX DEPT OF HIGHWAYS
FM187 CLOSED FROM VANDERPOOL SOUTH TO FM470 DUE TO
FLOODED LOW WATER CROSSING.

0130 AM FLASH FLOOD 2 S MARBLE FALLS 30.55N 98.27W
03/20/2012 BURNET TX DEPT OF HIGHWAYS
FM2147 CLOSED FROM US281 EAST DUE TO FLOODED LOW WATER
CROSSING

0132 AM FLASH FLOOD 1 N BERTRAM 30.76N 98.06W
03/20/2012 BURNET TX DEPT OF HIGHWAYS
FM1174 CLOSED FROM SH29 NORTH DUE TO FLOODED LOW WATER
CROSSINGS

0141 AM FLASH FLOOD 2 NNE BURNET 30.79N 98.22W
03/20/2012 BURNET TX DEPT OF HIGHWAYS
FM963 CLOSED FROM BURNET NORTH TO BETHEL DUE TO FLOODED
LOW WATER CROSSINGS

0142 AM FLASH FLOOD 2 NE BERTRAM 30.76N 98.03W
03/20/2012 BURNET TX DEPT OF HIGHWAYS

FM243 CLOSED FROM SH29 TO US183 DUE TO FLOODED LOW
WATER CROSSING

0155 AM FLASH FLOOD 10 SW LLANO 30.65N 98.79W
03/20/2012 LLANO TX DEPT OF HIGHWAYS

FM2323 CLOSED DUE TO FLOODED LOW WATER CROSSINGS
BETWEEN FLAG CREEK AND HICKORY CREEK

0200 AM FLASH FLOOD 2 E BOERNE 29.80N 98.71W
03/20/2012 KENDALL TX COCORAHS

FLOODING OF RESIDENTIAL STREETS

0200 AM FLASH FLOOD 5 NNE BURNET 30.83N 98.20W
03/20/2012 BURNET TX LAW ENFORCEMENT

NUMEROUS RAODS IN BURNET CLOSED INCLUDING HIGHWAY 120
AND 963.

0207 AM FLASH FLOOD AUSTIN 30.31N 97.75W
03/20/2012 TRAVIS TX EMERGENCY MNGR

JOE TANNER LANE...SPICEWOOD SPRINGS ROAD...AND MULTIPLE
OTHER ROAD CLOSURES IN THE CITY OF AUSTIN.

0212 AM FLASH FLOOD SAN ANTONIO 29.46N 98.51W
03/20/2012 BEXAR TX DEPT OF HIGHWAYS

VANCE JACKSON AT SUNBURST...ORSINGER LANE AT
SANDSTONE...AND SLEEPY HOLLOW AT SUNBURST AS WELL AS
OTHER ROADS ARE CLOSED DUE TO FLOODING IN SAN ANTONIO.

0230 AM FLASH FLOOD 3 NE LLANO 30.78N 98.64W
03/20/2012 LLANO TX DEPT OF HIGHWAYS

FM2241 CLOSED FROM SH29 TO BLUFTON STORE DUE TO FLOODED
LOW WATER CROSSINGS

0300 AM FLASH FLOOD 5 S UHLAND 29.90N 97.79W
03/20/2012 CALDWELL TX COCORAHS

HEAVY RAINS CLOSED OFF SEVERAL ROADS AND BRIDGES VCNTY
OF MISTY LAND AND CR229

0300 AM FUNNEL CLOUD 5 E RUNGE 28.89N 97.63W
03/20/2012 DEWITT TX LAW ENFORCEMENT

FUNNEL CLOUD SPOTTED BY MEYERSVILLE.

0304 AM FLASH FLOOD 3 SSW BRIGGS 30.82N 97.93W
03/20/2012 BURNET TX LAW ENFORCEMENT

SWIFT WATER RESCUE IN NORTHEASTERN BURNET COUNTY.

0330 AM FLASH FLOOD SEGUIN 29.58N 97.97W
03/20/2012 GUADALUPE TX LAW ENFORCEMENT

LOCAL RDS CLOSED INCLUDING WEIR LN... SH123 AT
CORDOVA... ZUEHL CROSSING AT CIBOLO CK... REDWOOD RD.

0400 AM HAIL 2 N CUERO 29.12N 97.29W
03/20/2012 E0.50 INCH DEWITT TX PUBLIC

MARBLE SIZE HAIL AND 2.40 INCHES OF RAINFALL.

0400 AM FLASH FLOOD 12 ESE LLANO 30.68N 98.49W
03/20/2012 LLANO TX DEPT OF HIGHWAYS

FM3404 CLOSED DUE TO WATER OVER KINGSLAND SLAB.

0400 AM FLASH FLOOD 3 NW MARBLE FALLS 30.62N 98.31W
03/20/2012 BURNET TX COCORAHS

LOW WATER MARK 1.5 FEET... CLOSED TOBY DRIVE JUST OFF
FM1980

0400 AM FLASH FLOOD 1 N BASTROP 30.13N 97.31W
03/20/2012 BASTROP TX LAW ENFORCEMENT

NUMEROUS LOW WATER CROSSING CLOSED IS MORNING AND SOME
TREE LIMBS IN THE ROAD.

0418 AM FLASH FLOOD NEW BRAUNFELS 29.70N 98.12W
03/20/2012 COMAL TX EMERGENCY MNGR

NUMEROUS ROAD CLOSURES ACROSS CITY DUE TO WATER OVER
HWYS.

0430 AM FLASH FLOOD 5 W GONZALES 29.51N 97.53W
03/20/2012 GONZALES TX LAW ENFORCEMENT

NUMEROUS RAODS CLOSED DUE TO FLOODING... INCLUDING
HIGHWAYS 1680 AND 532.

0430 AM FLASH FLOOD 4 E GONZALES 29.52N 97.38W
03/20/2012 GONZALES TX COCORAHS

RAPID RISES OF WATER OVER ROADWAYS ON FM532 AND FM1680.
DENTON CREEK SPILLING OVER.

0445 AM FLASH FLOOD 5 N LEXINGTON 30.49N 97.01W
03/20/2012 LEE TX LAW ENFORCEMENT

LOW WATER CROSSINGS CLOSED NEAR HIGHWAY 216 AND 334.

0500 AM FLASH FLOOD CEDAR CREEK 30.09N 97.50W
03/20/2012 BASTROP TX LAW ENFORCEMENT

JENKIINS RD. ANSD CR 1764 AND FM 535 ARE CLOSED DUE TO
HIGH WATER.

0600 AM HEAVY RAIN LA VERNIA 29.35N 98.11W
03/20/2012 M2.74 INCH WILSON TX COCORAHS

0600 AM TSTM WND GST LA VERNIA 29.35N 98.11W
03/20/2012 E50 MPH WILSON TX COCORAHS

0755 AM FLASH FLOOD 4 E NEW BRAUNFELS 29.71N 98.06W
03/20/2012 GUADALUPE TX NWS EMPLOYEE

SAUR LN CLOSED DUE TO FLOODED LOW WATER CROSSING

0757 AM FLASH FLOOD 9 ENE GONZALES 29.56N 97.31W
03/20/2012 GONZALES TX DEPT OF HIGHWAYS

FM532 CLOSED AT PEACH CREEK DUE TO LOW WATER CROSSINGS
FLOODED

0825 AM FLASH FLOOD 2 E MOULTON 29.57N 97.11W
03/20/2012 LAVACA TX DEPT OF HIGHWAYS

FM957 FROM MOULTON TO US HWY77 CLOSED DUE TO FLOODED
LOW WATER CROSSING

24Hr Rainfall Ending 7AM Mar 20, 2012

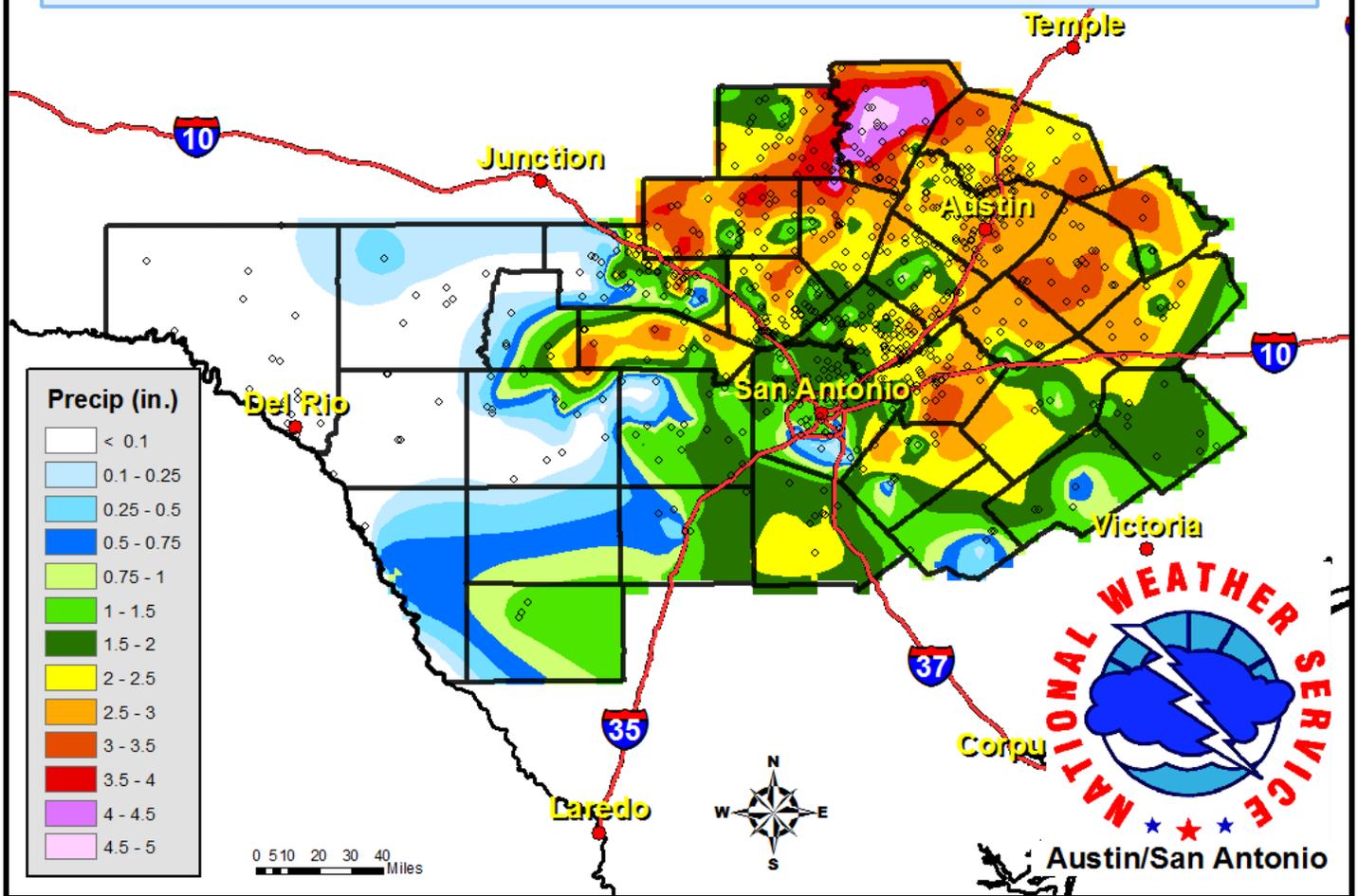


Figure 10. Preliminary 24-hour rainfall map from Cooperative, CoCoRaHS and other agency raingauge network observations.

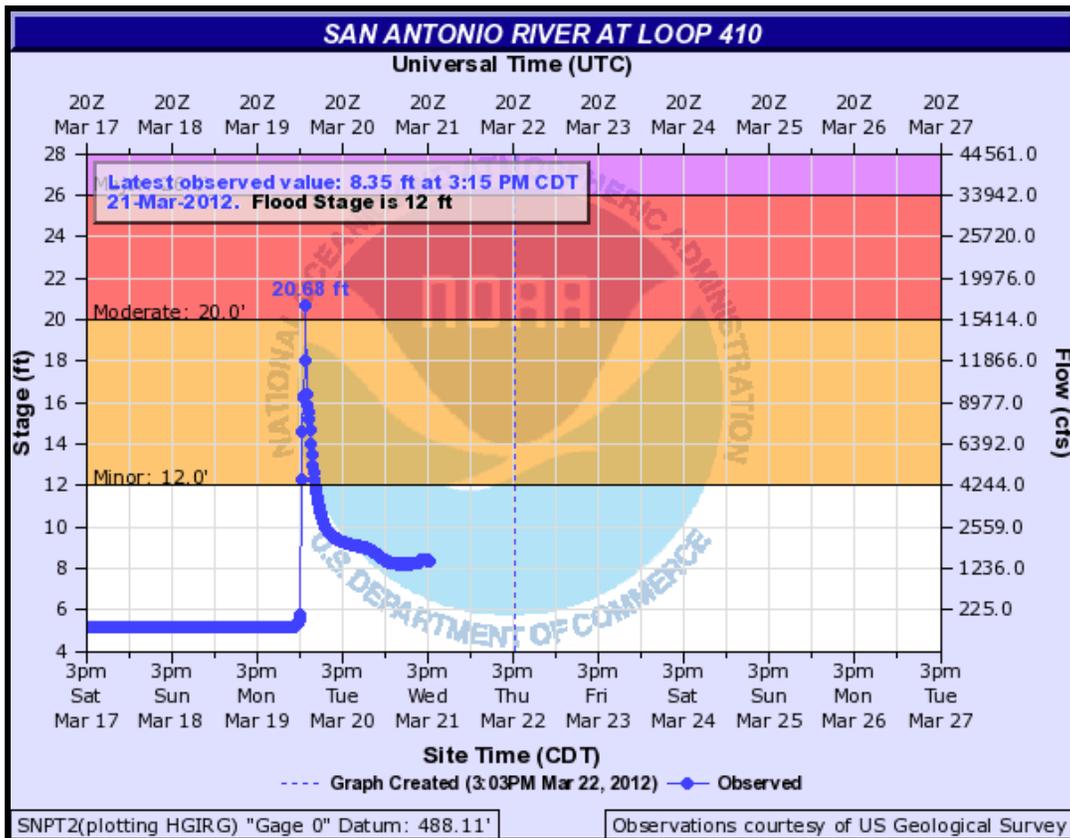


Figure 11. Hydrograph of the river gauge on the San Antonio River at Interstate Loop 410.

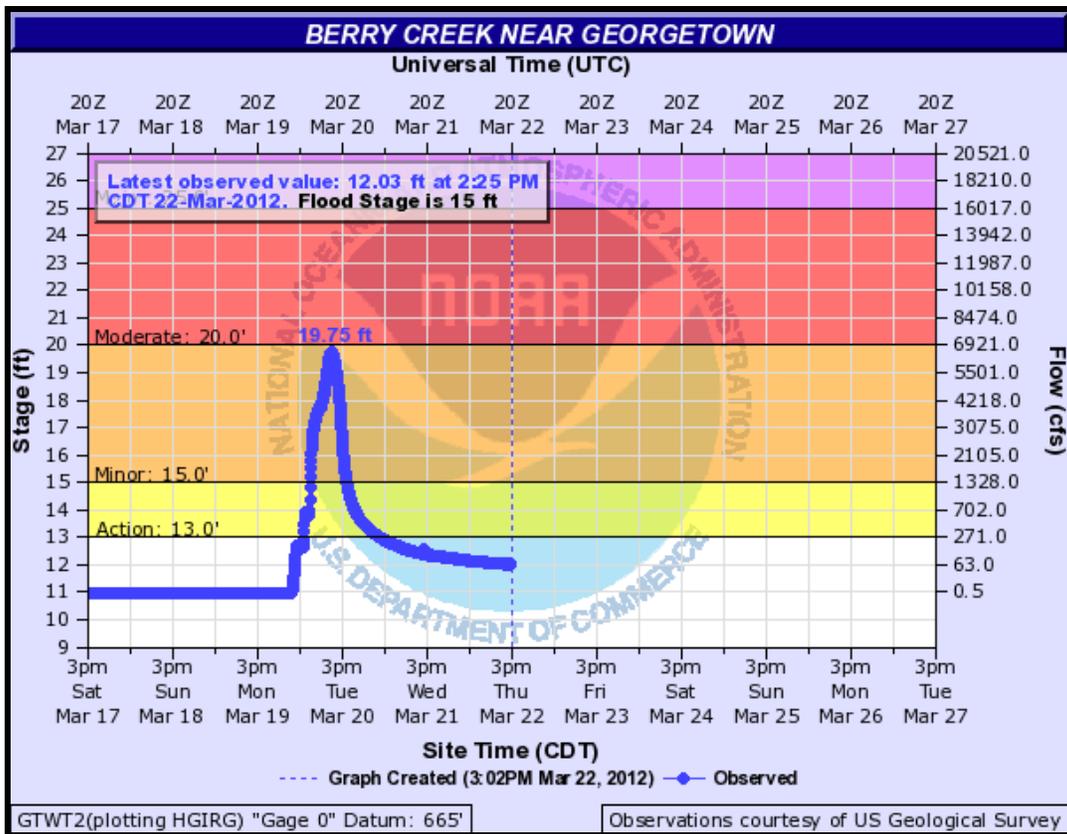


Figure 12. Hydrograph of the river gauge on Berry Creek near Georgetown.