



Emergency Support Function 11 Agriculture and Natural Resources

- ESF Coordinator:** Mills County Emergency Management Agency
- Primary Agencies:** Mills County Department of Public Health / Environmental Health
Mills County Emergency Management Agency
- Support Agencies:** Mills County Conservation
Mills County Emergency Services Association (MCESA)
Mills County Sheriff's Department / Glenwood Police Dept.
Mills County Veterinarians
Municipal Parks Departments
Local and Voluntary Agencies and Private Businesses
Iowa Department of Natural Resources
Iowa State University Extension Service
Iowa Department of Agriculture and Land Stewardship

I. INTRODUCTION

- A. Purpose
Emergency Support Function 11 (ESF-11), Agriculture and Natural Resources, coordinates efforts before, during, and after an emergency or disaster of countywide significance that address:
1. Protection against an outbreak of a highly contagious or economically devastating animal (including zoonotic) or plant/tree disease.
 2. Assurance of food safety and security.
 3. Care of domestic large and small livestock.
- B. Scope
The primary functions of ESF-11, Agriculture and Natural Resources, are to:
1. Implement the local response to an outbreak of a highly contagious animal disease, an outbreak of highly infective plant/tree disease, or an economically devastating infestation of plants or animals.
 2. Assure the safety and security of the commercial food supply by assisting state officials with investigating, testing, and analyzing the potential adulteration of products and implementing a local response.
 3. Coordinate actions to prevent the loss of livestock due to a disaster or emergency and to properly dispose of animal carcasses if necessary.

II. POLICIES

- A. Each individual, family, worker, visitor, business, organization and institution within the County is responsible for emergency planning for a minimum of three days of self-sufficiency of both food and water, along with general emergency preparedness. These preparations are for both human and animal populations. More information is contained in ESF-6 Mass Care.

- B. ESF-11, Agriculture and Natural Resources, follows the Incident Command System (ICS)/National Incident Management System (NIMS).
- C. This ESF coordinates the emergency response of multiple agencies and organizations. As a result, it is impossible to list all precepts (regulations, policies, and procedures) that regulate the specific operations. Each primary and support agency or organization in this ESF is responsible to develop realistic and manageable precepts specific to its respective emergency operations.
- D. In an agricultural emergency, the priority will remain the protection of the health and safety of citizens. Incident Command will assist as much as possible with the animal/plant issues. It is essential that animal owners remain responsible and accountable for their livestock.
- E. In the event of an emergency or disaster of countywide significance, primary and support agencies will utilize their staff and volunteers to their attained level of training and ensure appropriate measures are in place to protect the health and safety of all workers.

III. CONCEPT OF OPERATIONS

- A. General
 - 1. In an agricultural related incident, local Incident Command System (ICS) structure is intact and should expect to incorporate subject matter experts from state and/or federal agencies as the incident develops either by invitation or by statutory authority.
 - a. In a foreign animal disease outbreak or agricultural disaster unrelated to a countywide disaster or emergency, state authorities will hold the role of Incident Command with local resources supporting such incident.
 - b. Agricultural impacts of a countywide disaster or emergency will render that aspect being managed under local Incident Command with state authorities having operational responsibility for that component.
 - 2. Incident Command and the emergency operations center, as needed, will organize and coordinate the capabilities and resources of county government, municipalities, private organizations, and the private sector to facilitate the delivery of services, technical assistance, expertise, and support for emergency operations within this ESF.
 - 3. Upon a local disaster declaration, the Mills County Board of Supervisors or appropriate state authority may invoke temporary controls on local public sector resources and travel to initially contain the spread of infectious disease. Iowa Department of Agriculture and Land Stewardship (IDALS) will exercise their authority to stop animal movement if and when necessary.
 - 4. The Mills County Fairgrounds or other suitable structure with adequate resources may serve as a temporary boarding facility for production and/or domestic livestock as indicated.

B. Organization

1. Contaminated Food Supplies: Mills County Public Health is the lead agency for coordinating local response to contaminated or suspected contaminated food supplies until such time that the Mills County Emergency Operations Center (EOC) requests additional local, state and federal resources.
 - a. Those incidents specific to agricultural products in storage or in the field will render IDALS as the IC, supported by local public health and emergency management as the county coordinating authorities.
2. Zoonotic Events: Mills County Department of Public Health is the lead agency for coordinating local response to zoonotic events. If a significant outbreak of an infectious disease in domesticated livestock or an exotic plant pest is suspected, then a request will be made to IDALS to provide a subject matter expert to the local incident command system to incorporate state resources into the local response and to advise local response actions.
3. Foreign Animal Disease Outbreak: Emergency Management is the lead for a foreign animal disease outbreak and would request IDALS to provide a subject matter expert to the EOC and incorporate state resources into the local response to an outbreak of a countywide significance of infectious disease in domesticated livestock or an exotic plant pest.
4. Non-Domesticated Animal Disease/Plant Infestation: Mills County Emergency Management, in cooperation with Mills County Conservation, would be designated as local IC with the Iowa Department of Natural Resources (DNR) and/or IDALS as operational lead (as appropriate) in response to an outbreak of a non-domesticated animal disease or plant infestation of countywide significance.
5. Incident Command may request local veterinarians to provide technical assistance and volunteer support to primary agencies in this effort.

C. Procedures

1. Each organization under this ESF will follow its internal standard operating procedures when responding to an incident. When appropriate, agencies will assign a representative to the EOC.
2. When the Incident Commander determines that local resources are exhausted, the EOC will coordinate the request for additional resources through IMAC, other mutual aid compacts, and then to the state through HSEMD.

D. Phases of Emergency Management

1. Mitigation and Preparedness Activities
 - a. Maintain an inventory of available resources including trained personnel.
 - b. Develop and maintain standard operating procedures for emergency and disaster situations.
 - c. Assure the training of personnel and volunteers in their emergency responsibilities.

2. Response and Recovery Activities
 - a. Provide a senior official to operate from the EOC or other command location to assure coordination with other agencies, as necessary.
 - b. Coordinate emergency planning activities and information with neighboring jurisdictions and the EOC.
 - c. Personnel providing emergency assistance will maintain chain of command in accordance with the National Incident Management Systems (NIMS) procedures and protocols and work within the Incident Command System (ICS).
 - d. Maintain records and document all expenditures during the emergency or disaster.

IV. RESPONSIBILITIES

- A. Mills County Public Health / Environmental Health
 1. Determine the impact of the present contaminated food supplies and zoonotic outbreak, and begin action planning with appropriate stakeholders and partners.
 2. Detect and monitor the event.
 3. Determine the locally affected boundaries. This includes securement of local water supplies. Examples include reservoirs Pony Creek, Mile Hill, Willow Slough, Forney Lake, Folsom Lake area, Keg Creek Lake, Motorplex Speedway pond (Eaton Ditch and 2 others), Glenwood Lake, and the new large pond on Hammond Ave, west of I-29. Rivers include West Nishnabotna River, Silver Creek, and Missouri River.
 4. Provide guidance for immediate protective action within the affected area and report, maintain liaison with state and/or federal agencies.
 5. Draft citizen advisories for affected areas and provide information to the JIC.
 6. Advise the EOC of health hazards.
 7. Conduct mass inoculation or medication distribution when indicated per ESF-8, Public Health and Medical Services.
 8. Cooperate with others to recover and restore natural and cultural resources.
- B. Mills County Emergency Management Agency
 1. Determine the impact of the present FADS outbreak, plant infestation, non-domesticated animal disease outbreak.
 2. Detect and monitor the event.
 3. Determine the locally affected boundaries.
 4. Manage the county emergency operations center.
 5. Provide the liaison between the Incident Command Post and external agencies to coordinate for additional resources when required.
 6. Be a key player regarding response actions to recover and restore natural and cultural resources.
- C. Mills County Conservation
 1. Detect and monitor tree diseases and pests.
 2. Determine the locally affected boundaries of disease or pest infestations.
 3. Provide guidance for immediate protective action within the County and report and maintain liaison with state and/or federal agencies.
 4. Ensure continued contact with private, state, and federal forestry landowners.

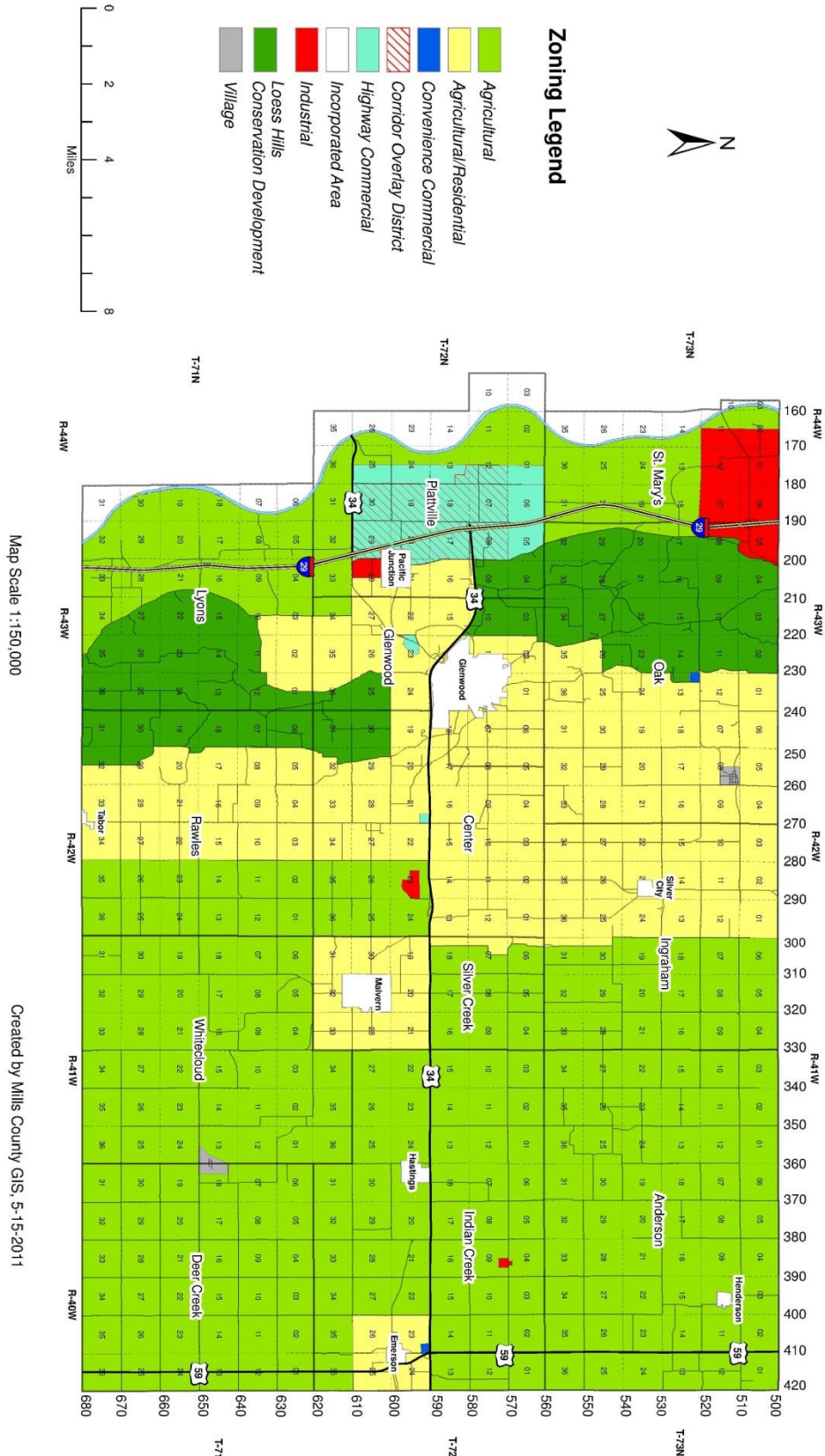
- 5. Make recommendations on protective action.
 - 6. Advise the EOC of health hazards. The EOC will forward all health-related information to the Mills County Department of Public Health.
- D. Mills County Emergency Services Association
Provide support to any decontamination activities and support quarantine/security missions as requested.
 - E. Mills County Sheriff's Department / Glenwood Police Dept.
Provide support to any quarantine activities and support any security requirements within the limits of their capabilities.
 - F. Local and Voluntary Agencies and Private Businesses
Provide services in accordance with their individual capabilities and the defined requirements of the situation.
 - G. Iowa Department of Agriculture and Land Stewardship (IDALS)
Provide assets, resources and coordination with external agencies to an outbreak of a countywide significance of infectious disease in domesticated livestock or an exotic plant pest.
 - H. Iowa Department of Natural Resources
Provide assets, resources and coordination with external agencies to an outbreak of a countywide significance of infectious disease in non-domesticated animals or infestation.
- V. ATTACHMENTS**
- ESF Attachment 11a. Emergency Response Checklist
 - ESF Attachment 11b. Mills County Land Use Maps
 - ESF Attachment 11c. Mills County Historical Registry List
 - ESF Attachment 11d. Mills County list of Agriculture and Natural Resources Contacts
 - ESF Attachment 11e. Sample Forms and Logs
- VI. ESF REFERENCE DOCUMENTS (FOUND IN BASIC PLAN)**
- ESF Reference Doc 7.1 Resource Lists (Address, Phone, Email, etc)
 - ESF Reference Doc 11.1 Iowa Department of Agriculture and Land Stewardship (IDALS)
Foot & Mouth Plan
 - ESF Reference Doc 11.2 Iowa Department of Agriculture and Land Stewardship (IDALS)
Agriculture Movement and Control Plan

ESF Attachment 11a.

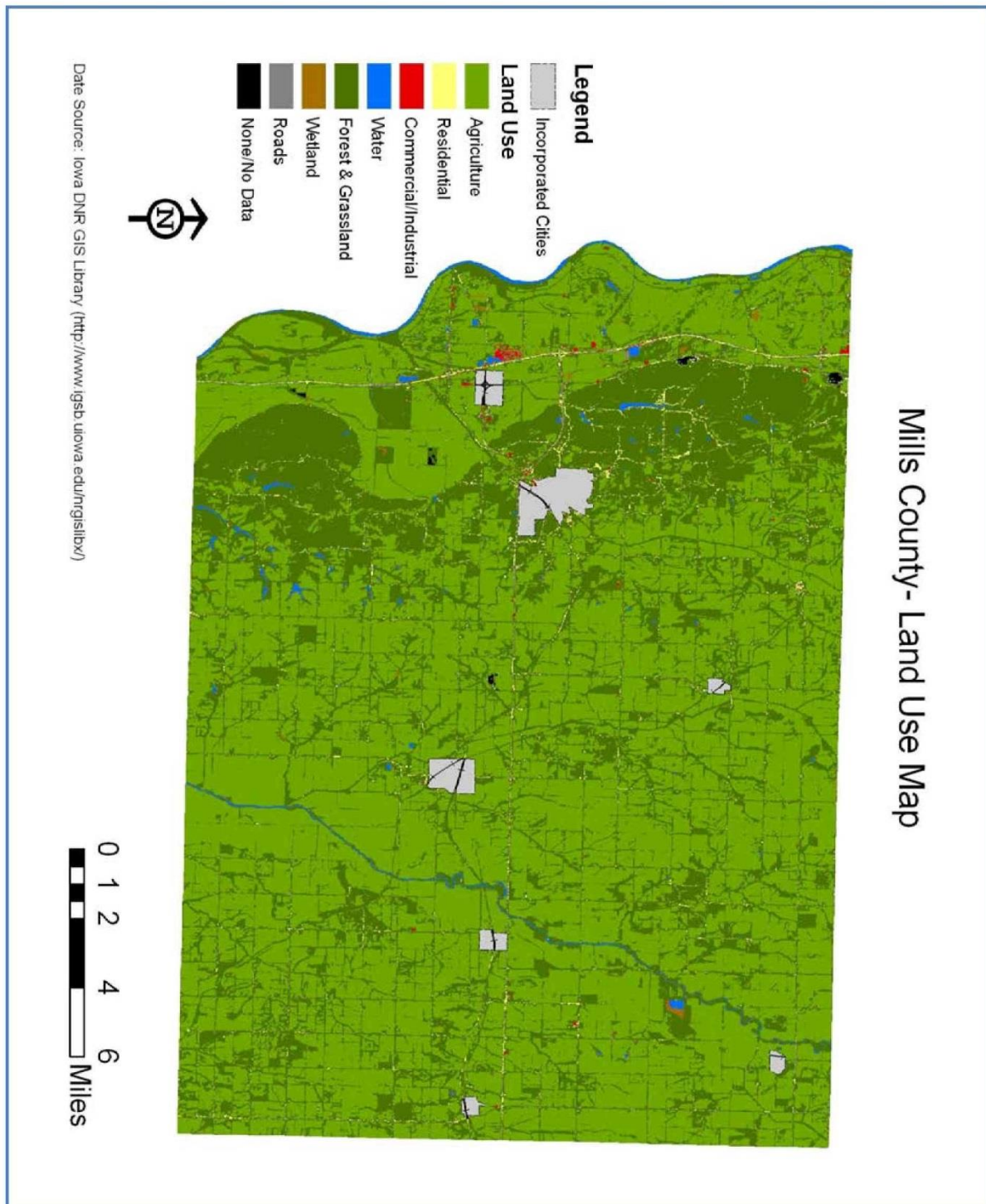
Emergency Response Checklist – Agriculture and Natural Resources

Emergency Response Checklist – Agriculture & Natural Resources	
Emergency Management Phase	Actions
<u>Mitigation</u> Activities designed to prevent or lessen the effects of a hazard.	___ Provide surveillance for a foreign animal disease or an animal borne poison or toxin that may pose a threat to the animal industries, the economy or public health. ___ Provide for surveillance of plant pests of unknown or questionable origin that may pose a potential threat to agriculture, horticulture, the economy or public health.
<u>Preparedness</u> Activities designed to improve Readiness capabilities.	___ Develop standard operating guides and checklists to support ESF #11 activities. ___ Identify local agribusiness operators with equipment and personnel to assist with animal stop movement and quarantine activities. ___ Develop mutual aid agreements with government agencies, professional associations and private agencies and organizations with personnel and equipment to support ESF #11 activities. ___ Conduct and participate in training to support the implementation of ESF #11. ___ Participate in and/or conduct drills and exercises.
<u>Response</u> Activities designed to save lives, protect property and contain the effects of an event.	___ Support the disaster response and recovery with all available resources. ___ Restrict movement, detain or move animals, equipment, products and personnel as necessary to control and eradicate animal or plant disease. ___ Manage and direct evacuation of animals from risk areas and provide technical assistance to prevent animal injury and the spread of disease. ___ Provide and/or receive appropriate mutual aid. ___ Secure supplies, equipment, personnel and technical assistance from support agencies, organizations and other resources to carry out the response plans associated with animal health or any act of agro-terrorism.
<u>Recovery</u> Activities designed to ensure continued public safety and return the community to pre-disaster levels.	___ Continue to support disaster operations as needed. ___ Restore equipment and restock supplies to normal state of readiness. ___ Participate in after action reports and meetings. ___ Make changes to plans and procedures based on lessons learned.

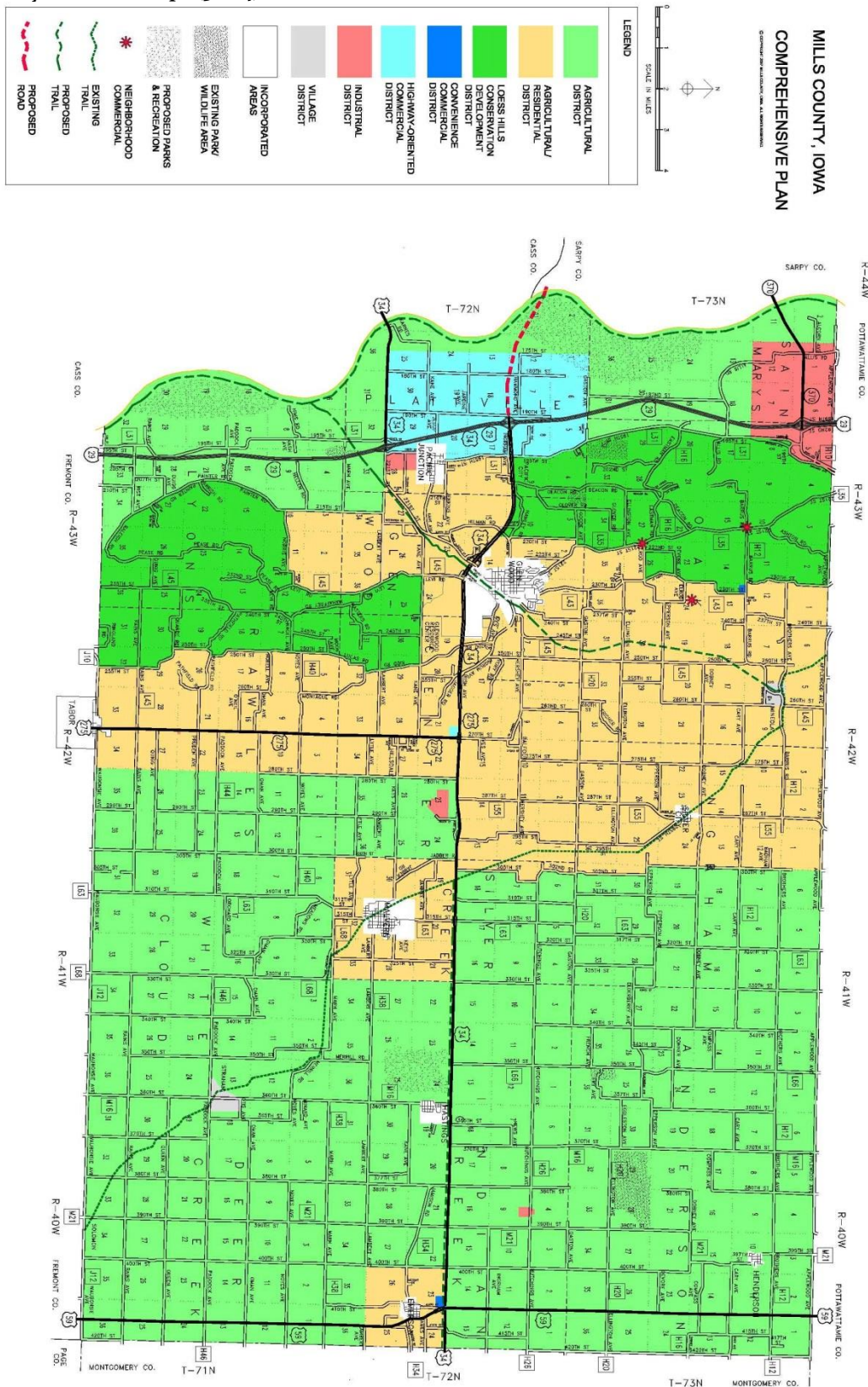
ESF Attachment 11b.
Mills County Land Use Maps (1 of 4)



ESF Attachment 11b.
Mills County Land Use Maps (2 of 4)

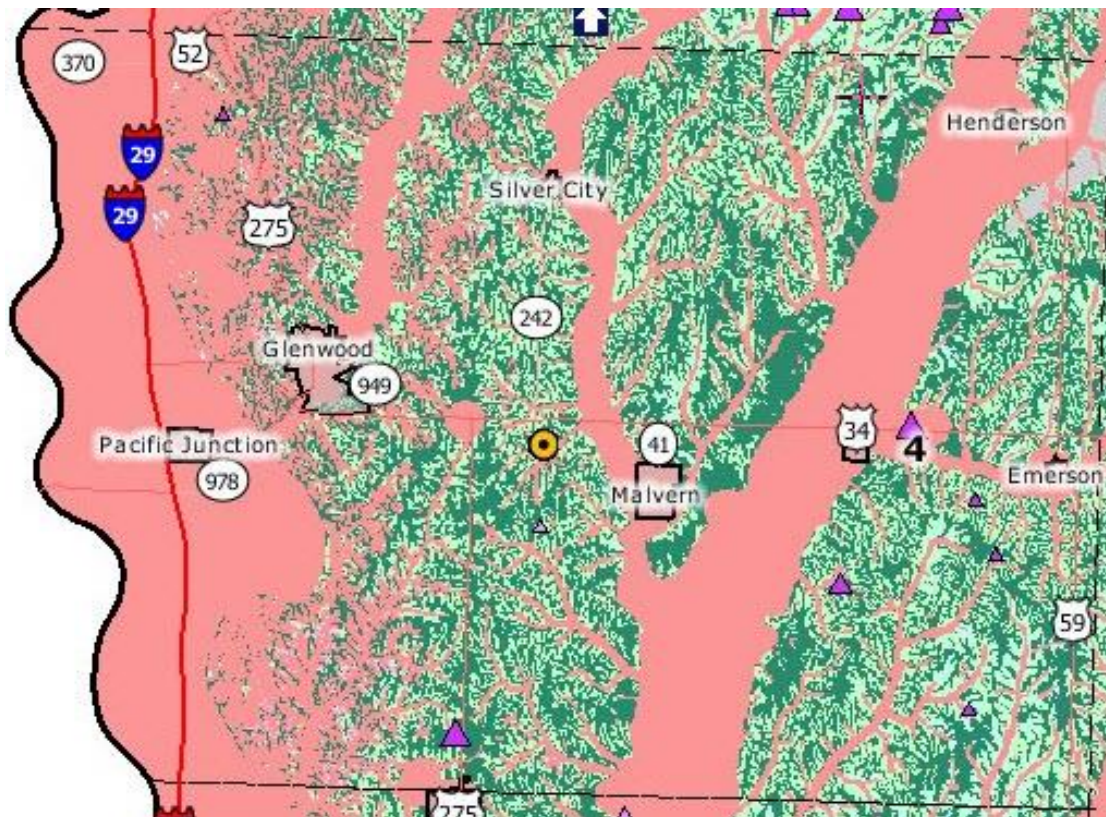


ESF Attachment 11b.
Mills County Land Use Maps (3 of 4)



ESF Attachment 11b.
Mills County Land Use Maps (4 of 4)

Mills County Livestock Burial Zones (Iowa DNR)



Burial Zones (Full Color)

-  No Restrictions
-  High Water Table (less than) 6 Ft Down
-  Bedrock (less than) 25 Ft Down
-  9% - 14% Slopes
-  Public Lands
-  Upland Drainages
-  Wetland Reserves
-  Restricted

Open Feedlot Municipal Landfills



**ESF Attachment 11c.
Mills County List of Historical Registry**

Taken from Page 4 of the Mills County Multi-Jurisdictional Pre-Disaster Mitigation Plan:

1. Mills County is home to a variety of historical sites. The City of Tabor, which lies partly in Mills County, is the location of a once important station on the Underground Railroad as well as the home of Rev. John Todd who harbored the abolitionist John Brown. The Todd house is preserved and now serves as a museum.
2. Pacific Junction in western Mills County is the junction for Burlington Railroad lines from Denver to Chicago and Kansas City to Council Bluffs.

ESF Attachment 11d.**Mills County list of Agriculture and Natural Resources Contacts****Suppliers:**

No major Ag Supplies noted in Mills County.

Services / Contracts:

No major Ag/Natural Resources Contracts noted in Mills County.

Equipment:

Mark Hughes Construction (712) 527-1000
410 South Locust, Glenwood, Iowa

Evans Equipment Company (712) 527-1440
1305 S Locust, Glenwood, Iowa

Pinnacle Construction, Inc. (712) 527-9745
22060 S 221st Street, Glenwood, Iowa

Equipment Operators:

Mark Hughes Construction (712) 527-1000
410 South Locust, Glenwood, Iowa

Location of Livestock Feeders:

No Livestock Feeders noted in Mills County.

Location of Underground Utilities:

See Map in ESF 12.3.

Location of Water Supplies:

Reservoirs: Pony Creek Lake (41.072, -95.792) Pony Creek Association wells,
“Site 30” (Intersection of Deacon and Glover Road) (41.055, -95.786),
Mile Hill Lake (41.046, -95.784), Willow Slough (41.098, -95.462),
Forney Lake (40.892, -95.801),
Folsom Lake area (41.075, -95.822) and (41.085, -95.823),
Keg Creek Lake (40.985, -95.803),
Hammond Ave. west large pond (41.048, -95.838),
Motorplex / PJ Lakes (Eaton Ditch and 2 others) (41.018, -95.814).

Rivers:

West Nishnabotna River (41.160, -95.442 to 40.902, -95.578),
Silver Creek (41.160, -95.601 to 40.942, -95.566),
Keg Creek (41.160, -95.692, 40.974, -95.827),
Pony Creek (41.131, -95.758 to 41.055, -95.786),
Missouri River (41.160, -95.881 to 40.902, -95.813).

Location of Packing Plants or Utilities:

No Packing Plants noted in Mills County.

Location of Markets:

Glenwood and Silver City have Farmers Markets.

List of Watersheds:**Taken from Page 12-13 of the Mills County Multi-Jurisdictional Pre-Disaster Mitigation Plan:**

There are three EPA designated watersheds in Mills County. These watersheds are:

West Nishnabotna (10240002) – The total watershed area is 725.7 square miles. The primary river within the watershed is the West Nishnabotna River, which flows west of Hastings and Henderson and east of Malvern on its route through the county from north to south. The watershed includes: 64 lakes, 16 rivers and streams, 2,223.6 total river miles, and 819.5 perennial river miles. This watershed covers over half of the county's land area.

Keg-Weeping Water (10240001) – This watershed is 1,565.4 acres. The primary waterways within the Mills County portion of the watershed are Keg Creek, Pony Creek, and Silver Creek. The watershed also includes: 67 lakes and 7 rivers and streams. Nearly half of the county is located within this watershed.

Big Papillion-Mosquito (10230006) – This Watershed is 5,412.2 acres. The watershed also includes: 112 lakes and rivers and streams. Only a small area northwest of Glenwood is located within this watershed.

ESF Attachment 11e.
Agriculture and Natural Resources – Sample Forms and Logs

In process....