PUBLIC INFORMATION STATEMENT

NATIONAL WEATHER SERVICE ABERDEEN SD

230 PM CDT THU MAY 27 2010

...FINAL DAMAGE SURVEY RESULTS FROM THE 22 MAY 2010 TORNADO EVENT...

RESULTS FROM NWS STORM SURVEY DAMAGE TEAM ALONG WITH EYEWITNESS AND

MEDIA REPORTS INDICATE THAT A TOTAL OF SIX TORNADO TOUCHDOWNS

OCCURRED ON 22 MAY 2010.

...SOUTH CENTRAL WALWORTH COUNTY...

MAX RATING: EF-0

MAX WIDTH: UNKNOWN

PATH LENGTH: 0.1 MILES /ESTIMATED/

BEGIN POINT: 3 S OF AKASKA

END POINT: 3 S OF AKASKA

THE FIRST CONFIRMED TOUCHDOWN APPEARS TO HAVE BEEN ROUGHLY 3

MILES SOUTH OF AKASKA. THIS WAS A BRIEF TOUCHDOWN AND NO DAMAGE

WAS REPORTED. THIS IS CONSISTENT WITH AN EF0 TORNADO RATING WITH

WIND SPEEDS FROM 65 TO 85 MPH.

...EASTERN WALWORTH COUNTY...

MAX RATING: EF-1

MAX WIDTH: UNKNOWN

PATH LENGTH: 0.1 MILE

BEGIN POINT: 7 SW OF BOWDLE

END POINT: 7 SW OF BOWDLE

THE NEXT TOUCHDOWN TOOK PLACE ROUGHLY 2 MILES SOUTH OF HIGHWAY 12 ON

STATE HIGHWAY 47...WHERE 6 WOODEN POWER POLES WERE KNOCKED DOWN. THE

TORNADO THEN LIFTED SHORTLY THEREAFTER. THIS IS CONSISTENT WITH AN

EF1 TORNADO RATING WITH WIND SPEEDS FROM 86 TO 110 MPH.

...EXTREME EASTERN WALWORTH COUNTY THROUGH WESTERN EDMUNDS COUNTY...

MAX RATING: EF-4

MAX WIDTH: 3/4 MILE /ESTIMATED/

PATH LENGTH: 11 MILES

BEGIN POINT: 4 W OF BOWDLE

END POINT: 1.5 N OF BOWDLE

THE TORNADO RE-FORMED ABOUT 4 MILES WEST OF BOWDLE ON HIGHWAY 12.

THE TORNADO CAME DOWN ON A FARMSTEAD ON THE NORTHSIDE OF THE

ROAD...OR FORMED IMMEDIATELY TO THE SOUTH OF THE FARMSTEAD AND

TRACKED THROUGH THE YARD. SEVERAL OUTBUILDINGS WERE DAMAGED...WITH

THE RESIDENCE SUSTAINING SIDING AND ROOF DAMAGE. A STOCK

TRAILER WAS THROWN ABOUT 75 YARDS FROM ITS INITIAL POINT. TREE

DAMAGE WAS SUSTAINED ON THE WEST SIDE OF THE PROPERTY...WITH FALLEN

TREES LEANING TO THE WEST. ON THE EAST SIDE OF THE PROPERTY DEBRIS

WAS SCATTERED TO THE NORTHEAST. THE TORNADO CONTINUED MOVING

NORTHEAST CROSSING INTO EDMUNDS COUNTY AT THE INTERSECTION OF 133RD

STREET AND 323RD AVE. THE DAMAGE SUSTAINED AT THE FARMSTEAD IS

CONSISTENT WITH AN EF2 TORNADO RATING WITH WIND SPEEDS FROM 111 TO

135 MPH.

THE TORNADO CONTINUED TO TRACK NORTHEAST THROUGH WESTERN EDMUNDS

COUNTY...STRIKING A FARMSTEAD NEAR THE INTERSECTION OF 132ND STREET

AND 323RD AVE. SEVERAL LARGE COTTONWOOD TREES WERE UPROOTED ALONG

WITH DAMAGE TO SEVERAL TRAILERS. 3 GRAIN BINS WERE DESTROYED WITH

DEBRIS LOCATED SEVERAL HUNDRED YARDS TO THE NORTHEAST. THE RESIDENCE

SUFFERED SOME SHINGLE DAMAGE AND ANTENNA DAMAGE. THE MAIN TORNADO

TRACK WAS SOUTH OF THIS LOCATION...AND DAMAGE AT THIS LOCATION IS

CONSISTENT WITH AN EF1 TORNADO RATING WITH WIND SPEEDS FROM 86 TO

110 MPH.

THE TORNADO TRACKED TO A LOCATION ABOUT 1.5 MILES NORTHWEST OF

BOWDLE. THE RESIDENCE IS LOCATED JUST SOUTH OF THE INTERSECTION

OF 132ND STREET AND 325TH AVENUE. SEVERAL OUTBUILDINGS AT THIS

LOCATION WERE DAMAGED OR DESTROYED...WITH WIDESPREAD TREE DAMAGE

ON THE PROPERTY. THE MAIN HOUSE AT THIS LOCATION SUFFERED NO

DAMAGE. SEVERAL GRAIN CARS WERE ROLLED ABOUT 100 YARDS INTO THE

TREES BEHIND THE HOUSE. DAMAGE AT THIS LOCATION IS CONSISTENT WITH

AN EF3 TORNADO RATING WITH WIND SPEEDS FROM 136 TO 165 MPH.

THE TORNADO CONTINUED TO TRACK NORTHEAST TO A LOCATION ABOUT 1.5

MILES NORTH OF BOWDLE ON 132ND STREET. THE MAIN LIVING RESIDENCE

SUFFERED MAJOR DAMAGE TO WALLS WITH PART OF THE ROOF STRUCTURE

REMOVED. WIDESPREAD TREE DAMAGE WAS SUSTAINED...WITH MANY OF THE

TREES COMPLETELY DEBARKED WITH ONLY STUMPS OF THE LARGEST BRANCHES

REMAINING. TWO LARGE GARAGES WERE COMPLETELY DESTROYED WITH THE

CONCRETE SLAB WIPED CLEAN. THE VEHICLES IN ONE GARAGE WERE

ROLLED/TOSSED FROM 25 TO 100 YARDS AWAY. IT IS ESTIMATED THAT ONE

VEHICLE FLEW THROUGH THE AIR 75 TO 100 YARDS RESTING IN THE TREE

SHELTER BELT TO THE NORTH OF THE RESIDENCE. SEVERAL OTHER

OUTBUILDINGS WERE COMPLETELY DESTROYED. THE DAMAGE AT THIS LOCATION

IS CONSISTENT WITH AN EF4 TORNADO RATING WITH WIND SPEEDS FROM 166

TO 200 MPH.

LOCATED JUST NORTH OF THIS RESIDENCE...SEVERAL METAL POWER

TRANSMISSION TOWERS WERE TOPPLED. ONE TOWER WAS SHEARED OFF FROM

THE CONCRETE FOOTINGS AND TRAVELED AN ESTIMATED 400 YARDS AWAY.

THERE WERE 6 TO 8 OF THESE TOWERS TOPPLED. GROUND SCOURING WAS

VISIBLE ALONG THE PATH OF THESE TOWERS. THE DAMAGE TO THE TOWERS

IS CONSISTENT WITH AN EF4 TORNADO RATING WITH WIND SPEEDS FROM

166 TO 200 MPH.

THE TORNADO CONTINUED TO TRACK IN AN EASTERLY

DIRECTION...CROSSING OVER STATE HIGHWAY 47 JUST NORTH OF THE

INTERSECTION WITH 132ND STREET. A STATE RADIO TOWER WAS TOPPLED

AT THIS LOCATION...AND IS CONSISTENT WITH AN EF2 TORNADO RATING

WITH WIND SPEEDS FROM 111 TO 135 MPH. THE TORNADO LIFTED SHORTLY

THEREAFTER.

...CENTRAL EDMUNDS COUNTY...

MAX RATING: EF-0

MAX WIDTH: UNKNOWN

PATH LENGTH: 0.2 MILES /ESTIMATED/

BEGIN POINT: 6 WNW OF ROSCOE

END POINT: 6 WNW OF ROSCOE

ANOTHER BRIEF TORNADO TOUCHDOWN OCCURRED 6 MILES WNW OF ROSCOE,

OR ONE-HALF MILE NORTH OF THE INTERSECTION OF HIGHWAY 12 AND

STATE HIGHWAY 253. THERE WAS NO DAMAGE REPORTED WITH THIS BRIEF

TOUCHDOWN...AND IS CONSISTENT WITH AN EF0 TORNADO RATING WITH WIND

SPEEDS FROM 65 TO 85 MPH.

...NORTHEASTERN EDMUNDS INTO SOUTHEASTERN MCPHERSON COUNTY...

MAX RATING: EF-2

MAX WIDTH: 200 YARDS

PATH LENGTH: APPROX 17.0 MILES

BEGIN POINT: 8 NNW OF IPSWICH

END POINT: 2 NE OF WETONKA

THE INITIAL TORNADO TOUCHDOWN OCCURRED IN NORTHEASTERN EDMUNDS

COUNTY NEAR THE INTERSECTION OF COUNTY ROADS 128TH STREET AND

360TH AVE WHERE SECTIONS OF ROOF WERE REMOVED FROM A BARN. THE

TORNADO THEN TRACKED NORTHEASTWARD THROUGH PRIMARILY CROPLAND AND

PASTURE LAND TO NEAR DEERFIELD COLONY. SPORADIC TREE DAMAGE WAS

OBSERVED ALONG THE TORNADO PATH AND SEVERAL WOODEN POWER POLES WERE

COMPLETELY SHEARED OFF. A FARMSTEAD WAS STRUCK ALONG STATE HIGHWAY

45 JUST OVER THE MCPHERSON COUNTY LINE WHERE A CALVING SHED WAS

COMPLETELY DESTROYED WITH LARGE SECTIONS OF THE ROOF BLOWN OVER 100

YARDS. DAMAGE ALONG THIS STRETCH OF THE TORNADO TRACK IS CONSISTENT

WITH AN EF2 TORNADO RATING WITH WIND SPEEDS FROM 111 TO 120 MPH.

THE TORNADO CONTINUED MOVING THROUGH SOUTHEASTERN MCPHERSON COUNTY

NEAR THE INTERSECTION OF COUNTY ROADS 122ND STREET AND 366TH AVE. A

BARN SUSTAINED A MODERATE DAMAGE WITH ONE WALL COLLAPSED. MULTIPLE

SOFTWOOD AND HARDWOOD TREES WERE UPROOTED AND SEVERAL POWER POLES

WERE COMPLETELY SNAPPED NEAR THE BASE. THE TORNADO CONTINUED

EAST/NORTHEASTWARD THROUGH SOUTHEASTERN MCPHERSON COUNTY TEARING A

ROOF OFF A TURKEY BARN AT LONG LAKE COLONY AND CAUSING SPORADIC TREE

AND POWER POLE DAMAGE. DAMAGE HERE WAS CONSISTENT WITH WIND SPEEDS

FROM 111 TO 120 MPH. THE TORNADO CONTINUED NORTHEAST INTO WETONKA

WHERE SEVERAL SINGLE FAMILY HOMES SUSTAINED MINOR ROOF DAMAGE.

SEVERAL UPROOTED TREES WERE ALSO NOTED. THE TORNADO APPEARED TO

DISSIPATE ABOUT 5 MILES TO THE NORTHEAST OF WETONKA IN FAR WESTERN

BROWN COUNTY.

IN EARLIER STATEMENTS THIS TORNADO WAS SEPARATED INTO TWO SEGMENTS.

AFTER FURTHER ANALYSIS IT WAS DEEMED THAT THIS TORNADO WAS

CONTINUOUS ALONG A MAJORITY OF THE PATH. HOWEVER DUE TO THE

SPARSENESS OF DAMAGE INDICATORS...SHORT LIVED OR INTERMITTENT BREAKS

IN THE TORNADO PATH WERE POSSIBLE.

...NORTHERN BROWN COUNTY...

MAX RATING: EF-2

MAX WIDTH: 100 YARDS

PATH LENGTH: APPROX 1.0 MILE

BEGIN POINT: 8 WSW OF HECLA

END POINT: 7 WSW OF HECLA

EYEWITNESS ACCOUNTS INDICATE THAT A TORNADO TOUCHED DOWN

APPROXIMATELY 8 MILES WEST AND 1 MILE SOUTH OF HECLA NEAR THE

INTERSECTION OF 105TH STREET AND 396TH AVE. THIS TORNADO PRODUCED

DAMAGE TO ONE FARMSTEAD INCLUDING TEARING A ROOF OFF AN OUTBUILDING

AND THROWING GRAIN BINS 100 YARDS OR MORE. WIDESPREAD TREE DAMAGE

WAS ALSO NOTED. THE TORNADO CONTINUED NORTHEAST FOR ABOUT 1 MILE

DAMAGING ANOTHER OUTBUILDING AND DESTROYING A EMPTY GRAIN BIN BEFORE

LIFTING. MAXIMUM WIND SPEEDS ARE CONSISTENT AN EF2 TORNADO RATING

WITH WIND SPEEDS FROM 112 TO 120 MPH.