X WASH 113 OREG

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DE WASH 113 1341600
R 141700Z MAY 81
FM DES WASH
TO FEMA REG TEN
REG TEN STATE CD DIRECTORS
NATIONAL GUARD BUREAU
SALEM. OR

Regarding the real volcano

MAY 1 5 1981

Governor Ativeh

UNCLAS 0730 PDT MAY 14. 1981 MT ST HELENS PLUME TRAJECTORY FORECAST WIND TRAJECTORIES GO TO THE NORTH THROUGH EAST. TRAJECTORIES ARE EAST OF A LINE FROM THE MOUNTAIN TO ALONG THE CASCADE MOUNTAINS AND NORTH OF A LINE FROM THE MOUNTAIN TO PENDELTON. WINDS ALOFT NEAR MT ST HELENS AT 7 AM PDT ELEVATION FEET WPND FROM DEG SPEED KT PLUME GOES TO 6000 240 10 NORTHEAST 270 15 12000 EAST 20 230 18000 EAST NORTHEAST 24000 210 35 NORTH NORTHEAST 30000 60 NORTH NORTHEAST 200 EAST NORTHEAST 230 30 40000 50000 15 260 EAST

US GEOLOGICAL SURVEY AND UNIVERSITY OF WASHINGTON VOLCANIC AND SEISMIC ACTIVITY AT MT ST HELENS REPORT AT 0800 MAY 14, 1981 WEATHER ALLOWED FIELD WORK AT MT ST HELENS UNTIL LATE AFTERNOON ON WEDNESDAY, MAY 14, 1981.

FIELD CREWS CONTINUED GEOLOGIC, HYDROLOGIC AND DEFORMATION STUDIES.
MAINTENANCE AND INSTALLATION OF SEISMIC AND COMMUNICATIONS
SYSTEMS WERE PERFORMED. SEISMIC ACTIVITY AT MT ST HELENS HAS
REMAINED AT A RELATIVELY LOW LEVEL, WITH OCCASIONAL SEISMIC BURSTS
DURING THE PAST 24HOURS. A SLIGHT INCREASE IN SEISMIC ACTIVITY
LOCAL TO THE MOUNTAIN WAS RECORDED FOR TWELVE HOURS STARTING AT
APPROXIMATELY 0500 AM PDT.

OBSERVED ACTIVITY DURING DAYLIGHT HOURS INCLUDED SOME INCREASE IN PLUME HEIGHT STARTING APPROXIMATELY 0500 AM PDT. ANOTHER INCREASE IN PLUME HEIGHT WAS REPORTED AT APPROXIMATELY 1430 PDT. THE INCREASED EMISSIONS, PRIMARILY GAS AND STEAM CONDENSATE, CONTAINED SOME MINOR AMOUNTS OF FINE ASH. THE PLUME WAS SUSTAINED CONTINUALLY THROUGHOUT THE DAY, AT TIMES REACHING ALTITUDES OF 11,000 TO 12,000 FEET.

HYDROLOGIC CONDITIONS
STREAMFLOW OF THE TOUTLE RIVER IS RECEDING AS IS NORMAL FOR THE MIDSPRING SEASON; HOWEVER, FLOW IS SOMEWHAT LOWER THAN NORMAL FOR MAY.
GEOLOGICAL SURVEY HYDROGRAPHERS MEASURED A STREAMFLOW OF 1450 CFS
ON MAY 12 AT THE MOUTH OF THE TOUTLE RIVER. THE 53-YEAR AVERAGE FLOW
FOR MAY IS 2200 CFS.
SIGNED/HUGH H. FOWLER, DIRECTOR
BT