

# Hurricane Wilma

October 23-24, 2005

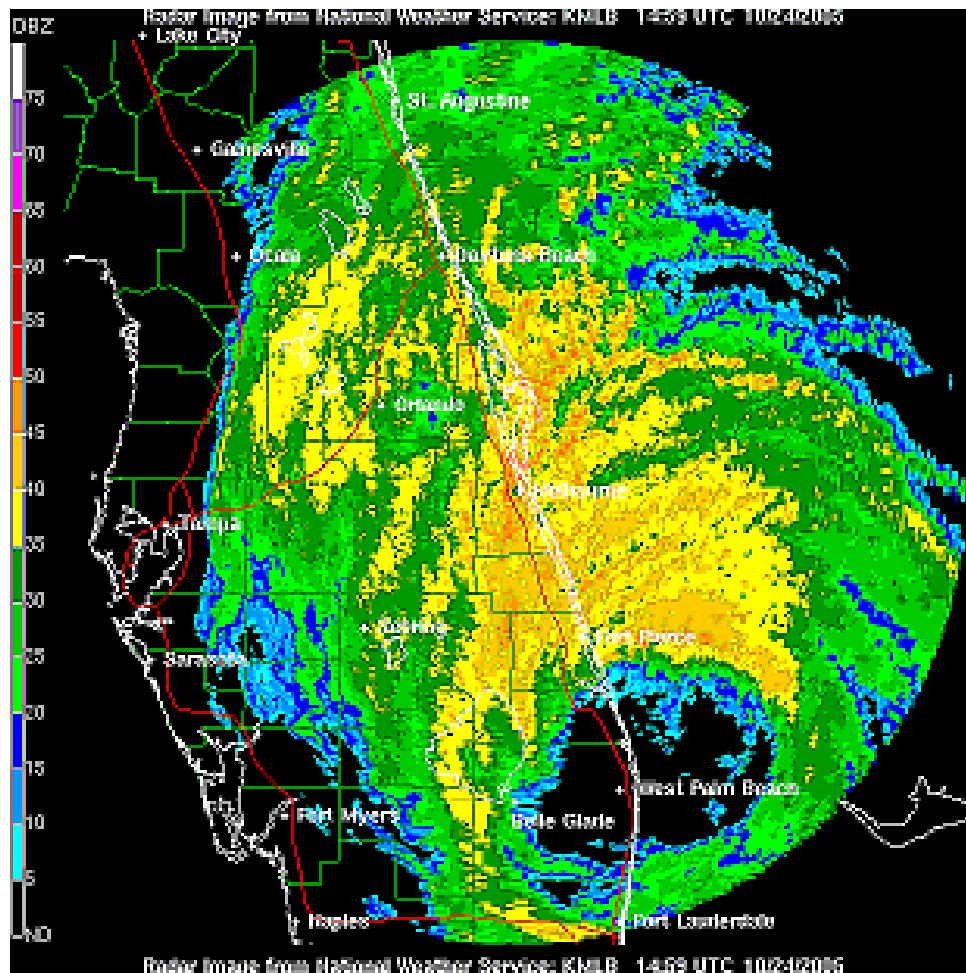
[Preliminary Summary Report for East Central Florida](#)

[Damage Photos](#)

[Storm Rainfall Map](#)

[Operations Floor Photos](#)

[National Hurricane Center Summary of Hurricane Wilma \(pdf\)](#)



# Damage Photos

## Brevard County



**Tornado Damage North of Sebastian Inlet Bridge**



**Tornado Damage North of Sebastian Inlet Bridge**





**Tornado Damage in West Melbourne**



**Tornado Damage in West Melbourne**





**Tornado Damage in West Melbourne**



**Flooding in West Cocoa**



**Trees Down near Sharpes**





**Flooding in Malabar**

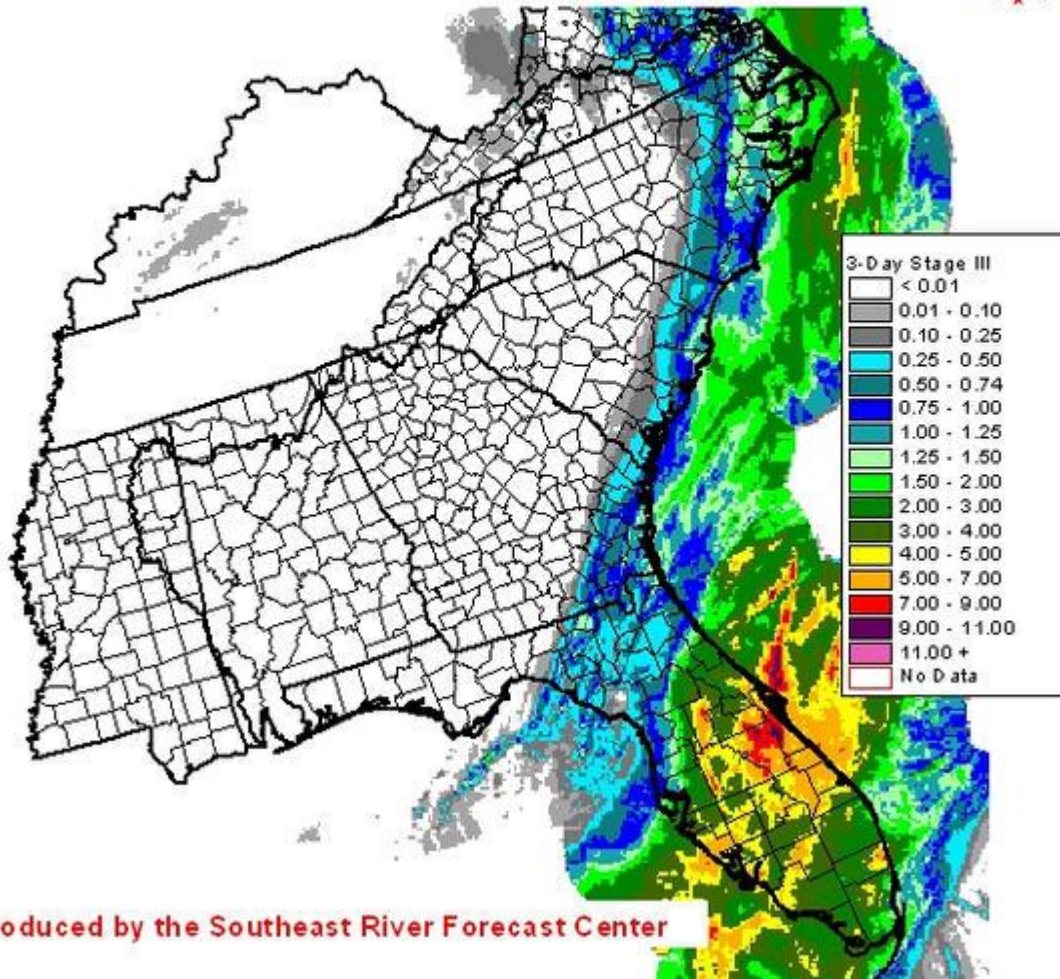
# Hurricane Wilma Storm Total Rainfall



National Weather Service

3-Day Radar-Derived Precipitation Estimates

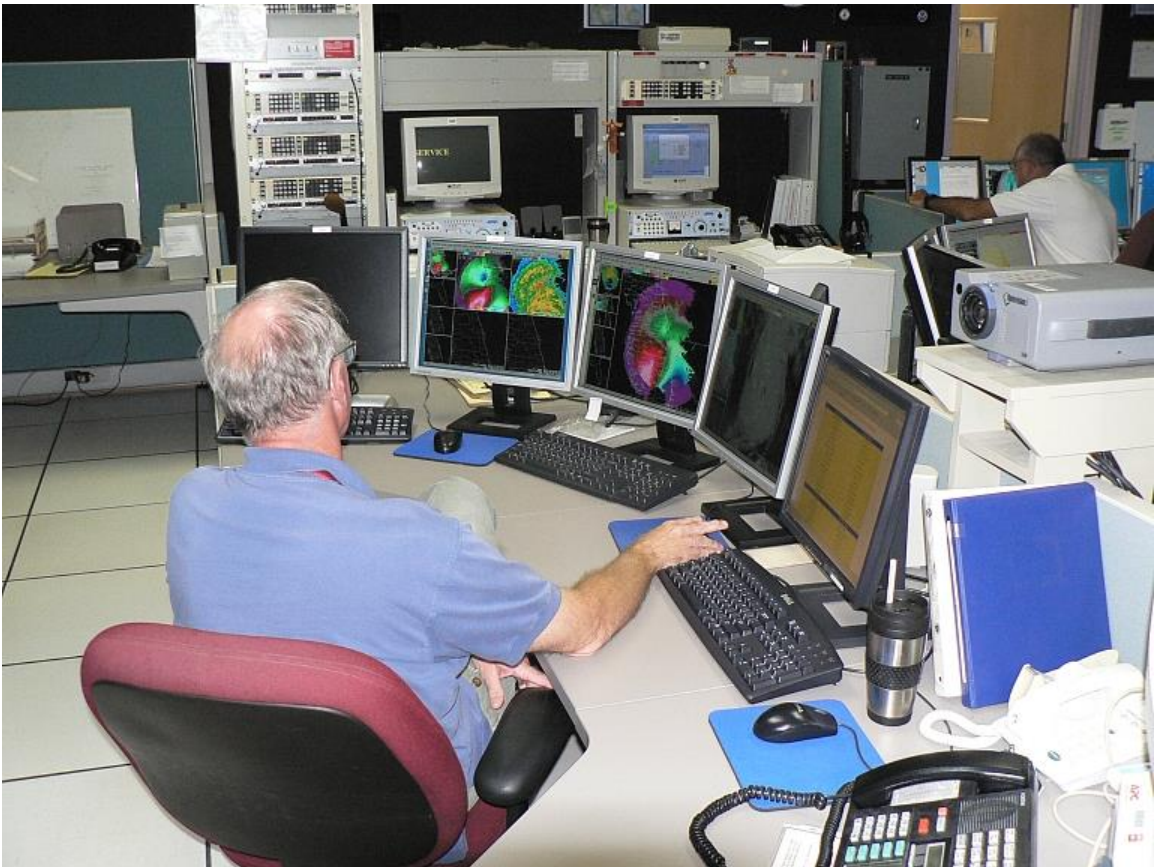
8 AM, 10/22/2005 thru 8 AM, 10/25/2005 Eastern



Produced by the Southeast River Forecast Center

# Operations Floor Photos

October 24, 2005











[Click here for knots to mph conversion](#)

POST TROPICAL CYCLONE REPORT...HURRICANE WILMA  
NATIONAL WEATHER SERVICE MELBOURNE FL



1110 AM EST THU JAN 12 2006

ADDED TORNADO INFORMATION PRECEDED BY \*

COUNTIES INCLUDED...VOLUSIA...LAKE...ORANGE...SEMINOLE...OSCEOLA...  
BREVARD...INDIAN RIVER...OKEECHOBEE...ST. LUCIE...MARTIN

NOTE: ASOS SITES VRB AND FPR FAILED DURING OR PRIOR TO THE HEIGHT OF  
THE STORM. DATA FOR THESE SITES IS INCOMPLETE.

A. WIND DATA

ASOS.....HIGHEST SUSTAINED WIND REPORTED (2-MINUTE AVERAGE)

COUNTY.....	CITY (SID).....	DIR/SPD (KT)...	DATE/TIME (UTC)
ST. LUCIE.....	FT. PIERCE (FPR)...	320/45.....	10/24/05...1606Z
INDIAN RIVER.....	VERO BEACH (VRB)...	050/35.....	10/24/05...1353Z
BREVARD.....	MELBOURNE (MLB)...	330/42.....	10/24/05...1600Z
ORANGE.....	ORLANDO (MCO).....	010/35.....	10/24/05...1212Z
ORANGE.....	ORLANDO (ORL).....	340/30.....	10/24/05...1723Z
LAKE.....	LEESBURG (LEE).....	350/28.....	10/24/05...1806Z
SEMINOLE.....	SANFORD (SFB).....	330/28.....	10/24/05...1859Z
VOLUSIA.....	DAYTONA BEACH (DAB)	330/25.....	10/24/05...1857Z

ASOS.....HIGHEST GUST REPORTED

COUNTY.....	CITY (SID).....	DIR/SPD (KT)...	DATE/TIME (UTC)
ST. LUCIE.....	FT PIERCE (FPR)...	320/68.....	10/24/05...1604Z
INDIAN RIVER.....	VERO BEACH (VRB)...	060/48.....	10/24/05...1352Z
BREVARD.....	MELBOURNE (MLB)...	340/52.....	10/24/05...1535Z
ORANGE.....	ORLANDO (MCO).....	360/42.....	10/24/05...1422Z
ORANGE.....	ORLANDO (ORL).....	330/43.....	10/24/05...1723Z
LAKE.....	LEESBURG (LEE).....	350/35.....	10/24/05...1806Z
SEMINOLE.....	SANFORD (SFB).....	330/37.....	10/24/05...1749Z
VOLUSIA.....	DAYTONA BEACH (DAB)	330/38.....	10/24/05...1534Z

NASA WIND TOWER (ELEVATED) WINDS

CAPE CANAVERAL (BREVARD COUNTY) AIR FORCE STATION MESONET TOWERS

TOWER LC39B (28.60N 80.60W AT 60 FEET AGL)

HIGHEST SUSTAINED 56 KNOTS AT 1640Z

HIGHEST GUST 82 KNOTS AT 1530Z

MARINE BUOY 41009 (20 NM E PORT CANAVERAL) WINDS

HIGHEST SUSTAINED (DIR/SPD)...340/52 AT 10/24/05...1720Z (8-MIN AVG)

HIGHEST GUST (DIR/SPD).....340/68 AT 10/24/05...1720Z

MARINE BUOY 41010 (120 NM E PORT CANAVERAL) WINDS

HIGHEST SUSTAINED (DIR/SPD)...330/62 AT 10/24/05...2050Z (8-MIN AVG)

HIGHEST GUST (DIR/SPD).....330/82 AT 10/24/05...2050Z

ADDITIONAL WIND OBSERVATIONS (UNOFFICIAL)

COUNTY.....	LOCATION.....	WIND (KT).....	DATE/TIME (UTC)
BREVARD.....	PALM BAY COOP.....	PEAK WIND..68 KNOTS..	10/24/05 1602Z
BREVARD.....	PATRICK AFB.....	PEAK WIND..64 KNOTS..	10/24/05 1521Z
BREVARD.....	NWS MELBOURNE.....	PEAK WIND..67 KNOTS..	10/24/05 1607Z
BREVARD.....	MELBOURNE F.I.T....	PEAK WIND..64 KNOTS..	10/24/05 1615Z

FLORIDA AUTOMATED WEATHER NETWORK (FAWN) (10 METERS AGL)

COUNTY.....	CITY.....	HIGHEST SUSTAINED WIND (DIR/SPD) (KT)
ST LUCIE.....	FT PIERCE.....	325/50 AT 10/24/05...1115Z

ORANGE.....APOPKA.....295/26 AT 10/24/05...1915Z  
ORANGE.....AVALON.....360/24 AT 10/24/05...0830Z  
OSCEOLA.....KENANSVILLE...335/21 AT 10/24/05...1345Z  
LAKE.....OKAHUMPKA.....350/17 AT 10/24/05...1230Z  
VOLUSIA.....PIERSON.....350/11 AT 10/24/05...1330Z  
LAKE.....UMATILLA.....080/13 AT 10/24/05...0445Z

PALM BEACH.JONATHAN DICKINSON MISSLE TRACKING ANNEX  
HIGHEST SUSTAINED..71 KNOTS 10/24/05 1310Z  
HIGHEST GUST.....99 KNOTS 10/24/05 1314Z

MARTIN....MARTIN COUNTY EOC AT HOBE SOUND  
HIGHEST GUST.....90 KNOTS 10/24/05 1658Z

MARTIN.....STUART SKYWARN SPOTTER 27.13N 80.20W  
HIGHEST GUST.....94 KNOTS 10/24/05 1419Z

MARTIN.....VESSEL ON SOUTH FORK OF ST LUCIE RIVER  
BOAT MAST ANEMOMETER 35 FEET ABOVE SEA LEVEL  
HIGHEST GUST.....116 KNOTS 10/24/05

BREVARD...F.I.T. DEPT. OF MARINE & ENVIRONMENTAL SYSTEMS  
SEAWARD END OF SEBASTIAN INLET NORTH JETTY  
HIGHEST SUSTAINED..74 KNOTS 10/24/05 1630Z  
HIGHEST GUST.....90 KNOTS 10/24/05 1630Z

BREVARD....PT CANAVERAL USCG  
HIGHEST SUSTAINED..45 KNOTS 10/24/05 1500Z  
HIGHEST GUST.....69 KNOTS 10/24/05 1505Z

B. PRESSURE DATA

ASOS.....LOWEST MEAN SEA LEVEL PRESSURE REPORTED

COUNTY.....CITY.....PRES/MB....DATE/TIME (UTC)

ST. LUCIE.....FT. PIERCE (FPR).....968.5.....10/24/05...1448Z  
INDIAN RIVER..VERO BEACH (VRB).....975.3.....10/24/05...1531Z  
BREVARD.....MELBOURNE (MLB).....987.1.....10/24/05...1520Z  
ORANGE.....ORLANDO (MCO).....994.6.....10/24/05...1437Z  
ORANGE.....ORLANDO (ORL).....997.0.....10/24/05...1434Z  
LAKE.....LEESBURG (LEE).....999.0.....10/24/05...1846Z  
SEMINOLE.....SANFORD (SFB).....995.9.....10/24/05...1820Z  
VOLUSIA.....DAYTONA BEACH (DAB)..997.3.....10/24/05...1857Z

BREVARD.....KSC SLF.....992.0.....10/24/05...1755Z  
BREVARD.....PT CANAVERAL USCG....992.0.....10/24/05...1600Z

MARINE BUOYS LOWEST PRESSURE (MB)

41009.....20 E PORT CANAVERAL.....985.2.....10/24/05...1720Z  
41010.....120 E PORT CANAVERAL.....969.5.....10/24/05...1950Z

ADDITIONAL PRESSURE OBSERVATIONS (UNOFFICIAL)

MARTIN.....VESSEL ON SOUTH FORK OR ST. LUCIE RIVER  
992.0.....10/24/05

BREVARD...F.I.T. DEPT. OF MARINE & ENVIRONMENTAL SYSTEMS  
SEAWARD END OF SEBASTIAN INLET NORTH JETTY  
973.0.....10/24/05...1630Z  
BREVARD.....PALM BAY COOP.....991.5.....10/24/05...1602Z

C. STORM TOTAL RAINFALL



ASOS/COOP RAINFALL

COUNTY.....LOCATION.....TOTAL RAINFALL (IN)

ST. LUCIE.....FT. PIERCE ARPT.....5.47  
ST. LUCIE.....FT. PIERCE COOP.....6.02  
INDIAN RIVER....VERO BEACH ARPT.....5.53  
BREVARD.....PALM BAY COOP.....5.47  
BREVARD.....MELBOURNE ARPT.....4.25  
BREVARD.....MELBOURNE NWS COOP...4.96  
BREVARD.....SCOTTSMORR COOP.....6.37  
BREVARD.....TITUSVILLE COOP.....6.90  
OSCEOLA.....KISSIMMEE COOP.....4.73  
ORANGE.....ORLANDO INTL.....5.17  
ORANGE.....ORLANDO EXECUTIVE....3.88  
ORANGE.....ORLANDO EAST COOP....4.61  
ORANGE.....PLYMOUTH COOP.....3.81  
LAKE.....CLERMONT COOP.....3.82  
LAKE.....LEESBURG ARPT.....4.88  
LAKE.....LISBON.....5.03  
SEMINOLE.....SANFORD ARPT.....3.59  
SEMINOLE.....SANFORD COOP.....3.22  
VOLUSIA.....DELAND COOP.....3.18  
VOLUSIA.....PONCE INLET COOP....3.07  
VOLUSIA.....DAYTONA BEACH ARPT...4.82 (E)

COUNTY...LOCATION.....TOTAL RAINFALL (IN)

BREVARD..KSC SHUTTLE LANDING FACILITY.....10.78  
BREVARD..KENNEDY SPACE CENTER JUST NORTH OF TTS..13.26\$  
BREVARD..PATRICK AFB.....6.95

\$ HIGHEST AMOUNT AT KSC.

ADDITIONAL RAINFALL OBSERVATIONS (UNOFFICIAL)

FLORIDA AUTOMATED WEATHER NETWORK (FAWN)

COUNTY.....CITY.....RAINFALL (IN)

ST LUCIE.....FT PIERCE.....6.09  
ORANGE.....APOPKA.....9.35  
ORANGE.....AVALON.....3.25  
OSCEOLA.....KENANSVILLE...5.64  
LAKE.....OKAHUMPKA.....5.33  
VOLUSIA.....PIERSON.....2.80  
LAKE.....UMATILLA.....4.29

ST. LUCIE.....PORT ST. LUCIE NWS STORM SPOTTER...9.03

D. STORM TIDES AND HEIGHTS

AT THIS TIME THE ONLY STORM SURGE INFO AVAILABLE WAS FROM A VESSEL OWNER WHO WITNESSED A 6 FOOT RISE INSIDE THE ST. LUCIE INLET.

E. BEACH AND INTRACOASTAL EROSION

HURRICANE WILMA PRODUCED A BRIEF PERIOD OF ONSHORE WINDS FOLLOWED BY STRONG NORTH WINDS ALONG THE COAST BETWEEN CAPE CANAVERAL AND JUPITER INLET. BEACH EROSION VALUES RANGE FROM 1 TO 3 FEET.

F. FLOODING

THE HEAVIEST RAINFALL FROM HURRICANE WILMA FELL ACROSS NORTHERN BREVARD AND NORTHEAST OSCEOLA COUNTIES. NASA GAUGES REPORTED 10 TO 13 INCHES OF RAIN. ABOUT 200 HOMES WERE FLOODED IN THE WESTERN PART OF THE CITY OF COCOA AND WEST MELBOURNE. TWELVE HOMES WERE ALSO FLOODED IN ST. CLOUD.

#### G. TORNADOES

\* TORNADO-F0 10/23/05 1725 EST: A LONG TRACK MESOCYCLONE FORMED OVER OKEECHOBEE COUNTY AND MOVED NORTHWARD PRODUCING TWO DOCUMENTED TORNADOES. THE FIRST TORNADO OCCURRED IN AND JUST NORTH NORTH OF FORT DRUM. NUMEROUS REPORTS OF PUBLIC SIGHTINGS OF A TORNADO WERE RECEIVED AND A GROUND SURVEY REVEALED TREE DAMAGE INDICATIVE OF A TORNADO TRACK CROSSING HIGHWAY 441 BETWEEN FORT DRUM AND YEEHAW JUNCTION. THE SECOND TORNADO TOUCH DOWN IS DESCRIBED BELOW.

\* TORNADO-F0 10/23/05 1805 EST: SEVERAL PUBLIC REPORTS WERE RECEIVED OF A TORNADO IN INDIAN RIVER COUNTY...10 MILES EAST OF YEEHAW JUNCTION. A GROUND SURVEY CONFIRMED TREE DAMAGE IN THIS AREA ALONG STATE ROAD 60.

TORNADO-F0 10/23/05 2030 EST: A LONG LIVED TROPICAL RAIN BAND MESOCYCLONE MOVED UP THE WESTERN BORDER OF BREVARD COUNTY AND PRODUCED A BRIEF F0 TORNADO IN NORTH ROCKLEDGE AND SOUTH COCOA. THE TORNADO DESTROYED A SMALL PORCH AT A RESTAURANT AND DAMAGED THE ROOF OF AN APARTMENT BUILDING. JUST NORTH OF THE AREA POWER TRANSFORMERS WERE DESTROYED ON US HIGHWAY 520 WEST OF THE INTRACOASTAL WATERWAY. THE TORNADO CROSSED THE INTRACOASTAL WATERWAY AND DESTROYED POWER TRANSFORMERS ON NORTH MERRITT ISLAND ABOUT A MILE NORTH OF HIGHWAY 520.

TORNADO-F1 10/24/05 0635 EST: A RAINBAND MOVING NORTHWEST TOWARD THE BREVARD COAST PRODUCED AN F1 TORNADO THAT DESTROYED A BEACH FRONT HOME ABOUT 3 MILES NORTH OF SEBASTIAN INLET. THE TORNADO REMOVED THE UPPER FLOOR OF A HOUSE THAT WAS BUILT OVER A GROUND LEVEL GARAGE. THE ONLY OCCUPANT WAS A WOMAN WHO ESCAPED SERIOUS INJURY.

TORNADO-F0 10/24/05 0640 EST: THE SAME MESOCYCLONE CONTINUED NORTHWEST AND BRIEFLY TOUCHED DOWN IN PALM BAY. WITNESSES OBSERVED IT STRIKING POWER TRANSFORMERS.

TORNADO-F1 10/24/05 0650 EST: THE THIRD TOUCHDOWN OF THIS LONG TRACK MESOCYCLONE WAS AN F1 TORNADO IN WEST MELBOURNE. THE TORNADO DESTROYED A LARGE SECTION OF AN APARTMENT ROOF, OVERTURNED A CAR AND DAMAGED TWO OTHERS. IT BLEW DOWN FENCES AND TREES.

#### H. STORM EFFECTS...DAMAGE AND IMPACTS BY COUNTY.

VOLUSIA COUNTY...THE ROOF OF ONE HOME AND A HOME UNDER CONSTRUCTION WERE SEVERELY DAMAGED IN DAYTONA BEACH SHORES. A FEW TREES AND POWER LINES WERE DOWN.

BREVARD COUNTY...MINOR WIND DAMAGE WAS REPORTED ACROSS THE COUNTY WITH TREES AND POWER LINES DOWN. THE NORTHERN PART OF THE COUNTY RECEIVED FROM 10 TO 13 INCHES OF RAIN IN SOME LOCATIONS. NUMEROUS HOMES HAD FLOOD WATER SEEPING INTO THEM FROM WEST MELBOURNE NORTH TO COCOA AND MIMS.

INDIAN RIVER COUNTY...MINOR WIND DAMAGE WAS REPORTED ACROSS THE COUNTY WITH TREES AND POWER LINES DOWN. A COMMUNICATIONS TOWER WAS BLOWN DOWN DAMAGING THE COUNTY EMERGENCY OPERATIONS CENTER.



ST. LUCIE COUNTY...THE EYEWALL OF HURRICANE WILMA PASSED JUST SOUTH OF ST. LUCIE COUNTY. THE STRONGEST WINDS OCCURRED AS THE WINDS BACKED TO THE NORTH WITH WILMA JUST OFFSHORE TO THE EAST. ESTIMATED WIND GUSTS OF 100 PLUS MPH OCCURRED ALONG THE BEACHES. INLAND WIND ESTIMATES WERE NEAR 70 TO 80 MPH. AT LEAST TWO MOBILE HOMES IN THE SPANISH LAKES COMMUNITY WERE DESTROYED WITH WIDESPREAD DAMAGE TO PORCHES, AWNINGS AND SCREEN ENCLOSURES. A MINOR LEAGUE BASEBALL FIELD WAS SEVERELY DAMAGED AS WAS THE ROOF OF THE ST. LUCIE COUNTY CIVIC CENTER.

MARTIN COUNTY...NOT AVAILABLE.

OKEECHOBEE COUNTY...THE STRONGEST WINDS IN OKEECHOBEE COUNTY WERE OUT OF THE NORTHEAST THROUGH NORTHWEST AS HURRICANE WILMA PASSED TO THE EAST. WIND SPEEDS IN THE 70S TO UPPER 80S WERE RECORDED BUT MOST WIND EQUIPMENT FAILED BEFORE RECORDING THE MAXIMUM WIND IN THE HURRICANE. MOST DAMAGE OCCURRED IN THE SOUTH PART OF THE COUNTY AND AROUND LAKE OKEECHOBEE. ABOUT 800 RESIDENCES WERE DAMAGED. OF THESE TWENTY NINE WERE DESTROYED AND 114 RECEIVED MAJOR DAMAGE. THE OKEECHOBEE CITY WATER PLANT WAS SHUT DOWN DUE TO THE QUALITY OF THE WATER IN LAKE OKEECHOBEE. THREE HANGERS WERE DESTROYED AND 2 SUSTAINED MAJOR DAMAGE AT OKEECHOBEE AIRPORT. TWO AIRPLANES WERE OVERTURNED. FIFTY COVERED BOAT SLIPS WERE DESTROYED AND 12 BOATS WERE DAMAGED OR SUNK.

LAKE COUNTY...NONE.

ORANGE COUNTY...NONE.

SEMINOLE COUNTY...NONE.

OSCEOLA COUNTY....HEAVY RAINS FLOODED 12 HOMES IN ST. CLOUD. ONE MOBILE HOME WAS DESTROYED IN KISSIMMEE. NUMEROUS HOMES AND MOBILE HOMES SUFFERED MINOR WIND DAMAGE TO AWNINGS AND PORCHES.

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DECKER/CARTWRIGHT/SPRATT