# 1993 Flood Phase Guidelines Manual

## Purpose Statement

**The purpose of this manual is to provide a documented set of guidelines to assist with the training, planning and emergency response during flooding events for the affected area within the study limits identified on the Flood Phase Warning Map developed by the Seattle District, U.S. Army Corps of Engineers for the Centralia/Chehalis vicinity.**

*Cooperative effort of:*

**City of Centralia — City of Chehalis — Lewis County**
**Washington State Patrol — Seattle District, U. S. Army Corps of Engineers**

## Introduction

The Information contained in the Flood Phase Guidelines Manual was compiled jointly by representatives of the Seattle District, U.S. Army Corps of Engineers, Lewis County, and the cities of Centralia and Chehalis, and was based on the best information and data available at the time. The purpose of the Manual is to assist emergency response agencies in carrying out their responsibilities in mitigating, responding to and recovering from flood incidents.

The guidelines cover a wide variety of contingencies; however, there is no intention of addressing all "what if" questions that may be asked. All emergency response personnel involved in a flood incident are encouraged to become familiar with the content of these guidelines.

## Limitation

It is the policy of the entities involved that no guarantee is implied by these guidelines of a perfect response system. As local assets and systems may be overwhelmed, the jurisdiction involved can only endeavor to make every reasonable effort to respond based on the situation, information and resources available at the time.

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## Phase Descriptions

**Phase 1:** Phase 1 floods (shown as dark blue on map, see legend) inundate low, flood-prone areas, may cover a few roads, and occur every few years on the average. Sections of the following roads and streets may become inundated:

***Centralia-Galvin & vicinity***: Airport, Goodrich, Kresky, Little Hanaford, Nick, Teague.

***Chehalis & vicinity***: Airport, Chehalis, Donahoe, Exhibitor, Florida, Hamilton, Kirkland, Kresky, Prindle, Rice, Shoreline, S. Johnson, Tune.

**Phase 2:** Phase 2 floods (shown as blue on maps) may cause many roads and some residential and commercial areas to become flooded. Areas flooded in Phase 1 may become covered with an additional 2-4 feet of water in Phase 2. Flooding may become deep and hazardous, particularly in areas near river channels. Sections of the following roads and streets may become covered:

***Centralia - Galvin & vicinity***: All roads listed under Phase 1, Central-Meridian area streets, Cooks Hill, E. Downing, Eckerson, Galvin (between Galvin and bridge), Gold (high Phase 2, near Salzer and China Creeks), Hanaford, Harrison, Howard, Lakeshore and adjacent streets, Lincoln, Lincoln Cr., Lum and adjacent streets, Pearl, Reynolds, Sixth St. and adjacent streets, St. Route 507, WH Long.

***Chehalis & vicinity***: All roads listed under Phase 1, Bishop, Coal Cr., Hillburger, I-5 near 13th Street Interchange and northbound near Main St. (high Phase 2) , Jackson Hwy, LaBree, Main, Maryland, National, New York, Pacific, River, Riverside, Rush, Salzer Valley, Shorey, St. Route 6.

***Please note, in order to reproduce the Flood Phase Map for these guidelines, it was necessary to use orange on the map for Phase 4.***

**Phase 3:** Phase 3 floods (shown as light blue on map) causes many roads and residential and commercial areas to become flooded. The flood waters may become deep and hazardous in many areas, particularly Phase 1 and Phase 2 areas. Flood levels may become as high as those of the January 1990 flood (possibly higher in some areas). Sections of all roads listed under Phases 1 & 2 are expected to be covered with possibly deep and swift water. Roads and streets shown in the Phase 3 (light blue) portion of the map, including all main roads to the hospital and between Centralia and Chehalis may become covered.

**Phase 4:** Phase 4 floods (shown as lightest blue on map*) would cause flood levels to exceed those of the January 1990 flood in all areas. A majority of commercial and residential areas within the region may become inundated. Few roads will be uncovered and many roads may have deep and swift water over them. Flood waters will be hazardous in many areas.

***Note 1***: The inundation limits shown on this map are for the purposes of flood emergency preparedness only. The flood limits shown are approximate and may not accurately correspond to the actual limits of any given flood due to the unique and complex nature of individual flood events.

***Note 2***: The phase areas on the map represent the areas that are likely to become inundated if the largest floods within each phase occur. Smaller floods within each phase may not inundate all of the phase area indicated.

***Note 3***: Creek flooding usually occurs prior to, and independent of, river flooding. The information on this map will not necessarily help predict creek flooding.

## Phase Descriptions
## Gage Height vs. Phase

| Gage Location | Phase 1 begins at | Phase 2 begins at | Phase 3 begins at | Phase 4 begins at |
|---|---|---|---|---|
| Chehalis River near Doty (USGS) Upstream gage; approx. travel times are 15 hrs. to confluence with Newaukum & 20 hrs. to Mellen S. Bridge | 11.6 | 14.1 | 18.4 | 19.8 |
| Newaukum R. near Chehalis (USGS) Tributary gage; the Chehalis River typically peaks at its confluence with the Newaukum about 10 hrs. and at Mellen St. about 15 hrs. after this gage peaks. | 9.1 | 10.6 | 12.7 | 13.6 |
| Chehalis River at Mellen St. | 65.0 | 68.5 | 72.0 | 73.4 |
| Skookumchuck R. @ RM 6.4 (USGS) Upstream gage; approx. 4 hrs. travel time to Pearl St. Bridge. Forecast reliability affected by Skookumchuck Reservoir conditions. | 13.7 | 15.2 | 17.0 | 17.6 |
| Skookumchuck River at Pearl St. | 83.2 | 85.2 | 86.9 | 87.4 |

Gage heights indicate level at which the flood phase begins at the gage location. Flood severity may significantly increase as the flood moves from the upstream to the downstream locations. Travel times are averages from past floods, ***actual travel times may vary*** depending on flood size, storm distribution, available storage in Skookumchuck dam (Skookumchuck River only), and other factors.

**Emergency Operations Center** — General EOC concerns

| *Location* | *Phase 1* | *Phase 2* | *Phase 3* | *Phase 4* |
|---|---|---|---|---|
| **Centralia**<br>City Hall (2nd floor) | EOC reps on standby | Fully activated | Activated<br>High end of Phase 3, First floor of city hall flooded. | Activated |
| **Chehalis**<br>Henderson Park | EOC not activated<br><br>Primary personnel placed on standby | EOC activated in limited operation. | EOC is in full operation. | EOC continued full activation. |
| **County**<br>Public Services Building | County EOC not activated yet. EOC reps are placed on standby. | EOC partial activation.<br><br>USACOE, Seattle National Guard Wash.State Patrol State EMD Coordinated | EOC is fully activated at high end of Phase 3, the dispatch center courthouse is threatened. | EOC continued full activation. |

## Transportation Concerns — Roads (Closures, detours, road damage)

| *Location* | *Phase 1* | *Phase 2* | *Phase 3* | *Phase 4* |
|---|---|---|---|---|
| **Centralia** | Kresky<br>Military<br>Nick | General areas<br>(Specific areas, see Appendix A; page 32) | All arterials closed. Many isolated areas (stay home).<br>(See Appendix A; page 32) | Few streets remain open. Refer to map. |
| **Chehalis** | Airport Road<br>Chehalis Ave.<br>Exhibotor Drive<br>Florida Ave.<br>Kresky Ave.<br>Prindle St.<br>Riverside Drive<br>Shoreline Dr. | Interstate Ave.<br>Coal Creek Rd.<br>Hillburger Rd.<br>Main St.<br>Maryland Ave.<br>National Ave.<br>New York Ave.<br>Pacific Ave.<br>River Road<br>Alfred St.<br>John St.<br>James St.<br>Lewis St.<br>Elzina<br>Louisiana<br>Scott Johnson | 1st St.<br>3rd St.<br>5th St.<br>16th St.<br>William Ave.<br>Median<br>Kelly Ave. | Main St. East<br>North St.<br>Center St.<br>Interstate 5 (I-5)<br>State St. |
| **County** | Sections of roads inundated: Tune Rd. Airport Rd., Teitzel Rd., Hillburger Rd., and others. No serious disruption of transportation system. | Numerous roads impacted: Airport, Tune Shorey, Galvin, Lincoln Ave.,Lincoln Creek, State Hwy. 6, Big Hanaford,and others outside the study limit. | Numerous roads are closed. Some areas in north are isolated by flood waters. Major disruption of transportation system. | Numerous roads impassable and damaged. Transportation system comes to a halt. |

## Transportation Concerns — Interstate 5 (I-5) (Closure, detour, road damage)

| *Location* | *Phase 1* | *Phase 2* | *Phase 3* | *Phase 4* |
|---|---|---|---|---|
| **Centralia** | None anticipated. | None anticipated. | I-5 possibly closed. No detour available through Centralia.<br><br>Note: Closure of I-5 requires coordination with WSDOT. | I-5 closed. No detour available through Centralia. |
| **Chehalis** | None anticipated. | Closure I-5 south-bound outside lane at Exit 76. Outside northbound lane and northbound offramp Exit 77 and Exit 79.<br><br>Coordinate need of closure of I-5 to Exit 68. Notify WSDOT of potential of I-5 closure. | Some additional lane closure due to higher water closure of Exits 77 and 79 northbound and Exit 76 southbound. | Closure of both Exit 77 and Exit 79 over-passes and possibly Exit 76 overpass. |
| **County** | No issue. | No issue. | No issue. | I-5 closed from Salzer Creek area south. North to Exit 82 difficult to get on or off I-5. Road damage possible. |

**Transportation Concerns — Bridges** (Closure, debris, buildup, erosion of stream banks near and under bridge)

| *Location* | *Phase 1* | *Phase 2* | *Phase 3* | *Phase 4* |
|---|---|---|---|---|
| **Centralia** | None anticipated. Monitor for debris buildup. | Most China Creek bridges under water. | Monitor Harrison and Skookumchuck River bridges. | Potential for serious bridge damage. All bridges subject to closure. |
| **Chehalis** | Exhibitor Road<br>Kresky Ave.<br>Bridges | — — | National Ave. (north) | — — |
| **County** | Monitor for possible debris build-up and erosion. | Closely monitor for debris build-up and significant erosion problems. | Similar to Phase 2, only worse. | Many bridges closed and damaged. |

## Transportation Concerns — Railroads (Closure, damage)

| *Location* | *Phase 1* | *Phase 2* | *Phase 3* | *Phase 4* |
|---|---|---|---|---|
| **Centralia** | None. | No closure anticipated. | BNRR, CWRR possibly overtopped in vicinity of Salzer Creek | BNRR closed. UPRR closed. CWRR closed. |
| **Chehalis** | None anticipated. | None anticipated. | Same as Centralia above. | Same as Centralia above. |
| **County** | Coordinate any flood information with railroad companies. No anticipated problem. | Same as Phase 1. | Coordinate flood info with railroad companies. Possible disruption of rail service at high end of Phase 3. | Damage to railroad beds. Little or no rail service. |

**Transportation Concerns — Airport** (Closure, floodfighting, damage)

Note: Airport is mostly in Chehalis city limits

| *Location* | *Phase 1* | *Phase 2* | *Phase 3* | *Phase 4* |
|---|---|---|---|---|
| **Centralia** | None anticipated. | None anticipated. | See Chehalis and County. | See Chehalis and County. |
| **Chehalis** | Airport manager monitors pump. | Airport manager monitors pump and levee; reports status to Chehalis EOC and county EOC. | Dike overtopped basin will fill even if dike does not breech. Flood duration will determine level inside dike.<br><br>Evacuate all. | Airport closed and inundated. |
| **County** | Relay flood potential information to airport and city of Chehalis. | Both ends of Airport Rd. may be inundated and closed. | Airport levee may fail at high end of Phase 3, inundating entire airport and damaging planes. | Airport closed and inundated.<br>Heavy damage to any planes left on ground. |

## Utility Concerns — Natural gas lines

| *Location* | *Phase 1* | *Phase 2* | *Phase 3* | *Phase 4* |
|---|---|---|---|---|
| **Centralia** | None anticipated. | None anticipated. | None anticipated. | None anticipated. |
| **Chehalis** | None anticipated. | None anticipated. | None anticipated. | None anticipated. |
| **County** | Coordinate any flood information with gas company. No anticipated problem. | Same as Phase 1. | Same as Phase 1. | May be impaired. |

## Utility Concerns — Telephone lines (Largely wind-related problems)

| *Location* | *Phase 1* | *Phase 2* | *Phase 3* | *Phase 4* |
|---|---|---|---|---|
| **Centralia** | None anticipated. | None anticipated. | Possible city outage. | Possible city outage. |
| **Chehalis** | None anticipated. | None anticipated. | None anticipated. | None anticipated. |
| **County** | Coordinate any flood information with telephone company. No anticipated problem unless strong winds. | Same as Phase 1. | Same as Phase 1. | May be impaired. |

**Utility Concerns — Power lines** (Largely wind-related problems; another concern is that whenever power is down, food may spoil.)

| *Location* | *Phase 1* | *Phase 2* | *Phase 3* | *Phase 4* |
|---|---|---|---|---|
| **Centralia** | None anticipated. (City Light) Consider power disconnects to flooded building areas where evacuations are imminent. | Harrison Ave. power outage. 1st St. to I-5. | Possible major city outages. | Possible major city outages. |
| **Chehalis** | None anticipated. | None anticipated. | None anticipated. | PUD. Substations affected at Main and Kresky. |
| **County** | Coordinate any flood information with power company. No anticipated problem unless strong winds.<br><br>Lewis County PUD #1: Power disconnects to buildings or areas flooded should be coordinated with County EOC. | Same as Phase 1. | Same as Phase 1. | May be impaired. |

## Utility Concerns — Water Supply *

| *Location* | *Phase 1* | *Phase 2* | *Phase 3* | *Phase 4* |
|---|---|---|---|---|
| **Centralia** | Possible shutdown of Newaukum intake** and Riverside well. Increase chlorine to water supply and check turbidity. Remove all sources where turbidity standards are exceeded. | Riverside well flooded. | Washington and K Street wells shut down. | Municipal water system seriously impacted. |
| **Chehalis** | Has a filtration plant so turbidity probably will not be a problem. | None anticipated. | None anticipated. | None anticipated. |
| **County** | Coordinate any flood information with private water systems. | Same as Phase 1. | Same as Phase 1. | Same as Phase 1. |

***General concern: Anytime a well is inundated, pull the well off line and switch to an unaffected source. Chlorinate and test all wells after inundation has ceased and before well is placed back in service.**

****Newaukum intake will be off line 11/15/93.**

## Utility Concerns — Sewage Treatment Plants (Closures, floodfighting) *

| *Location* | *Phase 1* | *Phase 2* | *Phase 3* | *Phase 4* |
|---|---|---|---|---|
| **Centralia** | No problems anticipated. | Numerous pump station outages, system surcharged beyond plant capacity. | Possible plant shutdown. | Plant is shut down. |
| **Chehalis** | Protective measures taken. Prepare for operational problems. | Could be closed at high end of Phase 2. | Closed. | Closed. |
| **County** | No issue. No county treatment plants. | Same as Phase 1. Private septic systems drain field flooding. | Same as Phase 2. | Same as Phase 2. |

***General concern: All treatment plants to close as soon as high water threatens operation. Septic tank drain fields will be flooded. Notice will immediately be given to Public Health if plant bypass is occurring. Notice will be given by Public Health through radio/press announcements concerning potential health problems in water courses; request limited use of water supply to limit production of waste water. Some homes may experience plumbing backups.**

## Public Facility Concerns — Schools (Transportation concerns, closures)

| *Location* | *Phase 1* | *Phase 2* | *Phase 3* | *Phase 4* |
|---|---|---|---|---|
| **Centralia** | No problems anticipated. | School closures may be possible. | School closure probable. Washington school could be flooded. | Schools closed. Edison, Oakview, and the Jr. High School could be flooded. |
| **Chehalis** | None anticipated. | Consider closing for transportation reasons only and depending on information received from County EOC. | Same as Phase 2. | Same as Phase 2. |
| **County** | Coordinate road closures with school districts. | Possibility of school closures because of transportation concerns. | At high end of Phase 3 almost all schools closed due to transportation concerns. | All schools closed, some may be damaged. |

**Public Buildings** (Closures, floodfighting damage)

| *Location* | *Phase 1* | *Phase 2* | *Phase 3* | *Phase 4* |
|---|---|---|---|---|
| **Centralia** | No problems anticipated. | City Hall sandbag front and back doors. | Closure of Treatment Plant, City Hall and potential for City Light Building. Centralia EOC inaccessible. | City Light Building<br>City Hall, lower floor<br>Fire Department<br>Treatment Plant<br>Parks Office<br>Water and Waste Water Offices |
| **Chehalis** | None anticipated. | None anticipated. | Under high Phase 3, evacuate State Patrol Office. | Central dispatch may be closed due to flooding in basement of old Courthouse. |
| **County** | No issue. | No significant issue with Courthouse. | At high end of Phase 3, possibility of Courthouse basement and jail being flooded. Floodfight around building may be needed. | Courthouse and jail probably flooded. Jail and dispatch moved to safe location. |

## Public Parks

| *Location* | *Phase 1* | *Phase 2* | *Phase 3* | *Phase 4* |
|---|---|---|---|---|
| **Centralia** | Minor flooding at Parkin and Riverside Parks. Remove floatable items. | Borst Park south half flooded. | Majority of Borst Park flooded. All city parks flooded. | Same as Phase 3. |
| **Chehalis** | Hedwall Park partially inundated — closed. | Millett closed. | All low land parks closed. | Parts of Recreation Park closed. |
| **County** | No issue. Coordinate flooding information with Parks Division. | Minor impact to Schaefer Park out-buildings is possible. Flooding of park land. Access within park limited. | Schaefer Park flooded. Schaefer Park closed. Twin Cities Senior Center closed, but hopefully not flooded. | Parks closed and flooded. |

**Fairgrounds** (Floodfighting, damage)

Note: Fairgrounds is in county limits.

| *Location* | *Phase 1* | *Phase 2* | *Phase 3* | *Phase 4* |
|---|---|---|---|---|
| **Centralia** | No issue. | See county comment. | See county comment. | See county comment. |
| **Chehalis** | No issue. | See county comment. | See county comment. | See county comment. |
| **County** | S.W. Washington Fair staff makes sure pump works. | S.W. Washington Fair staff makes sure pump works, and monitor levee closely. | S.W. Washington Fair staff monitors levee and pump closely. Floodfighting from top of levee possible. At high end of Phase 3 levee and pump may fail, inundating all of fairgrounds. Sewage pump station inaces-sible; shutdown. | Flooded, with extensive damage. |

## Skookumchuck Levee

| *Location* | *Phase 1* | *Phase 2* | *Phase 3* | *Phase 4* |
|---|---|---|---|---|
| **Centralia** | Monitor, no problems anticipated. | Monitor, no problems anticipated. | Water on backside from BNRR at Prospect. | Possibly overtopped. Major problems Edison district and downtown. |
| **Chehalis** | No issue. | No issue. | In support role to Centralia. | In support role to Centralia. |
| **County** | Not a county issue. | Not a county issue. | Not a county issue. | Not a county issue. |
| | | | County assistance may be requested. | County assistance may be requested. |

## Sand, Sandbags, Riprap

| *Location* | *Phase 1* | *Phase 2* | *Phase 3* | *Phase 4* |
|---|---|---|---|---|
| **Centralia** | Confirm sandbag supplies are adequate. | Available at public facilities: street shop, Fire Department. | Available at public facilities: street shop and Fire Department. Anticipate very heavy usage. | Bags available, need boats. (See Waste Water Treatment Plant.) |
| **Chehalis** | Sandbags available at Public Works. Sand stockpiled. Sandbags used as flood proof for critical locations. | Volunteers recruited for sandbag filling. Sandbags (full) stockpiled. | Sandbags delivered to critical locations and dikes constructed. | Sandbags useless; get a lot of boats for evacuations. |
| **County** | Confirm that sandbag supplies are adequate. | Sand, sandbags, riprap made available to protect public facilities. Sand and sandbags made available to private property owners if supplies adequate. | Extensive use of sand, sandbags, and riprap supplies. Supplies (if low) may not be available to private property. Difficulty in using supplies at high end of Phase 3 because of flooded roads. | Possibility of exhaustion of supplies and/or severe transportation problems which make remaining supplies useless. |

**Shelter** (Shelters for displaced people)

| *Location* | *Phase 1* | *Phase 2* | *Phase 3* | *Phase 4* |
|---|---|---|---|---|
| **Centralia** | None anticipated. | Red Cross responsible for sheltering/mass care. Not Riverside or Lakeshore. | Red Cross responsible for sheltering/mass care. Not Alder Street Church. | Red Cross responsible for sheltering/mass care. NO MOTELS. |
| **Chehalis** | No issue. | Begin work with Red Cross for possible sheltering and mass care. | Coordinate with Red Cross and schools for shelter sites. | Same as Phase 3 |
| **County** | No county shelters at Phase 1. Red Cross responsible for sheltering/mass care flood victims. | Notify Red Cross and place shelters on standby and may be opened during large Phase 2 events. | Place shelters on standby and may be opened during large Phase 2 events. | Red Cross shelters open, but transportation to shelters extremely difficult and hazardous. |

**Special Private Facility Concerns —** Providence Hospital (transportation) Note: Hospital is in Centralia city limits.

| *Location* | *Phase 1* | *Phase 2* | *Phase 3* | *Phase 4* |
|---|---|---|---|---|
| **Centralia** | No issue. | Access open. | Access closed when Mellen Interchange closes. | Access closed. |
| **Chehalis** | None anticipated. | None anticipated. | Airlift operations necessary from Providence Chehalis. | Same as Phase 3. |
| **County** | No issue. | No direct county issue. Due to flooding of outlying roads, county residents may find difficulty in reaching hospital.<br><br>Airlift operations may be necessary. (DEM will access.) | At high end of Phase 3 almost impossible for county residents to reach hospital. | Hospital isolated by flood waters. Access by boat and helicopter only. |

**Law Enforcement** - General law enforcement concerns

| *Location* | *Phase 1* | *Phase 2* | *Phase 3* | *Phase 4* |
|---|---|---|---|---|
| **Centralia** | PD informed of conditions and forecasts. | PD personnel assist with warning, traffic control scouting, protection of property. | Police Dept. on 12-hour shifts. Station open if not flooded. PD personnel assist with warning, traffic control scouting protection of property. | Same as Phase 3. Police station will be evaculated. |
| **Chehalis** | Assure public is aware of road closures and respond to traffic hazards and notify Public Works | Continue to monitor and notify city agencies. Start supporting EOC and other agencies. | Full alert 12 hour shifts with standby. May need support from reserves and other agencies. | Full response, evacuation road blocks, respond to looting, light rescue support from other agencies. |
| **County** | Lewis Cty.Sheriff patrols monitor roads along with historic trouble locations and notify Emergency Management of problem areas developing. | Sheriff patrols assist Public Works with road closures. Be aware of danger areas in the event evacuation is needed. Use all available 4x4 vehicles on patrol. Deploy Search & Rescue resources to problem areas based on requests for flood assistance. | Implement call out for Search and Rescue personnel at first indication of Phase 3. Place all SAR resources on standby status at resource location. Deploy SAR personnel as needed. | Implement major resource list call out including ground and air support. LCSO call out for department manpower. |
| **WSP** | Same as county and state transportation issues. | Assist other agencies when possible; high end call in additional personnel from outside area and deploy rep. to County EOC, as needed. | Escalate response provided under Phase 2. Implement 12-hour shifts. | Increase personnel from outside the district. |

**Fire Services** — General fire service concerns

| *Location* | *Phase 1* | *Phase 2* | *Phase 3* | *Phase 4* |
|---|---|---|---|---|
| **Centralia** | — — | Assist in sandbagging and flood monitoring efforts. | Assist in sandbagging and possible evacuation efforts. | Centralia Fire Dept. will have relocated. |
| **Chehalis** | Place firemen on alert. Keep abreast of local conditions. | Place on standby. Be advised of local conditions. Be prepared for notifications and evacuations. | Begin evacuation and protection of property, as directed. | All available firemen evacuating, sandbagging, etc. |
| **County** | Firemen placed on alert, and kept updated on flooding conditions. | On standby and kept advised of flooding conditions. Units may be involved with evacuations. | Firemen involved with evacuation and protection of property. | Firemen overwhelmed with evacuation and protective duties. |

## Public Works — Road Division/WSDOT — General public works concerns

| *Location* | *Phase 1* | *Phase 2* | *Phase 3* | *Phase 4* |
|---|---|---|---|---|
| **Centralia** | Monitor storm drainage system, confirm sand-bag supplies, key employees on alert. | Supervisor and crews on duty for approximately 36 hrs. Traffic control, sandbagging, monitoring High end of Phase 2, coordinate detouring on Gold, Kresky, and National with Chehalis. | Traffic control, dike monitoring and repairs as necessary, hauling sand and bags. | Assist in evacuations of areas protected by dikes. |
| **Chehalis** | Key staff alert. Keep abreast of local conditions. | Supervisor and key staff monitoring local conditions, watching roads, removing debris. Clearing and closing roads. Traffic control, hauling sand & bags, helping evacuation. High end Phase 2, coordinate detouring on Gold, Kresky and National with Centralia. | Same as Phase 2, but with more intensity. | Primary issue is evacuation. |
| **County** | Key employees placed on alert, & kept updated on flooding conditions. Important for maintenance crews to be alerted. | Supervisor & crews monitoring flooding conditions, closing roads, and removing debris, as necessary. Coordinate w/WSP on road closures & providing updates to County EOC. | Crews are closing roads, re-routing traffic, removing debris & helping with evacuation. | Crews overwhelmed with disaster. By this time, may be helping primarily with evacuation. |
| **WSP** | Same as county. | Supervisors and crews monitoring flooding conditions, closing roads, & removing debris as necessary. | Crews closing roads, re-routing traffic, removing debris, & maintaining closure sites on state highways. | Provide assistance, as necessary. |

## Evacuation — Apartment, Residential and Private Housing

| *Location* | *Phase 1* | *Phase 2* | *Phase 3* | *Phase 4* |
|---|---|---|---|---|
| **Centralia/Apartment** | None anticipated. | None anticipated. | None anticipated. | Evacuations possible at the following facilities: Lewis St.; South Pearl Senior; Brotherson Rd. & W. Main St. |
| **Centralia/Residential** | None anticipated. | Emerg.evacuation may be needed w/in area protected by Skookumchuck Dike from G St. up stream to Union Pacific RR. | In addition to previous-phase areas, Long Rd. S of Alder, W. Main area, Howard, Eureka Eureka & E.Carson area, Logan district area of Delaware, S. Diamond vicinity Chestnut, area E. & S. of Plummers Lk. to Chehalis West.RR, Pearl Street N. of Skookumchuck to UPRR grade, Military Rd. & Shamrock Dr. area, Dickey Rd., Sunset Wy. & Eckers on Rd. vicinity. | In addition to previous-phase areas, the Skookumchuck Dike is subject to overtopping. If this occurs, evacuations within affected areas will be extremely difficult. Loss of life may occur w/ large property damage. If Phase 4 event is predicted by Weather Svc., property owners w/in Phase 1, 2 & 3 areas should evacuate to high ground. |
| **Chehalis/Apartment** | None anticipated. | Chehalis Ave. apts. start to evacuate & relocate. Possible supplemental assistance from Natl. Guard or law enforcement. | All evacuated | — — |
| **Chehalis/ Private** | Alert west side of freeway. | Evacuate west side of freeway. Alert Chehalis Ave., Cascade, Alfred, James, Lewis, 3rd St., Pacific, and Prindle. | Alert Snively area, Sitka, Geary, State. Evacuate Chehalis Ave. Cascade, Alfred, James, Lewis, 3rd St., Pacific, and Prindle. Notify Tauscher Mobile. | Evacuate Snively area, Sitka, Geary, State. |
| **County** | None. | None. | None. | None. |

## Evacuation — Motels

| *Location* | *Phase 1* | *Phase 2* | *Phase 3* | *Phase 4* |
|---|---|---|---|---|
| **Centralia*** | Notify Riverside Motel. | Lakeshore, Huntly Inn, Ferrymans. All could experience flooding and evacuation problems. | Peppertree West Motor Inn could experience flooding and evacuation. | Park Motel<br>Motel 6 |
| **Chehalis** | None anticipated. | Notify Pony Soldier (may become isolated by closure of Interstate Avenue) | Lower units of Pony Soldier Motel evacuated. | Notify Cascade Motel. |
| **County** | No issue.<br>No motels in county area. | No issue, unless cities need help with evacuation. | No direct county issue but may have to aid in evacuation. | Flood prone motels must be evacuated long before this phase. |

***Special population needs.**

## Evacuation — Nursing and Retirement Homes

| *Location* | *Phase 1* | *Phase 2* | *Phase 3* | *Phase 4* |
|---|---|---|---|---|
| **Centralia** | None impacted. | None anticipated. | The following could be flooded and people may need to be evacuated.<br>1) Long Rd.Centralia Convalescent<br>2) Washington Health Care Center/ Riverside (Alexander St.) | Guests only (South Tower St.) may be flooded and people may need to be evacuated. |
| **Chehalis** | None anticipated. | None anticipated. | None anticipated. | None anticipated. |
| **County*** | No direct county issue. | No issue, unless Centralia needs help with evacuation of residents. | No direct county issue, but may have to aid in evacuation. | All residents must be evacuated long before this phase. |

*** Army National Guard support requested by County DEM as conditions indicate.**

# Transportation Concerns (Road Closures)

## Centralia - Phase 1

***Arterial***

Military ..... Shamrock Drive vicinity

***Residential Streets***

Nick Road ..... Northerly 800 Ft.

## Centralia— Phase 2

***Arterial (In addition to previous Phase)***

Kresky ..... Summa to South C/L
North Gold Street ..... Locust to Marion
Maple Street ..... Iron to Diamond
Main Street ..... Rock to Washington
Locust Street ..... King to Yew
Yew Street ..... Pear to Cherry
North Pearl - SR 507 ..... Reynolds to Sixth Street
North Pearl - SR 507 ..... Magnolia to Center
North Pearl - SR 507 ..... Howard to Schaefer Park
North Pearl - SR 507 ..... Carson to Oakview
Harrison ..... First to I-5
Reynolds - County ..... At Coffee Creek
Cooks Hill ..... Scammon to Scheuber
Marion Street ..... At Gold & E City Limits
Washington ..... Main to Walnut

***Residential Aread (In addition to Phase 1)***

- Two blocks north and south of China Creek
- Waunch Prairie - The majority of residential streets will experience flooding; of most concern are Howard, Eureka and the east end of Oakview and Carson
- The west end of 5th, 6th and 7th Streets
- Eckerson and Harrison to Sunset

## Centralia - Phase 2 (contd.)

- Lum Road - Reynolds and Earl
- Long Road, South of Brotherson
- Fair Street
- Delaware and Warsaw to Vienna
- Diamond - Plum to Chestnut
- Windsor - Warsaw to Vienna
- Shamrock Drive
- Latona
- Denny Way
- Scott Drive - Johnson
- South end Bryden and Oakland
- East end of Southgate
- Dickey Road
- Central Blvd. north of Union Pacific Railroad grade

## Centralia - Phase 3

***Arterial (In addition to previous Phases)***

Mellen Street ..... Yew to Alder
S. Gold Street ..... Summa to S. City Limits

***Residential Areas***

95% of residential streets within the city could be flooded at some time during a Phase 3 event.

## Centralia— Phase 4

***Arterial (In addition to previous Phases)***

All arterials are closed within Centralia.

***Residential Areas***

98% of residential streets will be flooded during a Phase 4 event.