



Executive Department

EMERGENCY SERVICES DIVISION

43 CAPITOL BUILDING, SALEM, OREGON 97310 PHONE 378-4124

MAY 19 1980

Governor Atiyeh

MT. ST. HELENS REPORT

MAY 19, 1980

THE EMERGENCY SERVICES DIVISION STAFF IS ON STANDY-BY AS ARE THE OTHER MAJOR STATE AGENCIES. STAFF HAS BEEN BRIEFED AS TO SITUATION.

IN WATCHING THE STATE OF WASHINGTON ACTIVITY THE MAJOR AREAS OF CONCERN WOULD BE TRAFFIC CONTROL, POSSIBLE WATER PROBLEMS, PEOPLE WITH RESPIRATORY PROBLEMS AND OBVIOUSLY, POLLUTION.

REPORTS TAKEN FROM AGENCIES ARE AS FOLLOWS:

OREGON STATE POLICE - SUPERINTENDENT WILLIAMS:

PERSONNEL FROM ASTORIA TO BAKER HAVE BEEN INSTRUCTED TO OBTAIN SURGICAL TYPE MASKS, ALSO TO MAKE SURE THEY ARE EQUIPPED WITH GAS MASKS - AT PRESENT THEY ARE INTELLIGENCE GATHERING AND WORKING CLOSELY WITH WASHINGTON STATE PATROL. THEY HAVE RELIEVED THE WASHINGTON STATE PATROL OF TRAFFIC CONTROL ON THE INTERSTATE BRIDGE AT VANCOUVER. THEY HAVE ALERTED ALL STATIONS TO REPORT ANY FINDINGS OF FALLOUT.

STATE HEALTH DIVISION - DR. BADER:

THEIR TWO CONCERNS ARE AIR AND WATER. THEY WILL FOLLOW NORMAL AIR QUALITY STANDARDS AND WARNINGS. THEY STATE WATER IS NOT TOO GREAT A PROBLEM AS WATER DISTRICTS CAN ADD CHEMICALS TO SUPPLIES AND REDUCE ACIDITY. REPORTS FROM EASTERN WASHINGTON DO NOT SHOW AN INCREASE IN RESPIRATORY PROBLEMS REPORTED TO HOSPITALS. PEOPLE WILL BE ENCOURAGED TO STAY INDOORS AND PEOPLE WITH BREATHING PROBLEMS WILL BE ASKED TO EVACUATE.

HIGHWAY DIVISION - L.W. RULIEN:

THEY ARE IN CONTACT WITH WASHINGTON HIGHWAY DEPARTMENT. AT THE PRESENT, THEY INTEND TO USE STATE OF WASHINGTON'S TECHNIQUES IN REMOVAL. THEY ARE PREPARED TO CLOSE AND/OR SIGN ROADS AND CLEAR THE ASH AS SOON AS POSSIBLE. THEY ARE WORKING ON A LIST OF "DO'S" AND "DON'TS" BASED ON ACTIONS IN YAKIMA.

DEQ - DR. WARREN WESTGARTH:

WILL MONITOR FOR AIR QUALITY AND ISSUE ADVISORIES AS NECESSARY, MONITOR STREAMS AND WATER SUPPLIES ALONG WITH EPA, MONITOR SEWAGE TREATMENT PLANTS AND RECOMMEND POSSIBLE SHUTDOWN, ISSUE INFORMATION ON PROTECTION OF LIVESTOCK AND FOOD SUPPLIES AND WORK TO PROTECT ALL WATER SUPPLIES.

NATIONAL WEATHER SERVICE - JIM WAKEFIELD - 3:30 P.M.:

THE VOLCANIC ACTIVITY HAS SUBSIDED TODAY AND WHILE SMOKE IS VISIBLE FROM THE PORTLAND AREA, THE ASH FROM THE MOUNTAIN IS NOT HEAVY ENOUGH TO BE DETECTED ON PORTLAND RADAR. YESTERDAY THE PORTLAND RADAR SHOWED PLUMES TO 50,000 FEET AT 9:00 A.M. AND TO 63,000 FEET JUST BEFORE 5:00 P.M. (5-18) A LIGHT ASH WHICH HAS BEEN DESCRIBED TO ME AS MUCH LIKE FOG, HAS FALLEN IN THE AREA NEAR YAKIMA TODAY BUT ONLY ABOUT HALF-INCH IS REPORTED AT THE YAKIMA AIRPORT.

SURFACE WINDS OF 10-15 MPH ARE STIRRING UP THE ASH IN MANY AREAS OF EASTERN WASHINGTON HOWEVER, THIS ASH IS NOT COMING DIRECTLY FROM THE MOUNTAIN.

THE WINDS ALOFT FROM 10-18 THOUSAND FEET ARE GENERALLY WEST TO SOUTHWEST AT PRESENT. WINDS AT HIGHER ELEVATIONS ARE WESTERLY. WINDS AT ALL UPPER LEVELS WILL BECOME A LITTLE MORE SOUTHWEST BY TUESDAY. THIS MEANS THAT ANY FALLOUT FROM MOUNT ST. HELENS WILL NOT REACH AREAS IN OREGON ON TUESDAY AND PROBABLY NOT THROUGH THE REMAINDER OF THE WEEK. GENERALY WEATHER PATTERN FOR OREGON IS FOR SOME INCREASE IN CLOUDINESS WITH A THREAT OF RAIN ON THE COAST AND NORTH INTERIOR BY WEDNESDAY.

STATE OF WASHINGTON EMERGENCY SERVICES - 3:15 P.M.:

THEY ARE FINDING THAT THE FURTHER AWAY FROM THE MOUNTAIN THE MORE ACIDIC THE ASH. THE MOUNTAIN IS GENERATING WHAT THEY CALL " PUFFS " CARRYING ADDITIONAL DEBRIS INTO THE ATMOSPHERE. IN ADDITION TO THE NEW VENT NEXT TO HIGHWAY #504, THERE IS ANOTHER NEW VENT APPROXIMATELY 10 MILES N.E. OF THE MOUNTAIN. (NORTH OF SPIRIT LAKE). IT IS TRUE THAT SPIRIT LAKE HAS ALL BUT DISAPPEARED - FILLED WITH GARBAGE AND DEBRIS. THERE ARE NO DOLLAR FIGURES AVAILABLE YET, HOWEVER THEY ARE BEGINNING TO GET AN IDEA OF THE DEVASTATION IN EASTERN WASHINGTON. HAVE FOUND IT IS NOT A GOOD IDEA TO WASH THE ASH DOWN WITH WATER AS IT BECOMES A THICK AND GOOEY MESS.

OFFICIAL REQUEST RECEIVED FROM THE STATE OF WASHINGTON EMERGENCY SERVICES, FOR TWO OREGON EMERGENCY SERVICES STAFF TO ASSIST THEM AT THE STATE EOC IN OLYMPIA.

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APB JREGON
OR EMERGENCY SERVICE

MAR 16 1982

Governor Atiyeh

MT. ST. HELENS ADVISORY

ACCELERATING RATES OF GROUND DEFORMATION IN THE CRATER OF MT. ST. HELENS SUGGESTS THAT AN ERUPTION MOST LIKELY OF THE DOME BUILDING TYPE WILL PROBABLY BEGIN IN ONE TO FIVE DAYS. DEEP EARTH QUAKES HAVE ALMOST CEASED AND SHALLOW EARTHQUAKES CONTINUE AT A MODERATE RATE. A FURTHER INCREASE IN SHALLOW SEISMICITY IS LIKELY BEFORE THE ERUPTION STARTS.

THE RESTRICTED ZONE AROUND MT. ST. HELENS IS OPEN.

INFORMATION FROM U.S. GEOLOGICAL SURVEY, VANCOUVER, WASHINGTON AND UNIVERSITY OF WASHINGTON GEOPHYSICS, SEATTLE, WASHINGTON

ABBY KERSHAW
OREGON EMERGENCY MANAGEMENT
SALEM, OREGON GJS

1258 Hrs.

June 12, 1981

JUN 12 1981

Governor Atiyeh

Mt. St. Helens Extended Outlook Advisory.

Issued at 1:00 P.M., 6-12-81. USGS/U of W.

Rates of ground deformation in the crater of Mt. St. Helens have increased during the past three weeks.

Sulfur Dioxide gas emissions have also increased over the same period of time.

Similar changes have occurred in advance of previous dome building eruptions.

If current trends continue; an eruption, probably of the dome building type, will begin within the next week or two.

In the meantime: Highly visible steam and ash bursts, similar to those of the past weeks, are likely to continue.

Seismicity remains low. Based on previous experience, seismicity can be expected to increase at least a day or two before a new eruption.

This Advisory will be followed by more specific advisories, if and when seismicity shows a clear increase.

AM.CCD.APB.

.....MT ST HELENS INFORMATION BULLETON.....

PLEASE PASS TO EMERGENCY SERVICES DIRECTORS/COORDINATORS

WASHINGTON STATE EMERGENCY SERVICES HAS ADVISED THIS AGENCY THAT THE USGS HAS RECOMMENDED EVACUATION OF THE RED ZONE AROUND MT ST HELENS DUE TO HARMONIC TREMORS UNDER THE MOUNTAIN.

IN THE EVENT OF AN ERUPTION, ASH FALL PLUME TRAJECTORY IS GENERALLY TO THE EAST AT HIGH ELEVATIONS. WINDS AT LOW ELEVATIONS (6,000 TO 12,000 FEET) ARE TO THE SOUTH AT 5 TO 10 MILES PER HOUR.

SIGNED: HARVEY L. LATHAM/ADMIN, OR ESD: JH
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APB OREGON

NNNN

NATIONAL WEATHER SERVICE FORECAST OFFICE PORTLAND OR
555 PM PDT TUE JUL 22 1980

MT ST HELENS RADAR UPDATE...

WEATHER SERVICE RADAR AT PORTLAND AS OF 555 PM PDT NOTES ONLY
STEAM EMITTING FROM MT ST HELENS WITH TOPS UNDER 12000 FEET.
THE ORIGINAL PLUMING TO 45000 AT ABOUT 520 PM HAS MOVED TOWARD
THE NORTHEAST.

FURTHER UPDATES WILL BE ISSUED AS CONDITIONS WARRANT.

END

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TO FEMA REG TEN

REG TEN STATE CD DIRECTORS

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UNCLAS

US GEOLOGICAL SURVEY AND UNIVERSITY OF WASHINGTON
VANCOUVER AND SEATTLE, WASHINGTON

VOLCANIC AND SEISMIC ACTIVITY AT MT ST HELENS
REPORT AT 0900, WEDNESDAY MAY 21, 1980

ERUPTIVE AND SEISMIC ACTIVITY HAVE CONTINUED TO DECLINE AT MOUNT ST. HELENS, FOLLOWING THE TREND REPORTED YESTERDAY MORNING. ERUPTIVE ACTIVITY AT THE CRATER VENT IS NOW SPORADIC, AND MUCH OF THE EMISSION APPEARS TO BE CONDENSED STEAM. IT APPEARS THAT THE DEBRIS FLOW THAT RUSHED DOWN THE DRAINAGE OF THE NORTH TOUTLE RIVER ON SUNDAY MORNING, IMMEDIATELY AFTER THE INITIAL NORTHWARD-DIRECTED BLAST, WAS RELATIVELY COOL. IT PROBABLY REPRESENTS THE REMNANT OF THE VOLCANO'S NORTH FLANK THAT DISAPPEARED AFTER THE BLAST; THE SPORADIC WARM AREAS IN IT PROBABLY REPRESENT WARMER PARTS OF THE VOLCANO'S INTERIOR BEFORE ITS DISRUPTION. THIS DEBRIS-FLOW DEPOSIT ALSO CONTAINS BLOCKS OF ICE FROM THE NORTH-FLANK GLACIERS THAT DISAPPEARED WITH THAT PART OF THE VOLCANO; SOME OF THE BLOCKS HAVE MELTED IN PLACE AND LEAVE HOLES IN THE BUMMOCKY SURFACT OF THE DEBRIS-FLOW.

TEMPERATURES WERE MEASURED IN SECONDARY PYROCLASTIC FLOWS THAT FORMED FROM THE ASH OF THE INITIAL BLAST DEPOSIT AND ARE NOW AS HIGH AS 147 DEGREES C - AT DEPTHS OF ABOUT 2 FFET. THE LARGE FUMARoles AND SECONDARY-EXPLOSIONS THAT HAVE DISRUPTED THE DEBRIS FLOW AND YOUNGER PUMICEOUS PYROCLASTIC FLOWS IN THE UPPER DRAINAGE OF THE NORTH TOUTLE RIVER MAY HAVE THEIR HEAT SOURCE IN THE HOT ASH OF THE INITIAL BLAST DEPOSIT.

SEISMICITY HAS DECLINED DRAMATICALLY AND IS LOWER THAN AT ANY TIME SINCE MARCH 22. THERE HAVE BEEN NO EARTHQUAKES OF MAGNITUDES GREATER THAN 3 SINCE 0722 ON MONDAY MORNING. ALL OF THE EARTHQUAKES OF MAGNITUDES GREATER THAN 1.5 ARE NOW OCCURRING FROM DEPTHS GREATER THAN 10 KM.

THE PRINCIPAL IMMEDIATE HAZARD POTENTIAL REMAINS THE POSSIBLE OVERFLOW OF SPIRIT LAKE, WHICH COULD CAUSE FURTHER MUDFLOWS AND FLOODING THE VALLEY OF THE NORTH TOUTLE. THE BEST DATA AVAILABLE FROM OBSERVATIONS AND FROM RADAR IMAGERY, ALTHOUGH THEY ARE INCOMPLETE, DO NOT SUGGEST THAT THE LAKE LEVEL IS RISING RAPIDLY.
SIGNED/ED CHOW, DIRECTOR
BT



STATE OF OREGON

INTEROFFICE MEMO

MAY 21 1980

Governor Atiyeh

TO: Glenna Hayden

DATE: May 21, 1980

FROM: Michaela McIntosh

SUBJECT: Presidential visit.

Col. Connell, ^{Corp. Higgins.} called concerning the President's visit; best information he has is that they will arrive at about 6:00 p.m. this evening. Travelling with the President will be the Secretary of the Army, General Alexander and the Deputy Director of the Corps of Engineers for Civil Works, General Heiberg. — SEC. BERGLUND/ANDRUS

Purpose of the visit is to review the emergency situation in the Columbia River. The 304 Aviation squadron is handling the logistics of the visit and the President will be staying in the Marriott in Portland.

Please contact the Colonel to confirm whether the Governor plans to meet with him. His FTS number is 423-6000 and regular is 221-6000.

He asked who was coordinating this on our end and I just said that you were responsible for all the Governor's scheduling and that you would call him.

CYNTHIA WICKS-SMITH (202) 456-2335

Work Agency - F.E.M.A. (Bob Stevens)





STATE OF OREGON

INTEROFFICE MEMO

TO: Governor

FROM: Col. Connell,
Corp. of Engineers 221-6000

SUBJECT: Columbia River

DATE: Wed., May 21

MAY 21 1980
Governor Atiyeh

A sum of \$15 million in emergency monies has been requested to provide for dredging in the Columbia River.

There was one dredge working yesterday, another starting this afternoon and will start tomorrow (Harding from Calif.) Port of Portland dredge (Oregon) will be moving up and working within a matter of days. Private enterprise will be given opportunity for competitive bids for three or more large pipe line dredges (24" or greater). It is anticipated they will be on duty within a week. They are located in the Seattle area and perhaps California.

Several phases are planned. The first one is to have the channel opened 25X200 wide by week from tomorrow - May 29. This will allow lightly loaded or empty vessels to pass with assistance from Coast Guard or pilots.

Within two weeks will widen channel to 300 ft wide and 30 ft deep. In six, eight or ten weeks channel should be back to normal operation but not have full width.

Looking at dredging in Cowlitz as a secondary phase which will be done by private and other funds (not out of the \$15 mil.) In another day they will know exactly what is in the river.

The river residue will be placed on the banks - still considered inside river- under allowances of federal laws in both states (WA on Cottonwood Island) Many locations are needed for spoil areas.

At this time they do not envision bringing dredges from the east coast and canal -- would take too much time and cause too much traffic on the river.

gh



Contains
Recycled
Materials

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Regarding the
real volcano

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TO FEMA REG TEN
REG TEN STATE CD DIRECTORS
NATIONAL GUARD BUREAU
SALEM, OR

MAY 15 1981

Governor Atiyeh

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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
12000	270	15	EAST
18000	230	20	EAST NORTHEAST
24000	210	35	NORTH NORTHEAST
30000	200	60	NORTH NORTHEAST
40000	230	30	EAST NORTHEAST
50000	260	15	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 MID-
SPRING 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

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FM DES WASH
TO FEMA REG TEN
REG TEN STATE CD DIRECTORS
NATIONAL GUARD BUREAU
SALEM, OREGON

BT

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MT ST HELENS PLUME TRAJECTORY FORECAST

FEBRUARY 9, 1981

WIND TRAJECTORIES ARE GENERALLY TO THE SOUTHEAST.

TRAJECTORIES ARE EAST OF A LINE FROM THE MOUNTAIN TO PORTLAND AND WEST OF A LINE FROM THE MOUNTAIN TO GOLDENDALE.

BASED ON 4 AM PST WINDS

ELEVATION FEET	WIND FROM DEG	SPEED KT	PLUME GOES TO
6000	300	20	EAST SOUTHEAST
12000	320	25	SOUTHEAST
18000	320	37	SOUTHEAST
24000	320	45	SOUTHEAST
30000	310	45	SOUTHEAST
40000	310	55	SOUTHEAST
50000	310	54	SOUTHEAST

CHANGE AND IS SUBJECT AND TMD NAVENSISE HELENS WASHINGTON

SEISMIC ACTIVITY HAS REMAINED LOW AT MT ST HELENS OVER THE WEEKEND. FIELD MEASUREMENTS MADE ON FRIDAY, FEBRUARY 6, AND SATURDAY, FEBRUARY 7, INDICATE THAT THE NEW LOBE DID NOT EXHIBIT SIGNIFICANT VERTICAL GROWTH OVER THAT TIME PERIOD. HOWEVER, SLOW LATERAL SPREADING WAS OBSERVED TO OCCUR. APPROXIMATE ELEVATION AT THE TOP OF THE FEBRUARY LOBE IS 2037 METERS. ADDITIONAL FIELD WORK IS NEEDED TO DETERMINE IF THE DOME WILL STABILIZE AT THIS STAGE OF DEVELOPMENT.

ADVISORY FROM SATURDAY:

THE FOLLOWING IS A COPY OF THE MT ST HELENS VOLCANO ADVISORY FROM USGS VANCOUVER AND UNIVERSITY OF WASHINGTON SEATTLE.

THESE NOTICES WERE PREPARED BY USGS WITH THE COLLABORATION OF U OF W GEOPHYSICS PROGRAM, FEBRUARY 7, 1981, AT 1145 HOURS PST AND DISTRIBUTED TO US FOREST SERVICE (GIFFORD PINCHOT NATIONAL FOREST, VANCOUVER), AND THE PIO'S OF USGS AND USFS, VANCOUVER.

"VOLCANO ADVISORY ISSUED 2/7/81, 1145 AM:

SEISMIC ACTIVITY AT MT ST HELENS HAS REMAINED AT A LOW LEVEL FOR THE PAST 36 HOURS. FIELD OBSERVATIONS AND MEASUREMENTS INDICATE THAT THE RATE OF GROWTH OF THE DOME HAS DECREASED SIGNIFICANTLY. IF THIS ERUPTION CONTINUES TO FOLLOW THE PATTERN OF THE DECEMBER-JANUARY ERUPTION, SCIENTISTS OF THE USGS AND U OF W FEEL THAT THE POTENTIAL FOR A LARGE EXPLOSIVE ERUPTION IN THE IMMEDIATE

FUTURE HAS DECREASED. HOWEVER, WE CAUTION AS BEFORE THAT IF (REPEAT IF) AN EXPLOSIVE ERUPTION WERE ABOUT TO OCCUR, WE MIGHT NOT SEE ADEQUATE PRECURSORS. LOCAL HAZARDS ASSOCIATED WITH THE GROWING DOME REMAIN HIGH. WE WILL ISSUE A FURTHER ADVISORY WHEN DOME GROWTH HAS STOPPED."

SIGNED/HUGH H. FOWLER, DIRECTOR

BT

ZCZC
ADMN9 RWRE 051840
NATIONAL WEATHER SERVICE FORECAST OFFICE
PORTLAND OREGON
10.40 AM PST THU FEB 5 1981

MT ST HELENS RADAR UPDATE.....

THE NATIONAL WEATHER SERVICE RADAR AT PORTLAND IS NOT
DETECTING ANY VOLCANIC ACTIVITY FROM MT ST HELENS AT
THIS TIME.

AT 10.30 AM PST THIS MORNING...FOREST SERVICE AIRCRAFT
IN THE VICINITY OF THE PEAK REPORTED TOPS OF THE STEAM
TO 15500 FEET WITH NO DETECTABLE DRIFT. A STEAM DISCHARGE
ABOUT 10.10 AM PST REACHED 17000 FEET.

AS LONG AS THE PEAK CONTINUES TO VENT PREDOMINATELY STEAM
IT WILL BE NEARLY IMPOSSIBLE FOR WEATHER RADAR TO DETECT
ANY ACTIVITY. VOLCANIC ASH IS EASILY DETECTED AND THE
RADAR WILL BE MONITORED CONTINUOUSLY FOR THIS POSSIBILITY.

FURTHER STATEMENTS WILL BE ISSUED ABOUT EVERY TWO HOURS
OR SOONER IF NECESSARY.

END/ROE

NNNN

WEATHER DISCUSSION FOR OREGON
NATIONAL WEATHER SERVICE PORTLAND OR
11 AM PST THU FEB 05 1981

THE UPPER WEATHER SYSTEM IS CURRENTLY ON THE NORTH OREGON COAST. THIS
IS SPREADING OCCASIONAL SNOW TO PORTIONS OF EASTERN OREGON AND SCATTERED
SHOWERS TO NORTHWEST SECTIONS. FREEZING LEVELS HAVE DROPPED TO 2500 TO
3500 FEET OVER THE CASCADES BRINGING SOME SNOW TO THE MOUNTAINS.

THE WEATHER SYSTEM IS EXPECTED TO GRADUALLY DROP SOUTHWARD ALONG THE
COAST. THIS WILL BRING A DECREASE IN SHOWERS TO ALL BUT THE SOUTHEAST
SECTION OF THE STATE TONIGHT AND COME CLEARING ON FRIDAY.

PRECIPITATION HAS BEEN HEAVIEST ALONG THE CENTRAL AND SOUTH COAST.
ABOUT A HALF AN INCH HAS FALLEN IN THE LAST 6 HOURS AT NORTH BEND.

BIGNESSSR TROOPER
 COMMUNICATIONS DIVISION
 STATE POLICE HEADQUARTERS
 SALEMOREG
 TEMPORARY

WOUS00 KSEA 051456
 ZCZC
 ADMN RWRE 051530
 NATIONAL WEATHER SERVICE SEATTLE WA
 730 AM PST THU FEB 5 GOIQ

MMMMOUNT ST HELENS PLUME TRAJECTORY FORECAST...

WINDS ARE VERY LIGHT EARLY THIS MORNING AND DIRECTIONS WILL VARY. A LOW CENTER IS CENTERED OVER SOUTHWEST WASHINGTON AND IS DRIFTING SLOWLY SOUTHWARD. WINDS CIRCULATE IN A COUNTER CLOCKWISE DIRECTION AROUND A LOW CENTER. THUS WIND DIRECTIONS WILL GO GENERALLY TO THE SOUTHWEST LATTER TODAY...BUT THERE WILL BE MUCH MEANDER IN LIGHT WINDS EARLY TODAY. LATTER TODAY...TRAJECTORIES WILL BE SOUTH OF A LINE FROM THE MOUNTAIN TO ASTORIA AND WEST OF A LINE FROM THE MOUNTAIN TO CASCADE LOCKS. EARLY TODAY HOWEVER TRAJECTORIES WILL GO IN ALL DIRECTIONS TO ABOUT 50 MILES FROM THE MOUNTAIN.



ELEVATION...FEET	WIND FROM ...DEG	SPEED...KT	PLUME GOES TO
6000	VARIABLE	10	MEANDERS
12000	PYP	15	WEST SOUTHWEST
18000	PYP	25	WEST SOUTHWEST
24000	PYP	35	WEST SOUTHWEST
30000	PYP	30	WEST SOUTHWEST
40000	EWP	15	SOUTHEAST
50000	EWP	15	SOUTHEAST

AVIATION WEATHER....
 BECOMING MVFR WITH LAYERS TO ABOUT 10000 FEET. PARTIAL CLEARING THIS AFTERNOON. FREEZING LEVEL 3500 FEET.
 ZIMMERMAN

0003 02/05/81 0544
0045 35H 3ROSP0000 02/05/81 0543
APB OREGON
OR EMERGENCY SERVICE

VOLCANO INFORMATION BULLETIN

*****ERUPTION ALERT*****

THE FOLLOWING INFORMATION WAS RECEIVED FROM THE CASCADE VOLCANO CENTER
AT 0505. DATE. PLEASE PASS ALONG TO LOCAL EMERGENCY SERVICES DIRECTORS.

"SEISMIC DATA OF THE LAST SEVERAL HOURS INDICATE AN ERUPTION OF
MT ST HELENS WILL PROBABLY BEGIN WITHIN THE NEXT 12 HOURS. THE
SEISMIC AND GEOLOGIC DATA INDICATE THE ERUPTION WILL MOST LIKELY
BE OF THE DUMB BUILDING KIND, AS WERE THE ONES OF DEC 27 AND JAN 4.

HOWEVER, DUE TO SOME SIMILARITY OF PRECURSERS BEFORE THE EXPLOSIVE
ASH ERUPTIONS OF JULY 22 AND OCT 16 AND THE CURRENT ONES WE FEEL
THAT AN EXPLOSIVE ERUPTION IS A DEFINATE POSSIBILITY."

BIGNESS, SR TROOPER
COMMUNICATIONS DIVISION
STATE POLICE HEADQUARTERS
SALEM, OREGON GHB

NOTIFICATIONS:

DEPT. GENERAL SERVICES - R. GASCON
DEPT. ENERGY - D. GODDARD
HIGHWAY DIVISION - F. LALEY
MILITARY DEPT. - B. METCALBERT
GEOLOGY - J. BEAUCU
GOV'S OFFICE - B. OLIVER
DEQ - SIM SWENSON
HEALTH - D. McFARLING
LMOA - McBRIDEN