Marshall County Rural Development Site Analysis

A Study by First District Association of Local Governments

Funded by the South Dakota Value Added Agriculture Subfund

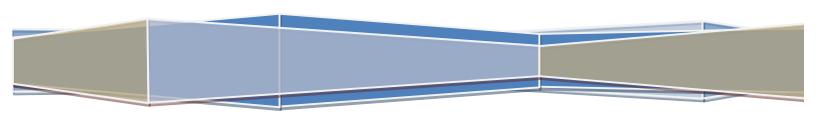




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SUMMARY

As part of the South Dakota Department of Agriculture's (SDDA) efforts to enhance economic development opportunities and better support local control of development, the County Site Analysis Program (Program) was developed in the summer of 2013. The Program assists participating counties in identifying potential rural properties with site development opportunities. The analysis and subsequent report will provide local leaders with information and research-based resources to foster well informed decisions regarding the future of their respective regions. It also helps identify and plan for potential challenges that may arise should those opportunities be pursued.

In implementing the Program, SDDA is working closely with South Dakota's Planning and Development Districts. The First District Association of Local Governments (First District) and Planning and Development District III (District III) developed a methodology for a feasibility analysis that focuses on identifying locations for rural economic development. The methodology addresses the feasibility of locations for the development of concentrated animal feeding operations, agricultural processing and storage facilities, and other agriculturally-related commercial/industrial development. The analysis took into consideration local zoning and State permitting requirements along with the availability of infrastructure necessary to accommodate certain rural economic development projects.

Utilizing Geographic Information System (GIS) technology, the First District identified <u>128</u> sites within Marshall County that met the minimum site assessment standards of the concentrated animal feeding operations (CAFO) analysis and <u>113</u> sites that met the minimum standards of the Agriculturally-related Industrial Development (AID) analysis. These sites complied with local zoning ordinances and were in close proximity to infrastructure necessary to support the previously identified economic development activities.

Identifying and evaluating potential sites for development is the first step in planning for economic development in rural Marshall County. While this report focuses on the <u>241</u> specific sites (128 CAFO, 113 AID) matching the site assessment criteria standards, it became apparent each site also possesses its own unique set of site characteristics which present both advantages and constraints. There were many other sites in the county which complied with the county's zoning regulations but lacked the necessary infrastructure. Upgrading infrastructure identified as necessary to support rural economic development projects may increase the number of sites within the county possessing potential for development.

Infrastructure needs for CAFOs vary dependent upon species as the needs of AID projects also vary. Minimum thresholds for each criterion were utilized to establish the "Best" classification of sites. Those sites designated as "Best" sites were those not limited by any of the criteria considered. Sites not meeting the minimum criteria required of the "Best" sites were subsequently identified as "Good" or "Better". Sites may not be suitable for all CAFO and AID developments but may be limited to specific operations due to conditions limiting the site's development potential. An example of limiting conditions could be the availability of water volume at an identified CAFO site. Water demand for a 3,000 head dairy is approximately five times greater than the needs of a 5,000 head sow operation even though each operation is in excess of 2,000 animal units and will be subject to the same zoning regulations. Therefore, a 5,000 head sow operation may be located upon a site classified as "Good" or "Better" if the limiting factor was water availability.

The analysis found that the primary limiting factor in reviewing the development potential of properties within Marshall County for a "Better" or "Best" CAFO site development is the availability of quality potable water. The same is true with agriculturally-related industrial developments which also require a reliable source of high quality and quantity of water. Access to a centralized water source such as rural water was a key criterion in the site analysis process. While access to rural water quality water was identified as an impediment, the rural water systems noted that if a significant water user would locate in the county; they would explore ways to provide water to the proposed development. Therefore, the analysis does not make the claim that the only sites for CAFO/AID development in Marshall County be relegated to the specific sites identified herein.

In addition to the availability of quality potable water, additional limiting factors such as access to County and State road networks, 3-Phase power, rail, and the county's existing CAFO setback requirements limited the number of potential AID and CAFO sites.

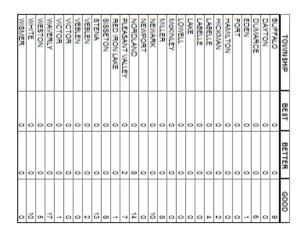
The site assessment process was limited in scope to include undeveloped parcels and did not consider expansion of existing CAFOs or commercial/industrial uses. In addition to this limited scope, minimum values were utilized in ranking each site with regards to zoning requirements and infrastructure demands. No attempt was made to rank each site within the three identified classifications. The uniqueness of each criterion identified in Table 1 warrants a comprehensive review of the potential impact each may have upon a subject property. This study is intended as the first step of a multi-faceted development process potentially leading to more specific site evaluations such as Phase 1 Environmental Assessments, engineering plans, development cost analysis, etc.

Identification of each site's relative advantages and constraints provides decision-makers with useful information for assessing the development potential of each site. The information contained herein has the potential to streamline the marketing process thereby reducing timelines, financial expenditures and labor costs. Local governments, landowners, economic development groups and state agencies such as the Department of Agriculture or Governor's Office of Economic Development all benefit from the rural site development analysis. These entities now have access to a marketing tool based on proactive planning efforts. In addition, the report may assist local governments in updating their comprehensive plans, zoning ordinances and permitting procedures while also increasing local awareness of potential development opportunities. The findings of this report will assist in determining the potential role each site may play in supporting economic development and should be considered when planning for future projects within Marshall County.

The remainder of the report has been divided into two sections. Section 1 provides an overview of the criteria utilized as part of the Rural Site Development Analysis while Section 2 explains the methodology incorporated into the review phase and identifies the "Good", "Better", and "Best" hierarchy.

As previously mentioned, there were <u>128</u> sites within Marshall County which met the minimum standards for inclusion as potential Concentrated Animal Feeding Operation (CAFO) sites and <u>113</u> sites met the minimum standards for agriculturally-related industrial development (AID) site analysis. The following map provides information at a township level regarding the number of "Good", "Better" and "Best" CAFO sites.

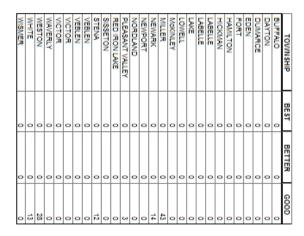
















SECTION 1: SITE ASSESSMENT CRITERIA

Marshall County Location Map



The analysis methodology developed for this study utilized an established set of criteria deemed critical to further development of the subject properties while specifically addressing the suitability of a site for either a CAFO or an AID.

Sites possessing all of the criteria identified as critical within the analysis will be those most sought by potential developers. The occurrence of these sites may be somewhat rare. Therefore sites under consideration for either a CAFO or AID may meet the majority of criteria. but will be lacking in several specific areas. Any sites not meeting all the criteria may be burdened with a limitation thus requiring more specific analysis. In these cases, the feasibility of developing the site is highly dependent upon the identified limitation(s). Earlier, an example of a potential site limitation was discussed regarding the demand for water. In that situation, the lack of water in the volume necessary for a dairy lent the site to be more likely developed as a swine facility. This example did not explore potential alternatives to the water shortage. The absence of adequate rural water volume at the site may require upsizing of the water infrastructure or securing an alternative water source. All of which hold the potential to mitigate this constraint thereby facilitating the proposed development. In other cases, however, failure to meet certain criteria, such as access to a quality road network, may result in a situation where development of the site becomes economically unfeasible. The site assessment criteria, depending upon whether or not the site is for a CAFO or AID project, have been divided into three major categories to include:

LAND USE REGULATIONS

- a. Alignment with Local and Regional Plans
- b. Compliance with Local Zoning Regulations
- c. Minimum Lot Area

I. ENVIRONMENTAL

a. Potential Environmental Constraints - Aquifer

II. INFRASTRUCTURE

- a. Water Supply
- b. Electrical Supply
- c. Transportation Networks Access to State and/or County Roads and Rail

LAND USE REGULATIONS

Economic development planning in Marshall County must be conducted in concert with the county's overall economic development goals. All development activities, including those specifically related to agriculture need to be accomplished within the parameters set forth in local and regional planning documents Land use or development guidance is traditionally provided via local documents such as Comprehensive Plans, Zoning Ordinances, Policies, Mission Statements and other local economic development plans and initiatives.

Comprehensive Land Use Plan

Marshall County's most recent Comprehensive Plan was developed in 1995. The plan does not specifically address the need for an adequate supply of animal agricultural development. Further the plan provides the following policies regarding only addresses the following commercial and industrial development.

Commercial/Industrial Land Use Policies

- Commercial development shall be controlled and guided to minimize adverse influences on adjacent roads or land values. Existing commercial uses shall be encouraged to locate in functionally designed centers with safe and adequate highway access.
- The plan recommends the general limiting of additional commercial uses within the County to those areas immediately adjacent to the communities, or at intersections of major highways, or at logical locations to facilitate the lake developments.
- Industrial areas should be functionally related to the transportation system..... At best, industries should be grouped and located so that they may be adequately served by major utilities.

Zoning

Ideally, economic developers seek sites that are zoned and eligible for specific uses. The need to pursue a zoning change or conditional use permit introduces an additional step in the development process that may increase development timeframes and costs. It also increases the uncertainty that the project can proceed given that zoning changes are referable and that a super majority vote of the County's Board of Adjustment is required for a conditional use permit.

The rural areas of Marshall County are reserved for agricultural uses. Even certain agricultural uses result in externalities which require case by case review. Concentrated animal feeding operations are one of those uses. The scope of agricultural operations has increased. In the same way grain farmers are choosing to spread their expenses over more acres to generate a small return over more acres, numerous livestock producers are choosing to accept smaller gains over larger numbers of animals to stay in business. Marshall County recognizes that a diverse agricultural industry, relying on cash crop and animal agriculture, promotes a sustainable, balanced agricultural economy. Concentrated animal feeding operations create local demand for crops grown in the area, provide fertilizer for surrounding land, and yield a raw product which is, in some cases, directly sold to local residents.

General CAFO Policies in the Marshall County Zoning Ordinance:

- Marshall County supports the creation and expansion of concentrated animal feeding operations in rural areas.
- All CAFOs are required to comply with applicable state and federal regulations.
- All manure spreading within Marshall County requires appropriate separation from property lines, rights-of-way, specific water features, and various different land uses.
- CAFOs of greater than 1,000 animal units should meet minimum requirements of the South Dakota DENR General Permit.
- Marshall County does not prohibit the location of a CAFO over the shallow aquifer within the ordinance but does consider depth of the aquifer in the site review and conditional use permit process.

Concentrated Animal Feeding Operation Setbacks

Marshall County utilizes graduated setback requirements based upon the size of the CAFO. For example, a 3,000 head dairy is required to observe a minimum setback of **3,080 feet** from established residences, schools, churches, businesses and public use areas. Regarding setbacks from municipalities, the same 3,000 head dairy would be required to meet a setback of **6,160.** A 3,000 head dairy would also be required to be set **500 feet** from lakes, rivers and streams considered fisheries. Further all CAFO's are **prohibited in a designated 100 year flood plain**. For the purpose of this analysis, setbacks were applied to all of the above with the exception of churches and schools as GIS data was not readily available. While it is possible that some of the sites identified in the analysis as good, better, or best may be impacted due to the possibility that a church or school is located within one-half mile of a proposed CAFO site, it is believed that the incidence is minimal. All **128** CAFO sites in the analysis are currently zoned

in Marshall County as agricultural and all or a portion of the legally described parcels, according to the best available data, further meet the required setback and lot area requirements.

Commercial/Industrial Development

There is very little commercial/industrial activity at the county level of a specific business district nature. Marshall County's commercial and industrial zoning are areas generally adjacent to county and state hard surface roads accommodating land uses not necessarily located within municipalities.

Joint Jurisdiction

Marshall County shares zoning jurisdiction with the City of Britton. While the CAFO setback from communities precludes the siting of a CAFO within the prescribed areas of joint jurisdiction, it is possible that with cooperation of a participating municipality, AID sites could be located within said areas of joint jurisdiction.

Buildable Parcel

One criterion deemed necessary to facilitate development of either a CAFO or an AID was land area. A parcel of 40 buildable acres was set as the minimum for consideration within the analysis. In order to be considered, the property must have consisted of 40 contiguous acres and able to support development upon all 40 acres. Parcels without 40 buildable acres were not considered in the final analysis.

ENVIRONMENTAL

The location of shallow aguifers in relation to potential development sites was included in the analysis. In reviewing shallow aguifers it is critical to note that they are included in the analysis for two distinct and very different reasons. Shallow aquifers may be utilized as a potential water source to support development. These same aguifers are also vulnerable to pollution due to their proximity to the surface and may be required to be protected via setbacks and development limitations. It should be noted that the preclusion of development sites over the shallow aguifer was initially determined to be a necessary critical element of the analysis based upon a number of South Dakota Counties with aquifer protection regulations combined with the common occurrence of protest activities observed at County Zoning Board meetings dealing with proposed CAFO/AID developments situated over the aquifer. Since there are no regulations which preclude CAFO or AID development over a shallow aguifer in Marshall County the standard of removing all sites over the shallow aguifer (used in similar County Site Analysis projects) was not utilized in the same manner for the Marshall County Analysis. This resulted in many of the 128 CAFO and 113 AID sites identified by the analysis being located over the shallow aguifer. It should also be noted that four (4) of the CAFO sites identified as "Better" could be classified as a "Best" site if they were not situated over the aquifer.

Prior to or contingent upon acquiring a parcel it is assumed other environmental factors potentially affecting the property would be addressed via a Phase I Environmental Assessment or similar process. It is recommended that developers consider undertaking such an inquiry prior to executing a major commitment to a particular location over a shallow aquifer.

INFRASTRUCTURE

The term infrastructure is broad though in the context of property development the term includes essential services such as water, sewer, electrical, telecommunications, and roads. With regards to the rural site analysis process; access to quality roads, electrical capacity and water supply were deemed essential and indentified as site selection criteria.

Transportation

Access to quality roads was identified as critical to determining the development potential of a parcel. The proximity of a potential development site to either a state or county road was established as one of the parameters in conducting the rural site analysis. In addition to utilizing the South Dakota Department of Transportation's road layer to identify roads and surface types, local experts were consulted to assist in identifying the road network. First District requested the Marshall County Highway Superintendent to identify segments of the county road system inadequate to support a CAFO or AID. Sites accessed only by township roads were eliminated from the CAFO analysis and all potential AID sites abutting non hard surfaced roads and located greater than one-half mile from a hard surface road were also eliminated from the analysis.

A potential development site's proximity to certain road types impacted its designation. Those parcels abutting hard surface roads were consistently ranked higher than those served by gravel roads. In reviewing CAFO sites, parcels adjacent to a county or state hard surface road were designated "Better" or "Best" for transportation resources. Parcels adjacent to county gravel roads were designated "Good". Regarding AID sites, parcels adjacent to a county or state hard surface road were designated "Best" and those parcels within one-half mile of a county or state hard surface road were designated "Good" or "Better".

Access to rail was also considered to be an important factor in locating an AID site. Parcels adjacent to rail were designated "Best". Parcels within one-half mile of rail were designated "Better" and those parcels within one mile of rail were designated "Good".

Electric Supply

Access to 3-phase power was designated as a site characteristics criterion for both CAFO and AID development. First District contacted Lake Region Electric Cooperative and Traverse Electric Cooperative to obtain the location and capacity of the 3-Phase infrastructure within the county. Lake Region Electric Cooperative is the primary provider of electricity in the rural area of the county. All parcels whether for CAFO or AID development adjacent to a 3-phase power line were designated "Best" for electricity resources. Whereas, parcels within one-half mile of a 3-phase power line were designated "Better" and those within 1 mile of a 3-phase power line were designated "Good".

Water Supply

The ability to secure information regarding rural water distribution networks and capacity proved to be the most complex and difficult component of the infrastructure analysis. Due to this complexity, water resources were evaluated differently than transportation and electric infrastructure. While transportation and electric infrastructure were classified based solely upon proximity to roads and 3-phase power, the analysis of rural water systems first required the evaluation of the water systems based upon each system's supply and distribution capacities.

Development sites were then were selected based upon the proximity to water service. The classifications with regards to water supply and their respective criteria are as follows:

1. "Best"

- a. CAFO If the rural water system had sufficient supply and distribution (104 gallons per minute for a CAFO see below) in a specific geographic area, that area was designated as "Best" for water resources.
- b. AID If the rural water system had sufficient supply and distribution (285 gallons per minute for an AID site see below) in a specific geographic area, that area was designated as "Best" for water resources.
- 2. "Better" In those geographic areas of the county where the rural water system had a sufficient supply of water but inadequate distribution lines, or vice versa.
- 3. "Good" In the event, the rural water system had neither supply nor distribution within a geographic area a "Good" designation was applied to those areas that were situated over or within 2 miles of a shallow aquifer.

Upon defining the ranking criteria these parameters were utilized to evaluate potential CAFO and AID sites within Marshall County. Potential CAFO development sites adjacent to a rural water system with the supply and distribution capacity of 104 gallons per minute were classified as "Best" for water resources. Parcels adjacent to a rural water system with the supply but not distribution capacity of 104 gallons per minute, or vice versa were classified as "Better". Any sites identified as "Good" for water resources required those parcels to lack a central water source and be located over or within 2 miles of a shallow aquifer.

Due to the varying demands of potential uses a separate set of criteria was utilized to rank potential AID sites. Parcels adjacent to a rural water system with the supply and distribution capacity of 285 gallons per minute were classified as "Best" for water resources. Any parcels adjacent to a rural water system with the supply but not distribution capacity of 285 gallons per minute, or vice versa were classified as "Better". Those sites ranked as "Good" included parcels which lacked a central water source and be located over or within 2 miles of a shallow aguifer.

The site analysis sought to address whether or not the rural water system serving the region had excess water treatment capacity (supply) and their ability to serve potential properties (distribution). In order to address the issue of supply each rural water system was requested to identify their surplus treatment capacity. In addition, each system was requested to notate on a map those geographic areas to which 104 gallons per minute could be accommodated as well as those areas where 20.8 gallons per minute could be supplied. These capacities are necessary to accommodate a 3,000 head dairy or 5,000 head sow operation, respectively. Food and animal processing facilities require an average of 285 gallons per minute therefore rural water providers were asked to note those areas where this volume is available.

As noted earlier in an effort to conduct the most accurate analysis, the First District contacted and requested location and capacity information from the two rural water providers within Marshall County. BDM Rural Water System is the primary rural water system for the entire county. WEB Water Development Association (WEB) provides water to a small area in the southeast corner of the county. WEB expressed limitations with both the capacity (supply) and necessary distribution infrastructure within their system necessary to meet the minimum

requirements of the analysis. While BDM stated that the system may have an adequate supply of water depending upon the actual location of a proposed CAFO or AID, BDM further noted that only portions of their system had the necessary distribution infrastructure to deliver the minimum requirements of the analysis. BDM identified 33 sections of land that could meet the minimum CAFO "Best" requirement of 104 gallons per minute. BDM also identified areas within the system that could not meet the minimum 104 gallon per minute without the system being evaluated by their engineer and/or improvements being made. It should be noted that there were four CAFO sites that met the water supply and distribution component, possibly making the site a "Best" site, but due to not meeting other minimum requirements of the analysis resulted in those four sites being designated "Better".

There were no locations within the BDM's distribution system that could accommodate the AID site "Best" requirement of 285 gallons per minute. However, BDM did identify 129 sections that could provide a source of water for AID sites requiring less than 20 gallons per minute. For these reasons, the analysis was unable to designate any AID development site as "Best" or "Better" in Marshall County.

SECTION 2: RESEARCH AND METHODOLOGY

This section describes the methodology utilized to evaluate the suitability of potential sites for either CAFO or AID development.

Step 1: Research on Site Characteristics

Based on the general site assessment criteria established in Section 1 of this report, specific site characteristics necessary for determining the suitability of a potential site were developed. Table 1 lists the criteria identified as being necessary in order to conduct analysis of the potential sites. Utilizing these criteria as a guide, a variety of research methods were employed to compile the GIS data sets used in the analysis. This included the examination of local, regional, and state planning documents and existing GIS data layers.

CAFO Criteria Ag-related Commercial/Industrial Criteria County Zoning Setback Requirements **Location of Communities** Location of Rural Residences & Communities **Existing Zoning Districts Existing Zoning Districts** Location of Shallow Aquifer Access to County and State Road Network Location of Shallow Aguifer Access to County and State Road Network Proximity to three-phase Electrical Supply Proximity to three-phase Electrical Supply Proximity to Water Supply Proximity to Water Supply Capacity of Water Supply Capacity of Water Supply Proximity to Rail Proximity to Municipality

Table 1: Site Characteristics Criteria

Step 2: Evaluation of Site Characteristics Criteria

After developing the data sets in Table 1, the analysis identified those site locations that:

- 1. Complied with zoning guidelines; and
- 2. Are in close proximity to infrastructure necessary to support either CAFO or AID development.

Concentrated Animal Feeding Operation (CAFO)

The GIS analysis removed all parcels within the county from consideration that:

- 1. Did not have direct access to either a county or state road network;
- 2. Were not within one mile of three phase electric power;
- 3. Did not meet the one-half mile setback from existing residences, churches, businesses and commercially zoned areas;
- 4. Did not meet the one-mile setback from municipalities; and
- 5. Did not contain a buildable footprint of at least forty (40) acres.

After applying the local zoning and buildable footprint requirements to each site, the availability of necessary infrastructure was incorporated into the analysis. The general location of available water, electric and road infrastructure was applied to the remaining sites to establish a good, better, and best hierarchy of potential development sites. It should be noted that since Marshall County does not have aquifer protection regulations, the analysis was changed from other "County Site Analysis" projects. The change allows for "Good" and "Better" CAFO sites to be located over the shallow aquifer. The result was the identification of 128 CAFO sites that fell into the design standards of one of the following three development standards:

Good Sites (118 sites) - Sites that were determined to be "Good" sites met the following criteria:

- Site is adjacent to any state or county hard surfaced road or county gravel road
- Site is within one mile of three phase power
- Site meets Marshall County concentrated animal feeding operation setback requirements
- Site is adjacent to rural water area designated BEST or BETTER, or located over a shallow aguifer or within 2 miles of a shallow aguifer (GOOD)
- Site may be located over the shallow aquifer
- Site contains 40 acres of developable ground

Better Sites (10 sites) - Sites that were determined to be "Better" sites met the following criteria:

- Site is adjacent to any state or county hard surfaced road
- Site is within one-half mile of three phase power
- Site meets Marshall County concentrated animal feeding operation setback requirements
- Site may be located over the shallow aguifer
- Site is adjacent to rural water area designated BEST or BETTER
- Site contains 40 acres of developable ground

Best Sites (0 sites) – Sites that were determined to be "Best" sites met the following criteria:

- Site is adjacent to any state or county hard surfaced road
- Site is adjacent to three phase power
- Site meets Marshall County concentrated animal feeding operation setback requirements
- Site is not located over the shallow aguifer
- Site is adjacent to rural water area designated as BEST
- Site contains 40 acres of developable ground

Agriculturally-related Industrial Development (AID)

The GIS analysis removed all parcels within the county from consideration that:

- 1. Were not within one half mile of a state or county hard surfaced road;
- 2. Were not within one mile of three phase electric power;
- 3. Were not within one mile of rail;
- 4. Were within \(\frac{1}{4} \) mile of a community of less than 1,000 people;
- 5. Were within ½ mile of community with more than 1,000 people;
- 6. Did not contain a buildable footprint of at least forty (40) acres.

After applying the locational criteria and buildable footprint requirements to each site, the availability of necessary infrastructure was incorporated into the analysis. The general location of available water, electricity, road, and rail infrastructure and the proximity to a municipality was applied to the remaining sites to establish a good, better, and best hierarchy of potential development sites. It should be noted that since Marshall County does not have aquifer protection regulations, the analysis was changed from other "County Site Analysis" projects. The change allows for "Good" "Better", and "Best" AID sites to be located over the shallow aquifer. The result was the identification of **113** AID sites that fell into the design standards of one of the following three development standards:

Good Sites (113 sites) - Sites that were determined to be "Good" sites met the following criteria:

- Site is within one-half mile of a state or county hard surfaced road
- Site is within one mile of three phase power
- Adjacent to rural water area designated BEST or BETTER, or located over a shallow aquifer or within 2 miles of a shallow aquifer (GOOD)
- Site contains 40 acres of developable ground
- Within one mile of rail
- Site may be located over the shallow aquifer

Better Sites (0 sites) – Sites that were determined to be "Better" sites met the following criteria:

- Site is within one-half mile of a state or county hard surfaced road
- Site is within one-half mile of three phase power
- Site is adjacent to rural water area designated BEST or BETTER
- Site contains 40 acres of developable ground
- Site is within one-half mile of rail
- Site may be located over the shallow aquifer
- Site is in the comprehensive land use plan identified for future commercial/industrial development but not yet appropriately zoned

Best Sites (0 sites) - Sites that were determined to be "Best" sites met the following criteria:

- Site is adjacent to a state or county hard surfaced road
- Site is adjacent to three phase power
- Site is adjacent to rural water area designated BEST
- Site contains 40 acres of developable ground
- Site may be located over the shallow aguifer
- Site is adiacent to rail
- Site is zoned for commercial/industrial development

Step 3: Site Development Recommendations

Based on the analysis, **128** sites were classified as Good, Better, or Best for CAFO development and **113** sites were classified as Good, Better, or Best for AID development (see Marshall County Potential CAFO and AID Development Site Maps).

While this study only identifies those sites that met the required locational criteria for the analysis, it should be noted that other sites within the county may be satisfactory for CAFO and AID development even if they are located on a township road or do not have necessary infrastructure (rail, water, power) within close proximity.

SECTION 3: CONTACT INFORMATION

First District Association of Local Governments

Executive Director: Todd Kays GIS Coordinator: Ryan Hartley

Phone: 605-882-5115

Northeast Council of Governments

Executive Director: Eric Senger

Phone: 605-626-2595

Marshall County

Director of Equalization & Zoning Administrator: Shannon Lee

Phone: 605-448-5291

Highway Superintendent: Dustin Hofland

Phone: (605) 448-2301

Rural Water Systems

BDM Rural Water System

David Wade

Phone: 605-448-5417

WEB Water Development Association

Steve Harper

Phone: 605-229-4749

Electric Providers

Lake Region Electric Cooperative General Manager: Tim McIntyre

Phone: 605-345-3379

Traverse Electric Cooperative Clayton Halverson 320-563-8616

Other Resources - Aquifer

First Occurrence of Aquifer Materials in Marshall County, South Dakota Department of Environment and Natural Resources Division of Financial and Technical Assistance Geological Survey Aquifer Materials Map 3 Anne R. Jensen, 2001

http://www.sdgs.usd.edu/pubs/pdf/AM-03 20010409.pdf