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## Emergency Classifications

There are two emergency classifications at Fort Calhoun Station that might require you to take protective actions. If you need to take special actions, an Emergency Alert System radio or TV station will be your official source for information, 24 hours a day. (E.g.: radio station KFAB, 1110 AM.)

- 1. Site Area Emergency** – This means that a problem at the plant may involve a release of some radioactivity from the plant. Any release, however, would not be expected to exceed standards set by the federal government for protection of the public.
- 2. General Emergency** – This means that events at the plant may involve real or possible reactor core damage.

## Radiation

The natural radiation we receive each year from the sun and the earth, from what we eat and drink, and from medical diagnosis and treatment is hundreds of times greater than that released to the environment by a nuclear power plant.

The following is taken from National Council of Radiation Protection (NCRP) 160-2009 "Ionizing Radiation Exposure of the Population of the US". Information based on the U.S. average, annual millirem (mrem) exposure per individual, per activity.

**Nuclear Energy**..... Less than 0.1 mrem  
**Consumer Products** ..... 13 mrem

### Occupational Sources

**Medical workers, aviation, industrial, mining, commerce, etc** ..... 0.5 mrem

### Medical Procedures

**CT** ..... 147 mrem  
**Nuclear medicine**..... 77 mrem  
**Diagnostic X-rays**..... 76 mrem

### Natural Backgrounds

**Radon and Thoron (inhalation)**...228 mrem  
**Terrestrial and space (external)** ..... 54 mrem  
**Internal ingestion** ..... 29 mrem

Nuclear power plants, including Fort Calhoun Station, are built to prevent radioactivity from reaching the environment, both during normal operation and in the event of an accident. Even so, you should be familiar with protective actions that can help keep exposure and exposure time within acceptable limits in an emergency. Please keep this information for handy reference.

## Animal, Livestock and Crop Protective Actions



Farmers, food processors, and distributors that operate within the Emergency Planning Zone of the Fort Calhoun Nuclear Station are sent a brochure, which provides information about actions needed to protect the food chain. Copies of the brochure, "Radiological Emergency Information for Farmers, Food Processors and Food Distributors," are available by calling:

**Iowa:**  
Iowa Department of Homeland Security and Emergency Management 1-515-725-3231

**Nebraska:**  
Washington County 1-402-426-9455  
Douglas County 1-402-444-7804

If there is an emergency at the Fort Calhoun Nuclear Station, farmers may be asked to put milk-producing and other livestock in buildings and, if possible, provide them with stored feed and protected water.

# EMERGENCY PLANNING INFORMATION



This brochure provides information about Fort Calhoun Station (FCS) and actions you may be asked to take in the unlikely event of an accident at the plant. The Nuclear Regulatory Commission requires specific plans for protecting the public within an approximate 10-mile radius of any nuclear power plant. Areas affected around FCS include parts of Douglas and Washington counties in Nebraska, and parts of Harrison and Pottawattamie counties in Iowa. (See map on inside.)

### Important Notes:

- Fort Calhoun Station is scheduled to cease operations by the end of 2016.
- OPPD remains committed to protecting the health and safety of the public throughout plant decommissioning.
- The plant decommissioning process can take up to 60 years.
- OPPD's Emergency Response Organization remains in place.

**Important!**  
**Please read**  
**and keep this**  
**material.**

*your energy partner*



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Issued September 2016

## What to do if the sirens sound

OPPD has installed a siren system that can be heard within a 10-mile radius of Fort Calhoun Station.

**NOTE: All sirens are tested at full volume for one minute on the first Tuesday of each month at 10 a.m. OPPD also does a yearly system operability test to verify the operability of the system.**

OPPD has installed a siren system that is capable of alerting the general public in Fort Calhoun Station's Emergency Planning Zone (EPZ), an approximate 10-mile radius around the plant, in the event of a declared **Site Area or General Emergency**.

**IF** an emergency is declared:

- The sirens will be sounded (you will hear a three- to five-minute steady tone).
- Turn on your radio or television.
- Emergency Alert System (EAS) messages will be broadcast to advise the public of protective actions deemed necessary by state and county emergency management officials to protect public health and safety.
- Stay tuned to an EAS station (e.g., radio station KFAB at 1110 AM) and follow the recommendations of state and local officials.

## Protective Actions

Conditions at the Fort Calhoun Station are continually monitored. If an unexpected release of radiation occurs or is projected, state and local officials may order protective actions (**evacuation or in-house sheltering**).

### Evacuation

Evacuation would normally be directed as a precaution when large amounts of radioactivity are expected to escape over a prolonged period. If it becomes necessary to leave the area, follow these general instructions:

- Stay calm and do not rush.
- Gather what you and your family may need for a few days:

#### Clothing

**Personal items** — soap, towels, toothpaste, toothbrushes, sanitary supplies, shaving articles, eyeglasses, dentures

**Important items** — credit cards, cell phones and chargers, checkbook, this brochure, laptops and papers with important information

**Children and infant supplies** — disposable diapers, baby food, bottles, favorite toys

**Medical supplies** — medicines, prescriptions, first-aid kit

**Other supplies** — sleeping bags, portable radio, flashlight, batteries, plastic or paper bags

- Animal owners are responsible for the care and control of their personal pets and livestock. For all animals left behind, it is recommended that you provide an ample supply of food and water. If you are evacuating with a pet, bring all current immunization records.
- Turn off the same appliances you'd turn off if you were taking a two- or three-day trip. Lock all doors and windows.
- Keep windows and vents in your vehicle closed while driving in the emergency zone within 10 miles of the plant.

- Follow the evacuation routes mapped out for you. (See map on reverse.)
- Go directly to the registration center (listed below) designated for your sub area. Officials there will assist you in finding food, shelter and, if you become separated, locating other family members.
- Please check with friends and neighbors to ensure they have evacuation information.

### Registration Centers

Registration centers are set up to receive all evacuees. Trained officials will check you and your vehicle for any unlikely radioactive contamination and will provide decontamination services, if needed. The American Red Cross will register all evacuees, supply food and lodging, etc. **NOTE: It is important to register at your designated site even if you don't plan to stay there. This will assist officials and other family members in locating you.**

#### Iowa:

Denison Community High School, North 16th St.

#### Nebraska:

Fremont, Middle School, 540 Johnson Road

- If evacuated, you and your family will be advised when state officials determine you can reenter the evacuated area.



### Schools

If an evacuation is necessary, Missouri Valley schools will be relocated outside the "risk" area, prior to evacuation of the general public. Fort Calhoun and Blair, NE, schools will be relocated according to each school district's emergency plan.



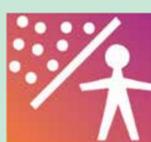
### Special Populations

Provisions for special populations are in place. Residents of nursing homes, hospital patients, children in daycare and preschools, and prisoners will be relocated outside the "risk" area, in accordance with facility, county and state emergency plans.

## In-house sheltering

In-house sheltering simply means going indoors and staying there until the emergency has passed. If in-house sheltering is recommended:

- Close all windows and doors. Turn off fans and air conditioning that require outside air. Close any other air intakes.
- If you have been outside, wash your hands and face, especially before eating or handling food. If possible, take a shower with cool or lukewarm water. Wash any clothes you were wearing while outside.
- Cover all open food containers.
- Keep phone lines open for emergency communications.
- Stay inside until you receive official word that it is safe to go out.



### Other Protective Actions

If an accident did release extremely small particles of radiation into the air, officials might tell citizens to make a simple breathing protection device. For example, a cotton handkerchief can be used to prevent inhaling small radioactive particles. The handkerchief should be dry, folded into eight layers and placed snugly over the mouth and nose.

TV and radio stations may broadcast emergency information. Please see the evacuation route map and related details on reverse.



## Access/Functional Needs

People with physical disabilities or others who need transportation should call the appropriate number below. In addition, people who would need special assistance in the event of an emergency evacuation should complete and mail the postcard below.

#### Iowa:

Harrison County Sheriff 1-712-644-2244  
Pottawattamie County Communications 1-712-328-5777

#### Nebraska:

Washington County 1-402-426-6866  
Douglas County 1-402-333-1000

Able-bodied residents of Blair, Fort Calhoun and Kennard who need transportation should report to the closest of the following locations to get transportation to a registration center.

#### Blair:

- West School, 23rd & Front St.
- Rhoades Garden Park, 19th & South St.
- North School, 14th & Jackson
- Senior High, 10th & Park St.
- Veterans Memorial Field, 14th & Butler
- Former Dana College, 28th & College St.

#### Fort Calhoun:

Fire Hall Kennard City Auditorium

CUT ALONG DOTTED LINE

## Access/Functional Needs Information Card

If you or other members of your household would require special assistance in the event of an emergency evacuation, please complete and return this postcard.

**PLEASE UPDATE THIS CARD ANNUALLY.**

OPPD will forward this information to state and local emergency service agencies. We will not use or disclose any personal information you provide except for emergency planning purposes or except as otherwise required by law.

### Special assistance would be needed for:

Name \_\_\_\_\_  
Address \_\_\_\_\_  
City, State, Zip \_\_\_\_\_ (If P.O. box or rural route, provide directions)  
Phone \_\_\_\_\_  
Sub Area (please refer to map on reverse) \_\_\_\_\_ **FOLD HERE**

- Full-time resident  
 Part-time resident (specify which months at this address) \_\_\_\_\_

### Nature of special conditions:

- Deaf and hearing-impaired  Confined to bed  
 Blind and sight-impaired  Other \_\_\_\_\_  
 Confined to a wheelchair

### Special emergency assistance required: (Check only those that apply)

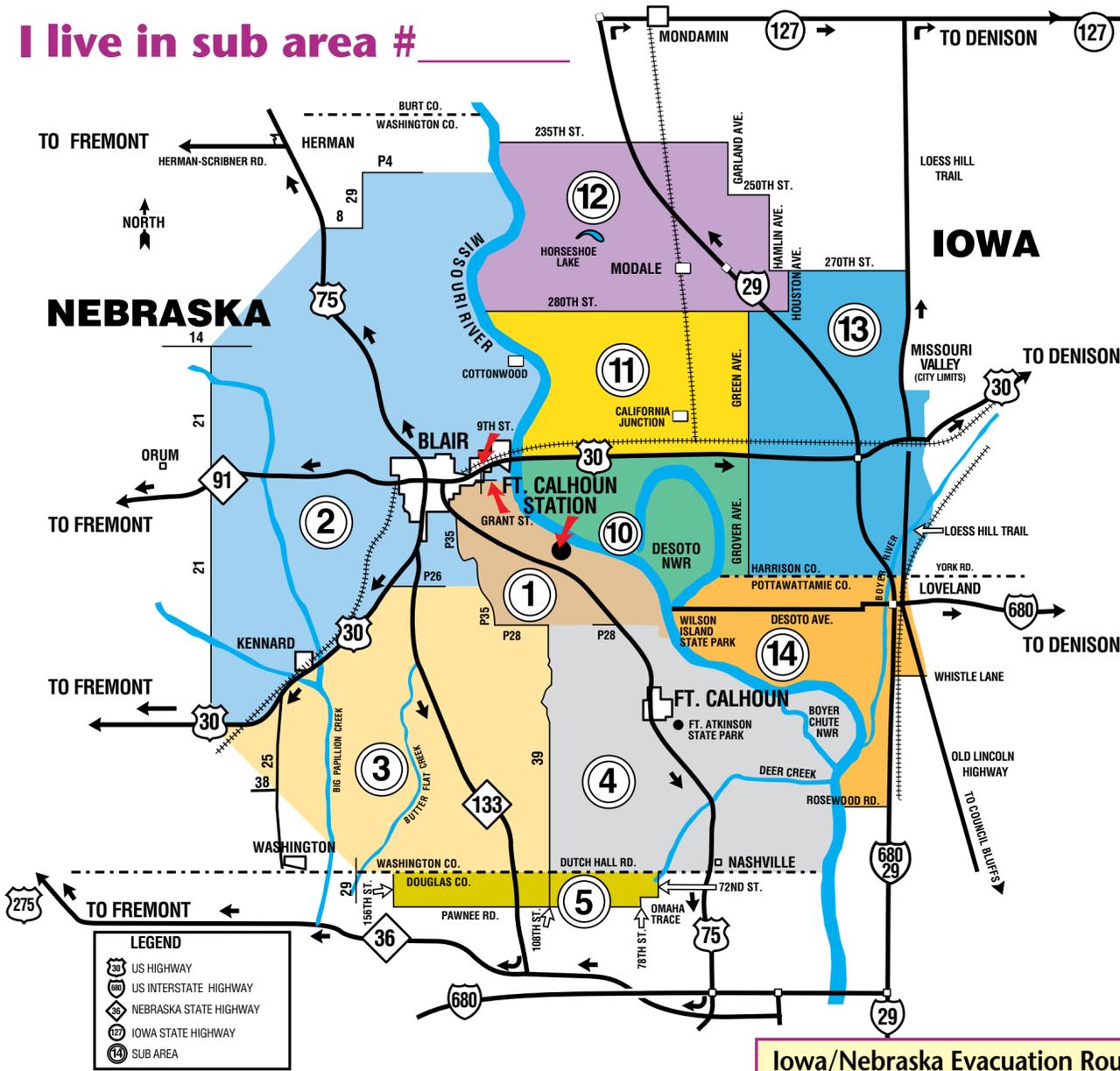
- Special notification because impairment prevents hearing siren warning system.  
 Transportation, if evacuation is required. (Also, see information above)  
 Special accommodations because of physical impairment or medical condition.

Name of person completing this card: \_\_\_\_\_

Phone (home) \_\_\_\_\_ (work) \_\_\_\_\_

# Fort Calhoun Station EPZ Evacuation Route Map

I live in sub area # \_\_\_\_\_



In case of emergency, the river will be closed between mile markers 630 and 660, which includes the section of river shown above.

**Iowa/Nebraska Evacuation Routes**  
[homelandsecurity.iowa.gov](http://homelandsecurity.iowa.gov)  
[nema.ne.gov](http://nema.ne.gov)      [oppd.com](http://oppd.com)

**BUSINESS REPLY MAIL**

POSTAGE WILL BE PAID BY ADDRESSEE  
 FIRST CLASS MAIL PERMIT NO. 860 OMAHA, NE  
 OMAHA PUBLIC POWER DISTRICT  
 OMAHA PUBLIC POWER DISTRICT  
 444 S. 16TH STREET MALL  
 OMAHA, NE 68102-9969

NO POSTAGE  
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 UNITED STATES

**For more information about this material, please write or call:**

Iowa Department of Homeland Security and Emergency Management  
 7900 Hickman Road, Suite 500  
 Windsor Heights, IA 50324  
 1-515-725-3231      [homelandsecurity.iowa.gov](http://homelandsecurity.iowa.gov)

Nebraska Emergency Management Agency  
 2433 NW 24th Street  
 Lincoln, NE 68524-1801  
 1-402-471-7428/7408      [nema.ne.gov](http://nema.ne.gov)

Omaha Public Power District  
 Corporate Marketing & Communications  
 444 S. 16th St. Mall  
 Omaha, NE 68102-2247  
 1-402-533-6426      [oppd.com](http://oppd.com)

## Nebraska Evacuation Routes

Sub Area	Description	Evacuation Route
1	<b>This area includes the DeSoto National Wildlife Refuge and the entire Blair Industrial Park, but does not include the city of Blair. This area is bounded:</b> <b>on the north</b> by and on a line with the southern boundary of the Blair city limits from the Missouri River west to 9th Street. <b>on the west</b> by the eastern boundary of the Blair city limits south from Grant Street and 9th Street to Highway 75, south on Hwy 75 to County Road P35, south on P35 to County Road P28. <b>on the south</b> from the intersection of County Road P35 and County Road P28 by and on a line with County Road P28 east to the DeSoto National Wildlife Refuge, following the southern boundary of DeSoto east to the Missouri River. <b>on the east</b> by that stretch of the Missouri River from the southern boundary of the DeSoto National Wildlife Refuge north to the southern boundary of the Blair city limits.	County Roads west to U.S. Hwy 30. (do not drive past or toward Fort Calhoun Station) West on U.S. Hwy 30 to Fremont.
2	<b>This area includes the city of Blair, the village of Kennard, but does not include the village of Herman. This area is bounded:</b> <b>on the north</b> by and on a line with County Road P4 from the Missouri River west to County Road 29, County Road 29 south to County Road 8, County Road 8 west to Highway 75. <b>on the west</b> from the intersection of County Road 8 and Highway 75 SSW to the intersection of County Road 14 and County Road 21, County Road 21 south to Highway 30. <b>on the south</b> from the intersection of County Road 21 and Highway 30 north and northeast following Highway 30 to County Road P26, County Road P26 east to County Road P35, County Road P35 north to Highway 75, the eastern boundary of the Blair city limits to the intersection of Grant Street and 9th Street, by and on a line with the southern boundary of the Blair city limits east to the Missouri River. <b>on the east</b> by the Missouri River from a line with the Blair city limits north to a line with County Road P4.	(Residents of Blair) west on State Hwy 91 to U.S. Hwy 77/275, south on U.S. Hwy 77/275 to Fremont. <b>or</b> , west on U.S. Hwy 30 to Fremont. <b>or</b> , (Residents north of Blair) County Roads to U.S. Hwy 75, north on U.S. Hwy 75 to the Herman-Scribner Road, west on the Herman-Scribner Road to U.S. Hwy 77/275, south on U.S. Hwy 77/275 to Fremont. <b>or</b> , (Residents south and west of Blair) County Roads to U.S. Hwy 30, west on U.S. Hwy 30 to Fremont.
3	<b>This area does not include the village of Washington, the Blair city limits, or the village of Kennard. This area is bounded:</b> <b>on the north</b> by and on a line with County Road P28 from County Road 39 west to County Road P35, County Road P35 north to a line with County Road P26, by and on a line with County Road P26 west to Highway 30. <b>on the west</b> from the intersection of County Road P26 and Highway 30 following Highway 30 SSW to County Road 21. <b>on the south</b> from the intersection of Washington County Road 21 and Highway 30 SSE passing through the intersection of Washington County Road 38 and County Road 25 just north of the village of Washington, continuing SSE to the intersection of Washington County Road 29 and Dutch Hall Road (the Washington/Douglas County Line), east on Dutch Hall Road to Washington County Road 39. <b>on the east</b> from the intersection of Dutch Hall Road and County Road 39 north on County Road 39 to County Road P28.	South to NE Hwy 36, NE Hwy 36 west to U.S. Hwy 275, north on U.S. Hwy 275 to the Fremont Military Avenue exit, west on Military Avenue to Johnson Road, Johnson Road south to the Fremont Middle School.
4	<b>This area includes the city of Fort Calhoun and the Boyer Chute National Wildlife Refuge. This area is bounded:</b> <b>on the north</b> by the southern boundary of the DeSoto National Wildlife Refuge west from the Missouri River to a line with County Road P28, by and on a line with County Road P28 west to County Road 39. <b>on the west</b> from the intersection of County Road 39 and County Road P28 south on County Road 39 to Dutch Hall Road (the Washington/Douglas County Line). <b>on the south</b> from the intersection of County Road 39 and Dutch Hall Road by and on a line with Dutch Hall Road (the Washington County Line to the Missouri River) east to the Missouri River. <b>on the east</b> by that stretch of the Missouri River from a line with Dutch Hall Road to the southern boundary of DeSoto National Wildlife Refuge.	South to NE Hwy 36, NE Hwy 36 west to U.S. Hwy 275, north on U.S. Hwy 275 to the Fremont Military Avenue exit, west on Military Avenue to Johnson Road, Johnson Road south to the Fremont Middle School.
5	<b>This area is entirely within Douglas County. This area is bounded:</b> <b>on the north</b> by the intersection of 72nd Street and Dutch Hall Road (the Washington/Douglas County Line) west to 156th Street. <b>on the west</b> from the intersection of 156th Street and Dutch Hall Road, 156th Street south to Pawnee Road. <b>on the south</b> from the intersection of 156th Street and Pawnee Road, Pawnee Road east to the intersection of 78th Street and Pawnee Road, 78th Street north to the Omaha Trace, then east to the intersection of Omaha Trace and 72nd Street. <b>on the east</b> from the intersection of the Omaha Trace and 72nd Street north to Dutch Hall Road.	South to NE Hwy 36, NE Hwy 36 west to U.S. Hwy 275, north on U.S. Hwy 275 to the Fremont Military Avenue exit, west on Military Avenue to Johnson Road, Johnson Road south to the Fremont Middle School.

## Iowa Evacuation Routes

Sub Area	Description	Evacuation Route
10	<b>In Harrison County, an area bounded:</b> <b>on the north</b> by U.S. Highway 30 east from the Missouri River to Grover Avenue. <b>on the east</b> by Grover Avenue south from U.S. Highway 30 to York Road (the Harrison/Pottawattamie County Line). <b>on the south</b> from Grover Avenue west following York Road and the County Line to the Missouri River. <b>on the west</b> from the County Line following the Missouri River north to U.S. Highway 30. This includes the DeSoto National Wildlife Refuge (NWR).	County Roads east and north to U.S. Highway 30. East on U.S. Highway 30 to Denison.
11	<b>In Harrison County, an area bounded:</b> <b>on the north</b> by and on a line with 280th Street east from the Missouri River to Green Avenue. <b>on the east</b> by 280th Street south on a line with Green and Grover Avenue to U.S. Highway 30. <b>on the south</b> by U.S. Highway 30 from Grover Avenue west to the Missouri River. <b>on the west</b> by the Missouri River from U.S. Highway 30 north to a line with 280th Street.	County Roads north and east to Interstate 29, north on Interstate 29 to State Highway 127, east on State Highway 127 to U.S. Highway 30, (in Logan) east on U.S. Highway 30 to Denison.
12	<b>In Harrison County, an area bounded:</b> <b>on the north</b> on a line with 235th Street from the Missouri River east to Garland Avenue. <b>on the east</b> by Garland Avenue from 235th Street south to 250th Street, east on 250th Street to Hamlin Avenue, south on Hamlin Avenue to 270th Street, east on 270th Street to Houston Avenue, south on Houston Avenue to 280th Street. <b>on the south</b> by and on a line with 280th Street from Houston Avenue west to the Missouri River. <b>on the west</b> by the Missouri River on a line with 280th Street north to a line with 235th Street.	County Roads north and east to Loess Hills Trail, north on Loess Hills Trail to State Highway 127, east on State Highway 127 to U.S. Highway 30, (in Logan) east on U.S. Highway 30 to Denison.
13	<b>In Harrison County, an area bounded:</b> <b>on the north</b> by 270th Street east from Houston Avenue to Loess Hills Trail. <b>on the east</b> by Loess Hills Trail from 270th Street south to and including the entire City of Missouri Valley, continuing south along Loess Hills Trail to York Road. <b>on the south</b> by the Harrison/Pottawattamie County Line (York Road) from Loess Hills Trail west to Grover Avenue. <b>on the west</b> by Grover Avenue north from York Road to and on a line with Green Avenue to 280th Street, east on 280th Street to Houston Avenue, north on Houston Avenue to 270th Street.	County Roads north and east to U.S. Highway 30, U.S. Highway 30 east to Denison. <b>or</b> , County Roads east to Loess Hills Trail, north on Loess Hills Trail to State Highway 127, east on State Highway 127 to U.S. Highway 30, (in Logan) east on U.S. Highway 30 to Denison.
14	<b>In Pottawattamie County, an area bounded:</b> <b>on the north</b> by the Harrison/Pottawattamie County Line (York Road) from the Missouri River east to Old Lincoln Highway. <b>on the east</b> , by Old Lincoln Highway from York Road (the County Line) south to Whistle Lane, west on Whistle Lane to Interstate 29, south on Interstate 29 from Whistle Lane to Rosewood Road including the community of Loveland. <b>on the south</b> by and on a line with Rosewood Road from Interstate 29 west to the Missouri River. <b>on the west</b> by the Missouri River from a line with Rosewood Road north to the County Line. This includes Wilson Island State Park.	County Roads north and east to the Loveland Interstate 29 interchange, south on Interstate 29 to Interstate 680 east, east on Interstate 680 to U.S. Highway 59, north on U.S. Highway 59 to Denison.

## Preparing for an Emergency

Being ready for an emergency will enable you to respond safely and quickly should one occur. Here are a few things you can do to prepare.

- Read this brochure carefully and make sure your family understands what to do if an emergency occurs.
- Determine the sub area in which you live and note your designated evacuation route.
- If you think you might need transportation in the event of an evacuation, see if a neighbor will be able to give you a ride.
- As a backup, check the "People with Functional Needs" section for information concerning transportation.
- For official and the most current information and to ensure your safety, follow the recommendations of state and local officials as broadcast on Emergency Alert System radio and TV stations.

**Please register at your assigned registration center even if you do not require food, housing or other assistance. This will assist officials and family members in locating you.**

**Registration centers are listed in the green section on the reverse.**

You may wish to make advance arrangements now with a friend or relative.

- Keep extra batteries on hand for your flashlight and radio.
- Keep an extra set of car keys handy.
- Place this brochure in a convenient location, where it will be readily available in the event of an emergency.