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**RULES and REGULATIONS**

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**Ground Water Management Area**

Effective July 1, 1998  
Revised January 1, 2005

And the

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**INTEGRATED MANAGEMENT PLAN**

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**For the  
Middle Republican  
Natural Resources District  
And The  
Nebraska Department of  
Natural Resources**

**Effective January 1, 2005**

Adopted November 9, 2004

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Ground Water Management Area

    - Adopted May 18, 1998

    Effective July 1, 1998

    Revised July 1, 1999

    Revised July 1, 2000

    Revised November 17, 2003

    Revised January 1, 2005

Hearing October 6, 2004

Integrated Management Plan

    Adopted November 9, 2004

    Effective January 1, 2005

Hearing October 6, 2004

## PREFACE

### **Legislative Intent.**

The Legislature finds that ownership of water is held by the state for the benefit of its citizens, that ground water is one of the most valuable natural resources in the state, and that an adequate supply of ground water is essential to the general welfare of the citizens of this state and to the present and future development of agriculture in the state. The Legislature recognizes its duty to define broad policy goals concerning the utilization and management of ground water and to ensure local implementation of those goals. The Legislature also finds that natural resources districts have the legal authority to regulate certain activities and, except as otherwise specifically provided by statute, as local entities are the preferred regulators of activities which may contribute to ground water depletion.

Every landowner shall be entitled to a reasonable and beneficial use of the ground water underlying his or her land subject to the provisions of Chapter 46, article 6, and the Nebraska Ground Water Management and Protection Act and the correlative rights of other landowners when the ground water supply is insufficient for all users. The Legislature determines that the goal shall be to extend ground water reservoir life to the greatest extent practicable consistent with beneficial use of the ground water and best management practices.

The Legislature further recognizes and declares that the management, protection, and conservation of ground water and the beneficial use thereof are essential to the economic prosperity and future well-being of the state and that the public interest demands procedures for the implementation of management practices to conserve and protect ground water supplies and to prevent the contamination or inefficient or improper use thereof.

The Legislature recognizes the need to provide for orderly management systems in areas where management of ground water is necessary to achieve locally determined ground water management objectives and where available data, evidence, or other information indicates that present or potential ground water conditions, including subirrigation conditions, require the designation of areas with special regulation of development and use.

The Legislature recognizes that ground water use or surface water use in one natural resources district may have adverse effects on water supplies in another district or in an adjoining state. The Legislature intends and expects that each natural resources district within which water use is causing external impacts will accept responsibility for ground water management in accordance with the Nebraska Ground Water Management and Protection Act in the same manner and to the same extent as if the conflicts between ground water use and surface water use were contained within the district.

### **Legislative Findings**

The Legislature finds that:

(a)(1) The management, conservation, and beneficial use of hydrologically connected ground water and surface water are essential to the continued economic prosperity and well-being of the state, including the present and future development of agriculture in the state;

(2) Hydrologically connected ground water and surface water may need to be managed differently from unconnected ground water and surface water in order to permit

equity among water users and to optimize the beneficial use of interrelated ground water and surface water supplies;

(3) Natural resources districts already have significant legal authority to regulate activities which contribute to declines in ground water levels and to nonpoint source contamination of ground water and are the preferred entities to regulate, through ground water management areas, ground water related activities which are contributing to or are, in the reasonably foreseeable future, likely to contribute to conflicts between ground water users and surface water appropriators or which may be necessary in order to resolve disputes over interstate compacts or decrees, or to carry out the provisions of other formal state contracts or agreements;

(4) The Department of Natural Resources is responsible for regulation of surface water resources and local surface water project sponsors are responsible for much of the structured irrigation utilizing surface water supplies, and these entities should be responsible for regulation of surface water related activities which contribute to such conflicts or provide opportunities for such dispute resolution;

(5) The department, following review and concurrence of need by the Interrelated Water Review Committee of the Nebraska Natural Resources Commission, should also be given authority to regulate ground water related activities to mitigate or eliminate disputes over interstate compacts or decrees or difficulties in carrying out the provisions of other formal state contracts or agreements if natural resources districts do not utilize their ground water management authority in a reasonable manner to prevent or minimize such disputes or difficulties; and

(6) All involved natural resources districts, the department, and surface water project sponsors should cooperate and collaborate on the identification and implementation of management solutions to such conflicts or provide opportunities for mitigation or elimination of such disputes or difficulties

(b)(1) The levels of nitrate nitrogen and other contaminants in ground water in certain areas of the state are increasing;

(2) Long-term solutions should be implemented and efforts should be made to prevent the levels of ground water contaminants from becoming too high and to reduce high levels sufficiently to eliminate health hazards;

(3) Agriculture has been very productive and should continue to be an important industry to the State of Nebraska;

(4) Natural resources districts have the legal authority to regulate certain activities and, as local entities, are the preferred regulators of activities which may contribute to ground water contamination in both urban and rural areas;

(5) The Department of Environmental Quality should be given authority to regulate sources of contamination when necessary to prevent serious deterioration of ground water quality;

(6) The powers given to districts and the Department of Environmental Quality should be used to stabilize, reduce, and prevent the increase or spread of ground water contamination; and

(7) There is a need to provide for the orderly management of ground water quality in areas where available data, evidence, and other information indicate that present or potential ground water conditions require the designation of such areas as management areas.

**AUTHORITY** - These rules and regulations are adopted pursuant to the authority granted in the Nebraska Ground Water Management and Protection Act.

**PURPOSE** - The purposes of the management area are (1) to protect ground water quantity; and (2) the prevention or resolution of conflicts between users of ground water and appropriators of surface water, which ground water and surface water are hydrologically connected through implementation of controls to meet the goals and objectives identified in the Integrated Management Plan for the Middle Republican Natural Resources District and the Nebraska Department of Natural Resources.

## **CHAPTER 1 – MANAGEMENT AREA**

### **RULE 1-1 MANAGEMENT AREA DESIGNATION AND BOUNDARIES**

A subarea of the management area designated on July 1, 1998 is hereby designated for purposes of implementing the Integrated Management Plan. The geographic and stratigraphic boundaries of the subarea coincide with the existing geographic and stratigraphic boundaries of the existing management area designated on July 1, 1998 (such subarea for integrated management will be referred to as a "management area"). The geographic boundary of the management area is the boundary of the Middle Republican Natural Resources District. The stratigraphic boundary of the management area is from the land surface to the base of the underlying sand and gravel layers that contain the water bearing material. The base of the sand and gravel layers rest on impervious layers of Niobrara Chalk, Pierre Shale or formations from the White River Group. (see Map 1)

## **CHAPTER 2 – GENERAL PROVISIONS**

### **RULE 2-1 VARIANCES**

- 2-1.1 The Board may grant variances from the strict application of these rules and regulations upon good cause shown.
- 2-1.2 All requests for a variance shall be made on forms provided by the District and will be acted upon at a formal adjudicatory hearing before the Board. This hearing will be advertised in the legal newspaper of the District and all known involved parties will be advised of the hearing. The well owner or his or her representative shall be present at the hearing. With prior notification to the District, written testimony may be provided if the well owner cannot be present.
- 2-1.3 The Board, at its discretion, may designate conditions under which specific requests for a variance may be approved by methods other than a formal adjudicatory hearing. A variance granted under these conditions shall be referred to as an expedited variance.

## **RULE 2-2 EXPEDITED VARIANCE**

2-2.1 The Board hereby approves the following expedited variances and allows approval without Board consideration:

1. Alternative methods for metering of wells that pump less than two hundred and fifty (250) gallons per minute.
2. Exempt unused and inactive status wells from the metering requirement until well is placed into active status or is otherwise used.
3. Approval of permits to construct a contamination / remediation well for the purpose of withdrawal or treatment of contaminated water, or for the introduction or removal of air, water or chemicals. The expedited variance request shall include written approval of the state agency with supervisory responsibility for the planned project.
4. Approval of permits to construct a monitoring / observation well for the purpose of withdrawal of water or the observation of water levels during aquifer testing, collection of water quality samples and providing hydrologic information. A monitoring / observation well shall not have a permanent pump installed. The expedited variance request shall include the planned disposition of the well after its intended use is completed.

2-2.2 All requests for an expedited variance shall be made on forms provided by the District.

2-2.3 Approval, approval with conditions or denial of a properly completed request for an expedited variance will be made within thirty (30) days of the receipt of the completed variance.

## **RULE 2-3 SEVERABILITY**

If any rule or any part of any rule herein shall be declared invalid or unconstitutional, such declaration shall not affect the validity or constitutionality of the remaining portions thereof.

## **RULE 2-4 VIOLATIONS AND ENFORCEMENT**

These rules and regulations shall be enforced by the District through the use of cease and desist orders issued in accordance with the "Rules and Regulations for the Enforcement of the Nebraska Ground Water Management and Protection Act", adopted on March 27, 2000, and section II, subsection E, Rule 4 of the "General Policy Statement".

## **RULE 2-5 PENALTIES**

Any person who violates any cease and desist order issued by the District pursuant to section 46-707 or any controls or rules or regulations adopted by the NRD relating to the management area shall be subject to penalties imposed through the controls adopted by the District including, but not limited to, having any allocation of water granted or irrigated acres certified by the District reduced in whole or in part. Notice and hearing shall be provided to such person before the District takes any action. Specific penalties may be identified in rule and regulation for some violations. Any person who violates a cease and desist order

issued by the District pursuant to section 46-707 shall be subject to a civil penalty assessed pursuant to section 46-745, Reissue Revised Statutes of Nebraska.

**RULE 2-6 ACCESS**

- 2-6.1 The District shall have the power and authority enter upon the land, after notification to the landowner, for any and all reasons relative to the administration of the ground water management area, and provisions of the Ground Water Management and Protection Act. This entry shall not be considered trespass.
- 2-6.2 Notification may be accomplished by regular mail, certified mail or by oral communication.
- 2-6.3 The District hereby notifies all operators of its intent to enter onto property, to verify the installation of flow meters or other devices and to read or verify the readings of flow meters or other devices used to measure the quantity of ground water used for irrigation. This process will take place between October 1 and December 31 each year.

**CHAPTER 3 – DEFINITIONS**

**RULE 3-1 DEFINITIONS**

- 3-1.1 Abandoned Well: means any water well, the use of which has been accomplished or permanently discontinued, which has been decommissioned as described in the rules and regulations of the Nebraska Department of Health and Human Services Regulation and Licensure, and a notice of abandonment has been filed with the Department of Natural Resources.
- 3-1.2 Act: The Nebraska Ground Water Management and Protection Act.
- 3-1.3 Additional Water Administration Year: When water is needed for diversion at Guide Rock and the projected or actual irrigation supply is less than 130,000 acre feet of storage available for use in Harlan County Lake.
- 3-1.4 Allocation: As it relates to water use for irrigation purposes, means the allotment of a specified total number of acre-inches of irrigation water per certified irrigated acre per year or an average number of acre-inches of irrigation water per certified irrigated acre over any reasonable period of time. As it relates to other purposes, the allotment of a determined quantity of ground water.
- 3-1.5 Animal Unit: A unit of measurement for any livestock operation. For each type of livestock identified below, the number of animal units shall be the number of livestock in the livestock operation times the multiplier following that livestock type.

Slaughter/Feeder Cattle	1.0	Cow/calf pair	1.2
Dairy Cow	1.4	Swine >55 lbs	0.4
Swine <55 lbs	0.05	Horse	2.0
Chickens	0.01	Sheep	0.1



- 3-1.6 Backup Well: Used in conjunction with a livestock operation well or an industrial well. A backup well cannot be used at the same time as the primary well or wells. A backup well is not subject to the increased spacing requirements of the District.
- 3-1.7 Base Allocation: This amount, in acre-inches, is derived from dividing the allocation by the base allocation period.
- 3-1.8 Base Allocation Period: This is the number of years that an allocation can be used.
- 3-1.9 Board: The elected Board of Directors of the Middle Republican Natural Resources District.
- 3-1.10 Certification: The process whereby the annual use of ground water for a regulated well is reported to and verified by the District.
- 3-1.11 Certified Use: any use of ground water in accordance with Rule 4-6.
- 3-1.12 Certified Irrigated Acre: Any acre that is certified as such pursuant to the rules and regulations of the District and that is actually capable of being supplied water through irrigation works, mechanisms or facilities existing at the time of allocation.
- 3-1.13 Confined Livestock Operation: shall mean totally roofed buildings, which may be open sided or completely enclosed on the sides, wherein animals or poultry are housed over solid concrete or dirt floors or slatted floors over pits or manure collection areas in pens, stalls or cages, with or without bedding materials and mechanical ventilations.
- 3-1.14 Consecutive Water Short Years: The second consecutive year of water short year designation.
- 3-1.15 Consumptive Use: is that amount of water that is consumed under appropriate and reasonably efficient practices to accomplish without waste the purposes for which the appropriation or other legally permitted use are lawfully made.
- 3-1.16 Critical Unit(s): An area(s) designated by the District where circumstances require additional controls.
- 3-1.17 Dewatering Well: shall mean a water well constructed for the purpose of temporarily lowering the ground water surface elevation.
- 3-1.18 District, NRD, MRNRD: The Middle Republican Natural Resources District.
- 3-1.19 Flow Meter: a device, approved by the District, to measure the quantity of ground water pumped, withdrawn, or taken from a water well.
- 3-1.20 Good Cause Shown: shall mean a reasonable justification for granting a variance to consumptively use water that would otherwise be prohibited by rule or regulation and which the District reasonably and in good faith believes will provide an economic, environmental, social or public health and safety benefit that is equal to or greater than the benefit resulting from the prohibition from which a variance is sought.
- 3-1.21 Ground Water: shall mean that water which occurs in or moves, seeps, filters, or percolates through the ground under the surface of the land.

- 3-1.22 Historic Consumptive Use: is that amount of water that has previously been consumed under appropriate and reasonably efficient practices to accomplish without waste the purposes for which the appropriation or other legally permitted use was lawfully made.
- 3-1.23 History of Use: as used in these rules shall mean the exercise of a certified use in four (4) of the previous six (6) years.
- 3-1.24 Illegal Water Well: (a) any water well operated or constructed without or in violation of a permit required by the Act, (b) any water well not in compliance with rules and regulations adopted and promulgated pursuant to the Act, (c) any water well not properly registered in accordance with sections 46-602 to 46-604, (d) any water well not in compliance with any other applicable laws of the State of Nebraska or with rules and regulations adopted and promulgated pursuant to such laws.
- 3-1.25 Inactive Status Well: shall mean a water well that is not currently in use, but is in a good state of repair and for which the owner has provided evidence of intent for future use by maintaining the water well in a manner which meets the following requirements: (1) the water well does not allow impairment of the water quality in the water well or of the ground water encountered by the water well; (2) the top of the water well or water well casing has a water-tight welded or threaded cover or some other water-tight means to prevent its removal without the use of equipment or tools to prevent unauthorized access, to prevent a safety hazard to humans and animals, and to prevent illegal disposal of wastes or contaminants into the water well; and (3) the water well is marked so as to be easily visible and located and is labeled or otherwise marked as to be easily identified as a water well and the area surrounding the water well is kept clear of brush, debris, and waste material. An inactive status water well shall be registered as such in the well registration records of the Nebraska Department of Natural Resources.
- 3-1.26 Incentive Program: shall mean a program that may require agreements or covenants concerning the use of land or water as necessary to produce the benefits for which the program is established.
- 3-1.27 Industrial Well: shall mean a water well the purpose of which includes but is not limited to; manufacturing, commercial and power generation uses of water. Commercial includes, but is not limited to, maintenance of the turf of a golf course.
- 3-1.28 Late Permit: shall mean a permit applied for after construction has commenced on a regulated water well pursuant to section 46-735.
- 3-1.29 Livestock Operation: shall mean the feeding or holding of livestock in buildings, lots or pens which are not used for growing of crops or vegetation, but does not include the holding of cattle in calving operations for less than ninety (90) days per year.
- 3-1.30 Livestock Operation Well: A regulated well providing for the watering of animals in a "livestock operation" or "confined livestock operation" and for which a livestock waste control facility permitted by the Nebraska Department of Environmental Quality is required.

- 3-1.31 Livestock Well: A water well not classified as a livestock operation well but which is used for the watering of (1) livestock, poultry, farm and domestic animals used in operating a farm or (2) domestic livestock as related to normal farm and ranch operations or (3) range livestock or stock use on a farm or ranch.
- 3-1.32 Operator: The person who controls the day-to-day operation of the water well.
- 3-1.33 Permit to Construct a Well: shall mean a document that must be obtained from the District in accordance with Rule 4-2 before construction of a regulated well water well may be commenced in the management area pursuant to section 46-735.
- 3-1.34 Person: A natural person, a partnership, a limited liability company, an association, a corporation, a municipality, an irrigation district, an agency or a political subdivision of the state, or a department, an agency, or a bureau of the United States.
- 3-1.35 Platte Sub Area: That portion of the Middle Republican NRD that is located outside the boundaries of the Republican River Basin as delineated for the Republican River Compact.
- 3-1.36 Primary Well: when used with regard to livestock operation or industrial wells, shall mean the well or wells used for the certified use on a daily or other routine basis.
- 3-1.37 Public Water System: a system for providing the public with water for human consumption, as further defined in Title 179 Chapter 2.
- 3-1.38 Quick Response Sub Area: That area included in the area delineated by the Department of Natural Resources and shown on Map 1.
- 3-1.39 Quick Response Wells: Those wells located in or serving acres in the Quick Response Sub Area.
- 3-1.40 Reduction of Acres: A uniform percentage reduction of each landowners irrigated acres. Such uniform reduction may be adjusted for each landowner based upon crops grown on his or her land to reflect the varying consumptive requirements between crops.
- 3-1.41 Regulated Well: A water well designed and constructed to pump more than fifty (50) gallons per minute. A series of water wells, with a combined discharge of more than fifty (50) gallons per minute, of which the water is commingled, combined, clustered or joined as a single unit for a single purpose shall be considered as one regulated well.
- 3-1.42 Replacement Well: a water well which (a) replaces a previously abandoned water well within one (1) year of the last operation of the abandoned water well or replaces a water well that will not be used after construction of the new water well and the original water well will be decommissioned within one (1) year of construction of the new water well and (b) is constructed to provide water to the same tract of land served by the water well being replaced (c) would not be used to provide water to a use not certified with the well being replaced and (d) would not be used in such a way as to result in the consumption of more water than was historically consumed by the water well being replaced. A replacement

- well, as defined in section 46-602 or as further defined in District rules and regulations, is subject to the same provisions as the water well it replaces.
- 3-1.43 Reserve: That part of an allocation that is unused during the base allocation period.
- 3-1.44 Supplemental Well: A regulated well that provides supplemental ground water to acres that are normally irrigated by surface water. Annual use is not a requirement to be considered a supplemental well.
- 3-1.45 Transfer Permit: shall mean a document that must be obtained from the District in accordance with Rule 5 whereby the point of use, type of use or rules governing the use of ground water is exchanged or moved.
- 3-1.46 Test Hole: shall mean a hole designed solely for the purpose of obtaining information on hydrologic or geologic conditions.
- 3-1.47 Unregulated Well: a water well designed and constructed to pump fifty (50) gallons per minute or less and is not commingled, combined, clustered or joined with other water wells.
- 3-1.48 Unused / Seldom Used Well: a water well that has not been placed in inactive status but is used less than one (1) year in three (3).
- 3-1.49 Upland Sub Area: That area of the District not delineated as the Quick Response Sub Area or the Platte Sub Area.
- 3-1.50 Variance: approval to act in a manner contrary to existing rule or regulation from a governing body whose rule or regulation is otherwise applicable.
- 3-1.51 Water Short Year Administration: will be in effect in those years in which the projected or actual irrigation supply is less than 119,000 acre feet of storage available for use from Harlan County Lake.
- 3-1.52 Water Well: any excavation that is drilled, cored, bored, washed, driven, dug, jetted, or otherwise constructed for the purpose of exploring for ground water, monitoring ground water, utilizing the geothermal properties of the ground, obtaining hydrogeologic information or extracting water from or injecting water into the underground water reservoir. Water well does not include any excavation made for obtaining or prospecting for oil or natural gas or for inserting media to repressure oil or natural gas bearing formations regulated by the Nebraska Oil and Gas Conservation Commission.
- 3-1.53 Wellhead Protection Area: A delineated area around a public water supply well or wells, used for human needs, representing the thresholds based on time of travel of ground water toward the public water supply well or wells.

## **CHAPTER 4 – GENERAL MANAGEMENT**

### **RULE 4-1 MORATORIUM**

- 4-1.1 The District finds that the use of hydrologically connected ground water and surface water resources is contributing to conflicts between ground water and surface water users and to disputes over the Republican River Compact. The District hereby closes all of the management area, as defined in Rule 1-1, to the issuance of new permits for regulated wells except as provided in 4-1.2.
- 4-1.2 Replacement wells, backup wells as defined in 3-1.6, wells for industrial purposes and public water system wells are not subject to the moratorium.

### **RULE 4-2 PERMIT TO CONSTRUCT A WATER WELL**

- 4-2.1 Except as provided in Rule 4-2.3 any person who intends to construct a regulated water well on land in the management area which he or she owns or controls shall, before commencing construction, apply with the District for a permit on a form provided by the District. The District shall review such applications and issue the approved permit, with or without conditions, or deny the permit within thirty (30) days after the application is properly prepared and received. An incomplete or defective application shall be returned for correction. If correction is not made within sixty (60) days the application shall be cancelled.
- 4-2.2 Applications for a permit to construct a water well that require consideration of a variance request shall not be deemed as properly filed and complete until such time as the Board has acted to approve the variance request.
- 4-2.3 Exceptions. No permit shall be required for:
- 4-2.3.1 Test holes
  - 4-2.3.2 Dewatering wells with an intended use of ninety (90) days or less.
  - 4-2.3.3 A single water well designed and constructed to pump fifty (50) gallons per minute or less.
- 4-2.4 A permit is required for a water well designed and constructed to pump fifty (50) gallons per minute or less if such water is commingled, combined, clustered, or joined with any other water well or wells or other water source, other than a water source used to water range livestock. Such wells shall be considered one (1) well and the combined capacity shall be used as the rated capacity.
- 4-2.5 A person shall apply for a permit before he or she modifies a water well, for which a permit was not required when the well was constructed, into one for which a permit would otherwise be required.
- 4-2.6 The application shall be accompanied by a \$50.00 filing fee payable to the District and shall contain:
- 4-2.6.1 The name and post office address of the well owner,
  - 4-2.6.2 The nature of the proposed use,

- 4-2.6.3 The intended location of the proposed water well or other means of obtaining ground water,
- 4-2.6.4 The intended size, type and description of the proposed water well and the estimated depth, if known,
- 4-2.6.5 The estimated capacity in gallons per minute,
- 4-2.6.6 The acreage and location by legal description of the land involved if the intended use is for irrigation,
- 4-2.6.7 A description of the proposed use if other than irrigation,
- 4-2.6.8 The registration number of the well being replaced, if applicable,
- 4-2.6.9 The certified use of the well being replaced, if applicable,
- 4-2.6.10 The historic consumptive use of the well being replaced, if applicable, and
- 4-2.6.11 Such other information as the District may require.
- 4-2.7 Any person who has failed or in the future fails to obtain a permit before construction is commenced shall make application for a late permit on forms provided by the District.
- 4-2.8 The application for a late permit shall be accompanied by a \$250.00 fee payable to the District and shall contain the same information required in Rule 4-2.6.
- 4-2.9 An application for a new regulated well with an intended consumptive use of more than three hundred (300) acre feet over a twelve (12) month period requires, in addition to the information required by 4-2.6, the following information:
  - 4-2.9.1 The availability to the applicant of alternative sources of surface or ground water,
  - 4-2.9.2 Any negative effect of the proposed withdrawal on ground water and surface water supplies needed to meet present or reasonable future demands for water in the intended area of withdrawal within the state, to comply with any interstate compact or decree, or to fulfill the provisions of any other formal state contract or agreement,
  - 4-2.9.3 Any adverse environmental effect of the proposed withdrawal, and
  - 4-2.9.4 The cumulative effect of the proposed withdrawal relative to the matters listed in 4-2.9.1 through 4-2.9.3
- 4-2.10 The application for a permit shall be denied if (1) the location or operation of the proposed water well or other work would conflict with any regulations or controls adopted by the District, (2) the proposed use would not be a beneficial use, or (3) in the case of a late permit only, that the applicant did not act in good faith in failing to obtain a timely permit.
- 4-2.11 No refund of any application fees shall be made regardless of whether the permit is issued, canceled, or denied.
- 4-2.12 The issuance, by the District, of a permit or the registration of a water well with the Nebraska Department of Natural Resources shall not vest in any person the right to violate any District rule, regulation, or control in effect

- on the date of issuance of the permit or the registration of the water well or to violate any rule, regulation, or control properly adopted after such date.
- 4-2.13 The applicant shall commence construction as soon as possible after the date of approval and shall complete construction and equip the water well prior to the date specified in the conditions of approval, which shall not be more than one (1) year from the date of approval, unless it is clearly demonstrated in the application that one (1) year is an insufficient period of time for such construction. Failure to complete the project under the terms of the permit may result in the withdrawal of the permit by the District.

#### **RULE 4-3 WELL SPACING**

- 4-3.1 No regulated well except a backup well shall be constructed upon any land in this District within one thousand three hundred and twenty (1320) feet of any other registered regulated well, regardless of ownership except;
- 4-3.1.1 Any irrigation water well that replaces an irrigation water well which was drilled prior to September 20<sup>th</sup>, 1957, and which is less than six hundred (600) feet from a registered irrigation well may be located closer than one thousand three hundred and twenty (1320) feet from another regulated well if it is drilled within fifty (50) feet of the water well being replaced.
- 4-3.1.2 A replacement well may be constructed less than one thousand three hundred and twenty (1320) feet from another registered regulated water well, if it is constructed within one hundred (100) feet of the water well it replaces or is relocated no closer than the well it replaces to other wells and if such replaced water well was, when constructed, in compliance with all applicable laws, rules and regulations.
- 4-3.2 The well spacing required by Rule 4-3.1 shall also apply to the distance between a proposed new regulated well and an unregistered regulated water well but only for a period of sixty (60) days to allow for registration of such unregistered water well.

#### **Rule 4-4 FLOW METERS**

- 4-4.1 Flow meters meeting accuracy specifications established in Rule 4-4.2 shall be installed on all regulated wells by the end of the year 2004 except,
- 4-4.1.1 For a well with a pumping capacity of less than two hundred and fifty (250) gallons per minute, an alternative measuring device or method, approved by the District, with an accuracy of plus or minus five (5) percent of the actual water flow, may be used.
- 4-4.1.2 Before any inactive wells are placed in service, a flow meter shall be installed, the District shall be notified of the well's status change, and the status of the well in the well registration records of the Department of Natural Resources shall be updated to

- reflect its active status. No such well shall be operated thereafter without a properly installed and operational flow meter.
- 4-4.2 All meters shall be tested for accuracy using recognized industry testing methods and certified by the manufacturer according to those standards. At any rate of flow within the normal flow limits, the meter, except as noted in Rule 4-4.1.1, shall register not less than ninety eight (98) percent or more than one hundred and two (102) percent of the water actually passing through the meter. All meters shall have a register or totalizer and shall read in U. S. gallons, acre-feet or acre-inches.
- 4-4.3 Installation – The operator shall, on forms provided by the District, report the location, by legal description, and certify the proper installation of flow meters. The District may, at a time of its own choosing, verify the location and proper installation of flow meters. The proper installation of a meter is such that it meets the manufacturer's specifications and/or more restrictive specifications developed by the District.
- 4-4.3.1 In no case may a meter be installed with less than five (5) unobstructed pipe diameters upstream of the meter or less than one (1) unobstructed pipe diameter downstream of the meter.
- 4-4.3.2 If the meter is installed downstream of a mainline check valve, there must be at least ten (10) pipe diameters upstream of the meter. If there are not at least ten (10) pipe diameters upstream of the meter, straightening vanes must be installed.
- 4-4.3.3 Meters must be located so as to prevent damage to the meter from excessive vibration.
- 4-4.3.4 Meters mounted in tubes or piping that can be easily removed or are routinely removed at the end of the irrigation season must be identified with the District. The date of removal and the location where the meter is stored off season must be provided to the District. In order to verify the meter reading, the District shall be notified seven (7) calendar days prior to the removal of these meters.
- 4-4.3.5 Meters must be installed so that the removal of the meter for service or maintenance can be performed with the use of normal tools and does not require excessive or unusual removal of hardware or other appurtenances.
- 4-4.3.6 The District may establish a method by which the installed meter is tagged, sealed, marked or otherwise protected from tampering.
- 4-4.4 Improperly Installed Meters – The installation of meters that do not meet manufacturers' or District standards must be corrected. Failure to provide for proper installation will result in the loss of allocation for the next crop year.
- 4-4.5 Inoperative Meters – Landowners shall notify the District of an inoperative meter within one (1) working day from the time the defect is noted. The District will repair or temporarily replace the inoperative meter and charge the well owner for the service. Failure to report inoperative meters will result in the loss of allocation for the next crop year.



- 4-4.6 Tampering with an installed flow meter – Following a hearing before the Board, if it is found that tampering so as to affect the accuracy or true use of the meter has occurred, the District shall withhold the allocation for the next crop year and may prorate the allocation for the current year.
- 4-4.7 Service – It is the responsibility of the operator to provide for service and maintain the flow meter according to either the manufacturer's standards or more restrictive standards developed by the District. The operator may grant permission for this service to be provided by the District, at a cost to the operator. A form, provided by the District, will authorize this service and the District may enter onto property to provide this service. This service will be provided in the off-season and will not interfere with the normal operation of the meter or the well.
- 4-4.8 The District may establish a spot check program to inspect the serviceability and verify use of a meter. The District may correct discrepancies noted at the time of the inspection. Discrepancies that require the repair of a meter may be performed by the District, at a cost to the well owner, with the permission of the well owner.

#### **RULE 4-5 REPORTS**

- 4-5.1 Each operator of a regulated irrigation well shall report on forms provided by the District by November 15 of each year, measurements that show or allow the District to determine the total water withdrawn from that well since the last report and the acres irrigated by that well during the preceding irrigation season.
- 4-5.2 Each operator of a regulated well, other than an irrigation well, shall report, on forms provided by the District, by January 15 of each year, the total water withdrawn from that well during the preceding calendar year and the nature of the use of that water.
- 4-5.3 Failure to provide this report shall result in the loss of allocation for the next crop year or current year, in the case of a regulated well other than an irrigation well.
- 4-5.4 In order to ensure compliance with the Republican River Compact Accounting procedures, additional reports may be required from operators.

#### **RULE 4-6 CERTIFICATION**

- 4-6.1 After June 1, 2004 for irrigation wells, and December 1, 2004 for wells used for other than irrigation purposes, no regulated well shall be operated until its use is certified and approved by the Board pursuant to these rules and regulations.
- 4-6.2 Any operator aggrieved by a determination of the Board regarding approval of certification of irrigated acres or of non-irrigation uses may request a hearing before the Board for the purpose of reconsidering that determination. Such request shall be filed on a form provided by the District within thirty (30) days of the Board's action on the certification. Such hearing shall be a formal adjudicatory hearing and shall be

conducted in accordance with the District's Rules and Regulations for the Enforcement of the Ground Water Management and Protection Act. The burden of proof shall be on the person requesting the hearing to document that the Board's decision should be modified.

- 4-6.3 The Board shall review each certification for all uses no less often than every five (5) years. Errors or inconsistencies discovered during that review shall be resolved to the satisfaction of the Board before any new allocation is made to the previously certified uses. Following notice and a hearing, the Board may rescind any previously approved certification and any previously granted allocation to a well for which false or misleading information was used to obtain the certification required by Rule 4-6.5 or 4-6.14.
- 4-6.4 Any change in farming operation or ownership that would result in a change in the number or location of certified irrigated acres shall be reported to the District no later than December 31 of the calendar year in which the change occurred. Any change in use of a regulated well used for purposes other than irrigation that would result in a change in that well's certification shall be reported to the District no later than December 31 of the calendar year in which the change occurred. The Board may reject such changes if it finds that such changes would cause an increase in Nebraska's consumptive use as calculated pursuant to the Republican River Compact or would have detrimental effects on other ground water users or on surface water appropriators.

#### IRRIGATION USES

- 4-6.5 No later than January 1, 2004 each owner or operator of a regulated irrigation well shall certify (1) the well registration number for that well, (2) the number and location of all acres irrigated at least once by that well between January 1, 1993 and December 31, 2002, (3) the maximum number of acres irrigated by that well in any one (1) year within that time period, (4) the number and location of all acres irrigated by that well in 2003. Such certification shall be on forms provided by the District and shall be accompanied by applicable records from the Farm Service Agency and/or the County Assessor and such other information as requested by the District to verify the information certified.
- 4-6.6 The Board may take action to approve, modify and approve, or reject the certifications provided by owners and/or operators pursuant to Rule 4-6.5. The number and location of certified irrigated acres, which shall be approved for each such irrigation well, shall be determined at a public meeting of the Board after consideration of the following:
- The information provided on and with the certification filed in accordance with Rule 4-6.5,
  - Any water use reports for that well filed in accordance with Rule 4-5,
  - U.S.D.A. Farm Service Agency records,

- County Assessor records,
  - Aerial photographs, and
  - Other information available to and deemed relevant by the Board.
- 4-6.7 Only those acres that are actually capable of being supplied with ground water through irrigation works, mechanisms or facilities existing at the time of certification may be approved as certified acres by the Board.
- 4-6.8 An irrigation well constructed before June 12, 2002 but not registered until after December 31, 2003, shall be approved for no more than (1) its proven record of use or (2) one hundred and sixty (160) certified irrigated acres.
- 4-6.9 Replacement irrigation wells constructed after May 19, 2003 shall be approved for no more certified acres than the certified use for the well being replaced.
- 4-6.10 After January 1, 2004, with the prior approval of the Board, an irrigation well that was constructed prior to June 12, 2002 but has not yet been used for irrigation, is in inactive status or is unused may be granted certified acres. That approval may be granted only upon the written request of the well owner and when the Board has determined (1) that the well is in compliance with all applicable rules and regulations of the District (2) the location and number of acres proposed to be irrigated by that well in the future will be limited to no more than one hundred and sixty (160) acres, the acres that the well is capable of serving or the certified use being replaced. This certified use includes supplementing existing surface water irrigated acres or replacing the use of active wells on certified irrigated acres.
- 4-6.11 If certification is not filed pursuant to Rule 4-6.5 to 4-6.10 for an irrigation well constructed prior to January 1, 2004, the well shall be an "illegal water well" as that term is defined in District Rule 3-1.24.
- 4-6.12 The Board shall not certify any irrigated acres for an illegal water well, as that term is defined in District Rule 3-1.24, and an illegal water well shall receive no future allocation of water until such certification has been filed and until the Board has approved or modified and approved that certification. Certification of acres can be approved for any such well if and when the deficiency that caused that well to be an illegal water well is corrected.
- 4-6.13 The number of acres that may be certified and approved for a well from which the water is applied to the crop through a sprinkler system may be up to five (5) percent greater than the actual area planted to crops if there are non-cropped areas under the sprinkler system.

#### **NON-IRRIGATION USES**

- 4-6.14 No later than September 1, 2004, each owner or operator of a regulated well used for purposes other than irrigation shall certify (1) the well

registration number for that well, (2) the nature and location of the use of the water withdrawn from that well, (3) the measured or estimated average annual quantity of water withdrawn from that well between January 1, 1993 and December 31, 2002 and a description of the method used to determine that quantity, (4) the measured or estimated maximum quantity withdrawn from that well in any one (1) year during that time period, (5) the measured or estimated quantity of water withdrawn from that well in 2003, (6) if the well was constructed before June 12, 2002 but has not yet been used for its intended purpose, the quantity of water proposed to be withdrawn from that well in the future, (7) if the well is a replacement well constructed after January 1, 2003, the information required by items (1) through (5) above for the well replaced, (8) if the well was constructed after June 12, 2002, the quantity withdrawn in 2003 and the quantity of water proposed to be withdrawn from that well in the future, and (9) if the owner or operator of the well desires that the annual quantity of use to be certified for that well be in excess of the quantity historically withdrawn by that well, the quantity proposed and an explanation why that quantity is necessary to accomplish the purpose for which the well is used. Such certification shall be on forms provided by the District and shall be accompanied by such information as requested by the District to verify the information certified.

- 4-6.15 No later than November 1, 2004, the Board shall take action to approve, modify and approve, or reject the certifications provided by the owners and/or operators of non-irrigation wells pursuant to Rule 4-6.14. Such action shall be taken after reviewing the information provided by the owner or operator of the well and any other information available to and deemed relevant by the Board. The Board's approval of the certification for such a well shall not, by itself, limit the quantity of water that can be withdrawn by that well in 2005 or any subsequent year. Any such limitations on the quantity that can be withdrawn annually from that well will be imposed through the Board's allocation of water to that well pursuant to the District's rules and regulations. The Board may use the information provided through such certification if and when it determines the amount to be allocated to that well.
- 4-6.16 Only those non-irrigation uses that are actually capable of being supplied with ground water through works, mechanisms or facilities existing at the time of certification may be approved as certified uses by the Board.
- 4-6.17 If no certification is filed pursuant to Rule 4-6.14 for a regulated well constructed prior to September 1, 2004, and used for other than irrigation purposes, that well shall not be used and shall not receive an allocation from the District until such certification has been filed with the District and approved by the Board.
- 4-6.18 Certification shall not be approved by the Board for any regulated non-irrigation well, which is an "illegal water well" as that term is defined by Rule 3-1.24 of the District's rules and regulations. The Board can approve

such certification if and when the deficiency that caused the well to be an illegal water well is corrected.

- 4-6.19 Certification of use for an inactive status or unused non-irrigation well will be approved only when that well is returned to active status, has been registered as such with the Department of Natural Resources, and is in compliance with all applicable rules and regulations of the District.

#### **RULE 4-7 WATER SHORT YEAR ADMINISTRATION**

- 4-7.1 No later than October 1, 2005 and October 1 of each following year the Department of Natural Resources will notify the District of the potential for Water Short Year administration. Notification of updates to such determinations will be provided monthly, or more often as requested, through the following June 30<sup>th</sup> at which time the final determination will be made.
- 4-7.2 Upon receiving notice of the potential designation of a Water Short Year, the District shall provide notice to irrigators of this designation by publishing said notice in newspapers of general circulation in the District and shall place said notice on the District website.
- 4-7.3 Consecutive Water Short Years may require additional reductions in certified acres or reductions in the base allocation.
- 4-7.4 Following the designation of a consecutive Water Short Year, the Board shall adopt additional controls as needed to maintain compliance with the Republican River Compact.
- 4-7.5 Additional Water Short Year controls may be mitigated by the active participation in incentive programs.

#### **RULE 4-8 INCENTIVE PROGRAM**

Unless permitted by the rules and regulations established by individual incentive programs, no certified acres may be enrolled in incentive programs sponsored by or funded by the District if such certified acres do not have a history of use in four (4) of the previous six (6) years.

These incentive programs may include any Federal, State, or Local programs that have the effect of reducing the MRNRD's overall consumptive use. Subject to State law, the MRNRD may also raise that money necessary to provide cost share for incentive programs it utilizes. If sufficient irrigated acres are retired, through the use of incentive programs, above what is needed to meet the requirements of the Republican River Compact, the MRNRD may re-evaluate and alter the allocation previously set per irrigated acre.

## **CHAPTER 5 – MANAGEMENT OF USES**

### **RULE 5-1 TRANSFER PERMITS**

- 5-1.1 For agricultural purposes, any person who intends to withdraw ground water and transfer that ground water off the overlying land which he or she owns or controls or otherwise change the location of use of ground water shall, before making such transfer, apply for a permit on forms provided by the District.
- 5-1.2 The MRNRD shall approve the withdrawal and transport of ground water when a public water supplier providing water for municipal purposes receives a permit from the Nebraska Department of Natural Resources pursuant to the Municipal and Rural Domestic Ground Water Transfers Permit Act.
- 5-1.3 Transfers for which permits or approval for transfer have been obtained pursuant to the Industrial Ground Water Regulatory Act are not required to apply for a transfer permit from the District.
- 5-1.4 Issuance of the permit shall be conditioned on the applicant's compliance with the rules and regulations of the District from which the water is withdrawn.
- 5-1.5 The applicant shall be required to provide access to his or her property at reasonable times for purposes of inspection by officials of the District.
- 5-1.6 An application for a permit to transfer shall contain the following information:
- 5-1.6.1 The name and post office address of the well owner,
  - 5-1.6.2 The point of withdrawal,
  - 5-1.6.3 The point of transfer,
  - 5-1.6.4 The registration number of the water well(s) involved,
  - 5-1.6.5 The certified acres of the water well(s) involved,
  - 5-1.6.6 The nature of the proposed use and whether it is a reasonable and beneficial use of ground water,
  - 5-1.6.7 The availability to the applicant of alternative sources of surface or ground water,
  - 5-1.6.8 Any negative effect of the proposed withdrawal on ground water and surface water supplies needed to meet present or reasonable future demands within the State or to comply with the Republican River Compact,
  - 5-1.6.9 Any adverse environmental effect of the proposed withdrawal or transportation of ground water,
  - 5-1.6.10 The cumulative effect of the proposed withdrawal and transfer relative to the matters listed in 5-1.6.6 through 5-1.6.9, and
  - 5-1.6.11 Any other factors consistent with the purposes of this section that the District deems relevant to protect the health, safety, and/or welfare of the District and its citizens.
- 5-1.7 The application for a transfer permit shall be denied or conditioned to the extent that it is necessary to (1) ensure the consistency of the transfer with the purpose or purposes for which the management area was designated,

- (2) prevent adverse effects on other ground water users or on surface water appropriators, (3) maintain compliance with the Republican River Compact, and (4) otherwise protect the public interest and prevent detriment to the public welfare. The application for a transfer permit also shall be denied if (1) the location or operation of the proposed water well or other work would conflict with any regulations or controls adopted by the District or (2) the proposed use would not be a beneficial use.
- 5-1.8 The issuance, by the District, of a transfer permit shall not vest in any person the right to violate any District rule, regulation, or control in effect on the date of issuance of the permit or to violate any rule, regulation, or control properly adopted after such date.
- 5-1.9 The issuance, by the District, of a transfer permit shall not vest in any person the right to violate any statute, state agency or other jurisdictional agency's rule, regulation, or control in effect on the date of issuance of the permit or to violate any rule, regulation, or control properly adopted after such date. It is the responsibility of the applicant to ensure compliance with other rules and regulations.
- 5-1.10 The District shall review such applications and issue, with or without conditions, or deny the permit within thirty (30) days after the application is properly filed. An incomplete or defective application shall be returned for correction. If correction is not made within sixty (60) days the application shall be cancelled.

#### **RULE 5-2 TRANSFERS**

- 5-2.1 Transfers out of the District. Any person who desires to withdraw ground water from wells located within the District and transport that ground water out of the District for use elsewhere in the State may do so after obtaining a transfer permit in accordance with Rule 5-1. Use of the withdrawn water must be approved by the District within which the water will be used. Ground water shall not be transferred or transported to lands outside of the boundaries of the Republican River Basin as defined in the Republican River Compact.
- 5-2.2 Transfers into the District. Ground water withdrawn outside the District shall not be transported for use inside the District unless the District from which the ground water is withdrawn approves the withdrawal and transport in advance. Use of the transported water must be in accordance with these rules.
- 5-2.3 Transfer out of State. Requests for transfer of ground water out of state pursuant to NRRS Section 46-613.01 shall not be acted upon by the District until such time as the approval or denial, by the Nebraska Department of Natural Resources, of the required transfer permit.
- 5-2.4 Transfer of Use. A portion or all of an allocation may be transferred to another user for the same or another use. Only the unused portion of an allocation can be transferred. If an allocation had been completely used, no transfer of use would be available until the next allocation period.

Reserve associated with the allocation or portion thereof may also be transferred. Reserve may not be transferred alone.

- 5-2.4.1 If the transfer of use is for the entire allocation, the well from which the use was transferred cannot be used during the period of time covered by the transfer. The well must be configured to prevent the possibility of contamination of the ground water.
- 5-2.5 Permanent Transfer. A permanent transfer may be accomplished by decommissioning a well and discontinuing its certified use and transferring the right to that use to another owner. The new well shall be limited to the quantity of the allocation associated with the certified use from the well being replaced.
- 5-2.5.1 If the well for which the use is being permanently transferred is part of a series, or a well that is commingled, combined, clustered or joined with other water wells, then only that pro rata portion of the allocation is transferred.
- 5-2.6 The allocation for any use is associated with the certification of that use. The right to use the allocation shall be surrendered with a transfer of use or a permanent transfer. The new user would be limited to the quantity of allocation associated with the certified use and would be subject to the same restrictions on volume of use as the original allocation. A portion of the allocation for a municipal use may be transferred to another use. The amount transferred would be deducted from the municipal allocation.
- 5-2.7 The District may further limit the allocation upon transfer of use if the use is between sub areas with different allocations.
- 5-2.8 Transfer of use or permanent transfer may be made within sub areas, from the Quick Response Sub Area to the Upland Sub Area, and out of a critical unit.
- 5-2.9 The District may limit the allocation to the consumptive use associated with the certified use if the transfer is to a different preference use.
- 5-2.10 All requests for a transfer shall be made in accordance with Rule 5-1.
- 5-2.11 All requests for a transfer shall show a history of use.

### **RULE 5-3 ALLOCATION**

- 5-3.1 The use of ground water from all regulated water wells shall be allocated by the District. Allocations will be set after considering: (1) the relationship between wells and surface waters and the impact of well usage on stream flow; (2) whether ground water levels are declining; and (3) such other factors as the Board determines may be relevant to the appropriate amount of water to be withdrawn.
- 5-3.2 INDUSTRIAL USES: Regulated wells for industrial uses shall receive an allocation determined on a case-by-case basis, taking into account the history of use of the wells and the needs of the industry for which the well is used. Additional allocations, up to twenty (20) percent above established use, may be granted for expansion. The industry shall provide notice to the District of its need for additional allocation. Additional



- allocations as needed to comply with state or federal rules shall be added to the certified use without penalty to the industry.
- 5-3.3 New industrial uses shall be granted an allocation determined by their proposed need for a period of five (5) years. Future allocations will be based on the high use over that five (5) year introductory allocation. Additional allocations, up to twenty (20) percent above established use, may be granted for expansion. The industry shall provide notice to the District of its need for additional allocation. Additional allocations as needed to comply with state or federal rules shall be added to the certified use without penalty to the industry. Allocations for industrial wells the use of which come under the authority of the Industrial Ground Water Regulatory Act, shall be determined by the amount permitted by that Act.
- 5-3.4 MUNICIPAL USES – Without further need of application, each municipality shall be granted an annual per capita allocation as shown in Table 1. This allocation for an “average town” is based on the land area of all communities in the District with a public water supply and the base allocation for Upland Sub Area irrigated acres. Municipal uses shall be reviewed at the February Board meeting each year and adjustments for growth shall be computed. The reports as required in Rule 4-5 are necessary to determine overall ground water use in the District. Industrial uses within a municipality may be identified separately and not counted as part of the municipal allocation. These industrial uses shall include, but not be limited to, manufacturing, commercial, power generation and maintenance of the turf of a golf course.
- 5-3.5 LIVESTOCK OPERATION WELLS - will be allocated an amount equal to the maximum reasonable quantity of water for livestock and poultry as shown in Table 2.
- 5-3.6 Upon completion by the operator and receipt by the District of the report required by Rule 4-5, allocations for industrial uses, municipal uses and livestock operation uses shall be reviewed annually and adjustments to allocations may be considered at the February Board meeting.
- 5-3.7 IRRIGATION USES
- 5-3.7.1 Base allocation – Thirteen (13) inches per year
  - 5-3.7.2 Base allocation period – Three (3) years
  - 5-3.7.3 Base certification – One hundred (100) percent of certified irrigated acres
  - 5-3.7.4 Allocation Year – January 1<sup>st</sup> to December 31<sup>st</sup>

### **PROVISIONS FOR SUB AREAS**

- 5-3.8 **UPLAND SUB AREA** - For the period commencing January 1, 2005 and ending December 31, 2007,
- 5-3.8.1 Allocation: Thirty nine (39) inches for the entire period
  - 5-3.8.2 Maximum Allocation Year use: unrestricted
  - 5-3.8.3 Maximum Allocation Year use in Water Short Year: unrestricted subject to any changes made pursuant to Rule 4-7.

5-3.9 **QUICK RESPONSE SUB AREA** - For the period commencing January 1, 2005 and ending December 31, 2007.

5-3.9.1 Allocation: Thirty nine (39) inches for the entire period

5-3.9.2 Maximum Allocation Year use: unrestricted

5-3.9.3 Maximum Allocation Year use in Water Short Year: unrestricted subject to any changes made pursuant to Rule 4-7.

5-3.10 **PLATTE SUB AREA** - For the period commencing January 1, 2005 and ending December 31, 2007,

5-3.10.1 Allocation: unrestricted

5-3.10.2 Allocation period: Not applicable

5-3.10.3 Base allocation: Not applicable

5-3.10.4 Base Certification: One hundred (100) percent of certified irrigated acres

5-3.10.5 Maximum yearly use: unrestricted

5-3.11 **SUPPLEMENTAL WELLS** - For the period commencing January 1, 2005 and ending December 31, 2007,

5-3.11.1 Allocation: Thirty nine (39) inches minus the amount of surface water delivered or transferred to surface water irrigated acres that do not have a supplemental well

5-3.11.2 In a Water Short Year, base certification and maximum allocation shall be in accordance with 5-3.8 and 5-3.9 minus the amount of surface water delivered or transferred to surface water irrigated acres that do not have a supplemental well.

5-3.12 **PENALTY** - If at the end of an allocation period an operator has exceeded his or her allocation, the allocation for the next allocation period shall be reduced by the number of acre inches by which said allocation was exceeded in the prior period for the first three inches of overuse and by twice the number of inches of overuse for the fourth and subsequent inches of overuse.

5-3.13 **PENALTY** - Overuse of the base allocation during a Water Short Year shall result in the reduction of twice the number of acre-inches overused in the next allocation period.

5-3.14 An operator must have a positive balance in his or her allocation before using water in any year of an allocation period. The District will notify landowners and/or operators anytime the balance of their allocation goes below zero.

5-3.15 For irrigation purposes, if at the end of the allocation period, an operator has consumed less than his or her allocation, he or she may carry the reserve or unused portion forward to the subsequent allocation period. However, the maximum amount of reserve cannot exceed the base allocation of the completed period. Reserve ground water must be used for the same certified acres for which the water was originally allocated, unless approved for transfer pursuant to Rule 5-2.4.

*look at wording here*

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- 5-3.16 Certified irrigated acres participating in the Federal Conservation Reserve Program (CRP), EQIP, prevented planting or similar programs shall not receive an allocation during the term of participation. Certified irrigated acres removed from these programs shall be granted an allocation that is prorated for the remaining years of the allocation period.
- 5-3.17 Supplemental wells shall be reported to the District before an allocation is granted.
- 5-3.18 On or before January 1, 2005, operators of all other regulated water wells for which allocations have not been established by the District shall apply for an allocation and such wells shall not be operated until the District has approved an allocation. The allocation for uses not specifically identified shall be equal to the allocation for irrigated uses as set for the sub area in which the well is located for each one hundred and sixty (160) acres or eighty (80) acre portion thereof under the control of the operator. These acres cannot be certified for other uses or receive another allocation without the consent of the District.
- 5-3.19 The District may review any allocation, rotation or reduction control imposed in a management area and/or sub area and shall adjust allocations, rotations or reductions to accommodate or otherwise reflect findings of such review consistent with the ground water management objectives. Such review shall consider more accurate data or information that was not available at the time of the allocation, rotation or reduction order, designation of a Water Short Year and such other factors as the District deems appropriate.
- 5-3.20 The District may institute formal adjudicatory proceedings or take any other legal action authorized or permitted by law to prohibit further withdrawal of ground water from any regulated well whenever an operator has exhausted his or her allocation during or before the end of any allocation period or has in any other way violated the amount, limitations, or conditions of his or her allocation or violated any other rules of the District. In the event of such action, no ground water may be withdrawn until the operator has adhered to District rules and regulations.

#### **RULE 5-4 CRITICAL UNITS**

5-4.1 SWANSON Critical Unit - That portion of the Quick Response Sub Area west of a north-south line through the centerline of Trenton Dam. (see Map 2)

5-4.1.1 Action will not be allowed that would increase the certified acres in this unit.

#### **RULE 5-5 REDUCTION OF IRRIGATED ACRES**

5-5.1 No later than November 15 after the designation of the potential for a Water Short Year, the District will notify operators, by mail, in the appropriate sub areas of the potential requirement to reduce certified ground water irrigated acres pursuant to Rule 4-7.

- 5-5.2 Operators in the Quick Response Sub Area will be required to report, on forms provided by the District, their certified uses, the acres that will be reduced and their proposed uses for the upcoming year.
- 5-5.3 Certified acres with crops requiring ten (10) acre-inches or less of ground water shall not be required to reduce according to Rule 5-5.2.

**RULE 5-6 LIMIT OR PREVENT THE EXPANSION OF NEW ACRES**

- 5-6.1 Beginning on November 17, 2003 and except as provided by Rules 4-6.10 and 5-6.2, no irrigation well may be used to irrigate any acre that was not irrigated with ground water at some time between January 1, 1993 and November 17, 2003.
- 5-6.2 With the prior approval of the Board and completion of the appropriate transfer permit, acres not irrigated with ground water between January 1, 1993 and November 17, 2003, may be irrigated only if the Board determines that irrigation has been or will be discontinued on an equal or greater number of acres that were irrigated with ground water between January 1, 2000 and November 17, 2003. In deciding whether to approve any such proposed substitution of ground water irrigated acres, the Board shall consider the extent to which, if at all, such substitution of acres would adversely affect other ground water users or surface water appropriators or would cause an increase in Nebraska's consumptive use as calculated pursuant to the Republican River Compact.

## **CHAPTER 6 INTEGRATED MANAGEMENT PLAN**

### **INTEGRATED MANAGEMENT PLAN Jointly Developed by the DEPARTMENT OF NATURAL RESOURCES And the MIDDLE REPUBLICAN NATURAL RESOURCES DISTRICT**

#### **AUTHORITY**

This integrated management plan was prepared by the Board of Directors of the Middle Republican Natural Resources District (MRNRD) and the Nebraska Department of Natural Resources (NDNR) in accordance with Sections 46-715, 46-716, 46-717, and 46-720, R.S.Supp., 2004.

#### **BACKGROUND**

In 1943 the States of Colorado, Kansas and Nebraska entered into the Republican River Compact (hereinafter the Compact) with the approval of Congress. The Compact provides for the equitable apportionment of the "virgin water supply" of the Republican River Basin. Following several years of dispute about Nebraska's consumptive use of water within the basin, Kansas filed an original action in the United States Supreme Court against the states of Nebraska and Colorado in 1998. After several rulings by the Court and it's Special Master and several months of negotiation, all three states entered into a comprehensive Settlement Agreement. That Agreement was approved by the Court on May 19, 2003 and the Special Master's final report approving the Joint Groundwater Model developed by all three states for use in computing stream flow depletions resulting from groundwater use was submitted to the Court on September 17, 2003.

In July, 1996, the MRNRD and the other three Natural Resources Districts in the Republican River Basin, pursuant to then Section 46-656.28 of the Nebraska statutes, initiated a joint action planning process with the Department of Water Resources (DWR), the predecessor agency to NDNR. In accordance with that process, DWR first made a preliminary determination in 1996 that "there was reason to believe that the use of hydrologically connected ground water and surface water resources is contributing to or is in the reasonably foreseeable future likely to contribute to disputes over the Republican River Compact." When the studies required by Section 46-656.28 had been completed, NDNR issued its conclusions on May 20, 2003 in the form of a report entitled: "Republican River Basin, Report of Preliminary Findings." Those conclusions included the following determination:

Pursuant to Section 46-656.28 and the preliminary findings in this report, the Department determines that present and future Compact disputes arising out of

the use of hydrologically connected ground water and surface water resources in the Republican River Basin can be eliminated or reduced through the adoption of a joint action plan.

Following four hearings on that report, NDNR made final the preliminary conclusions in the report and the four basin Natural Resources Districts were so informed. The MRNRD and the other three Districts each then adopted orders to proceed with developing a joint action plan for integrated management of hydrologically connected surface water and ground water resources in the basin; preparation of a joint action plan for the MRNRD began soon thereafter.

The 2004 Nebraska Legislature adopted LB962 in April of 2004 and it was signed by Governor Johanns on April 15, 2004 and became operative on July 16, 2004. That bill repealed Section 46-656.28 and replaced it with legislation providing for a revised process for addressing hydrologically connected surface water and ground water resources. In order to avoid the need to begin anew the integrated management planning processes that had been commenced but not completed under Section 46-656.28, LB962 provided for the transition of those ongoing planning processes into the newly enacted process codified now as Sections 46-713 to 46-719, R.S. Supp., 2004. The MRNRD and NDNR agreed that preparation of a joint action plan had not been completed prior to July 16, 2004; therefore, subsection (3) of what is codified as Section 46-720, R.S. Supp., 2004, governs that transition. Completion of this plan proceeded under the new process and this plan is being proposed for adoption in accordance with Section 46-718, R.S. Supp., 2004.

### **GOALS AND OBJECTIVES**

Pursuant to Section 46-715, R.S. Supp., 2004, the goals and objectives of an integrated management plan must have as a purpose "sustaining a balance between water uses and water supplies so that the economic viability, social and environmental health, safety, and welfare of the Republican River Basin can be achieved and maintained for both the near term and the long term". The following goals and objectives are adopted by the MRNRD and the NDNR to achieve that purpose:

#### **Goals:**

1. To assist the State of Nebraska, in cooperation with the other basin Natural Resources Districts, in maintaining compliance with the Republican River Compact as adopted in 1943 and as implemented in accordance with the settlement approved by the United States Supreme Court on May 19, 2003.
2. Ensure that ground water and surface water users within the MRNRD assume their share of the responsibility to keep Nebraska in compliance with the Republican River Compact. Neither the MRNRD

or NDNR will require the integrated management plan to be amended solely for the purpose of changing the responsibility of water users within the MRNRD based on the failure of the other basin NRDs to implement or enforce an integrated management plan to meet their share of the responsibility to keep Nebraska in compliance with the Republican River Compact.

3. Provide that MRNRD's share of that responsibility be distributed in an equitable manner and, by minimizing to the extent possible, adverse economic, social and environmental consequences.

Objectives:

1. With limited exceptions, prevent the initiation of new or expanded uses of water that increase Nebraska's computed beneficial consumptive use of water within the MRNRD.
2. Ensure that administration of surface water appropriations in the Basin is in accordance with the Compact and in full compliance with Nebraska law.
3. Reduce existing ground water use within the MRNRD by five (5) percent from the baseline of use that is established by utilizing 1998 to 2002 ground water pumping estimates and the associated streamflow depletions as computed through use of the RRCA Ground Water Model.
4. After taking into account any reduction in beneficial consumptive use achieved through basinwide incentive programs, make such additional reductions in ground water use in water short years as are necessary to achieve a reduction in beneficial consumptive use in the MRNRD in an amount proportionate to the total reduction in consumptive use that is needed in Nebraska above Guide Rock in such years.
5. Cause the required reductions in water use to be achieved through a combination of regulatory and incentive programs designed to reduce beneficial consumptive use, relying to the extent available funds allow, on incentive programs that are made available to as many MRNRD water users as possible.
6. The MRNRD and the NDNR will investigate or explore methods to manage the impact of vegetative growth on streamflow.

acres  
252,400  
pumping  
309,479

5%  
12,620 acres  
15,474 ac ft

**MAP - see map 1:**

The area subject to this integrated management plan is the geographic area within the boundaries of the Middle Republican Natural Resources District.

### **GROUND WATER CONTROLS**

The authority for the ground water component of this integrated management plan is Section 46-715 and Section 46-739, R.S. Supp., 2004. The ground water controls that will be adopted and implemented by the Middle Republican Natural Resources District are those found in Chapters 1 through 5 Rules and Regulations – Ground Water Management Area in the Middle Republican Natural Resources District

### **SURFACE WATER CONTROLS - Department of Natural Resources**

The authority for the surface water component of this integrated management plan is Section 46-715 and Section 46-716 R.S. Supp., 2004. The surface water controls that will be continued and/or begun by the NDNR are as follows:

1. NDNR will do the following additional surface water administration as required by the Settlement Agreement:
  - To provide for regulation of natural flow between Harlan County Lake and Superior-Courtland Diversion Dam, Nebraska will recognize a priority date of February 26, 1948 for Kansas Bostwick Irrigation District, the same priority date as the priority date held by the Nebraska Bostwick Irrigation District's Courtland Canal water right.
  - When water is needed for diversion at Guide Rock and the projected or actual irrigation supply is less than 130,000 acre feet of storage available for use from Harlan County Lake as determined by the Bureau of Reclamation using the methodology described in Harlan County Lake Operation Consensus Plan attached as Appendix K to the Settlement Agreement, Nebraska will close junior, and require compliance with senior, natural flow diversions of surface water between Harlan County Lake and Guide Rock.
  - Nebraska will protect storage water released from Harlan County Lake for delivery at Guide Rock from surface water diversions.
  - Nebraska, in concert with Kansas and in collaboration with the United States, and in the manner described in Appendix L to the Settlement Agreement, will take actions to minimize the bypass flows at Superior-Courtland Diversion Dam.
2. Metering of all surface water diversions at the point of diversion from the stream will continue to be required. For surface water canals that are not part of a Bureau of Reclamation project, farm turnouts also will be required to be metered by the start of the 2005 irrigation season. All meters shall have a totalizer and shall meet Department standards for installation, accuracy and maintenance. All appropriators will be monitored closely to ensure that neither the rate of diversion nor the



annual amount diverted exceeds that allowed by the applicable permit or by statute.

3. The Department's moratorium on the issuance of new surface water permits was made formal by order of the Director dated July 15, 2004 and will be continued. Exceptions may be granted to the extent permitted by Section 46-714(3) or to allow issuance of permits for existing reservoirs that currently do not now have such permits. Such reservoirs may be identified through the Settlement required inventory of over 15 acre-feet reservoirs or otherwise.
4. All proposed transfers of surface water rights shall be subject to the revised criteria for such transfers as found in Sections 46-290 to 46-294.04 or the criteria found in Sections 46-2,120 to 46-2,130.
5. The Department completed the adjudication process for the individual appropriators in the Republican River Basin in 2004. The results of that adjudication provide up-to-date records of the number and location of acres irrigated with surface water by such appropriators. Those records will be used by the Department to monitor use of surface water and to make sure that unauthorized irrigation is not occurring. The Department also will be proactive in initiating subsequent adjudications whenever information available to the Department indicates that there are water rights that are not being used and for which no known sufficient cause for such non-use exists.
6. At this time, due to the already limited availability of surface water supplies, the Department will not require that surface water appropriators apply or utilize additional conservation measures or that they be subject to other new restrictions on surface water use. However, the Department reserves the right to request, in the future, that this integrated management plan be modified to require any such additional measures. In the event such a request is made, the Department will "allow the affected surface water appropriators and surface water project sponsors a reasonable amount of time, not to exceed one hundred eighty days, unless extended by the Department, to identify the conservation measures to be applied or utilized, to develop a schedule for such application and utilization, and to comment on any other proposed restrictions." (46-716(2))

### **INCENTIVE PROGRAMS**

The MRNRD and NDNR intend to establish and implement financial or other incentive programs to reduce beneficial consumptive use of water within the MRNRD. As a condition for participation in an incentive program, water users or landowners may be required to enter into and perform such agreements or

covenants concerning the use of land or water as are necessary to produce the benefits for which the incentive program is established.

Such incentive programs may include any program authorized by state law and/or Federal programs such as the Conservation Reserve Enhancement Program (CREP) and Environmental Quality Incentives Program (EQIP) operated by the U.S. Department of Agriculture.

### **INFORMATION CONSIDERED**

Information used in the preparation and to be used in the implementation of this integrated management plan can be found in the simulation runs of the Republican River Compact Administration Ground Water Model, the data tables of the Final Settlement Stipulation for the Republican River Compact, Chapters 2 and 3 of the 1994 Middle Republican NRD Ground Water Management Plan and additional data on file with the District and the Department of Natural Resources.

**Map 1.** Management Area Boundaries




**Map 2.** Critical Unit

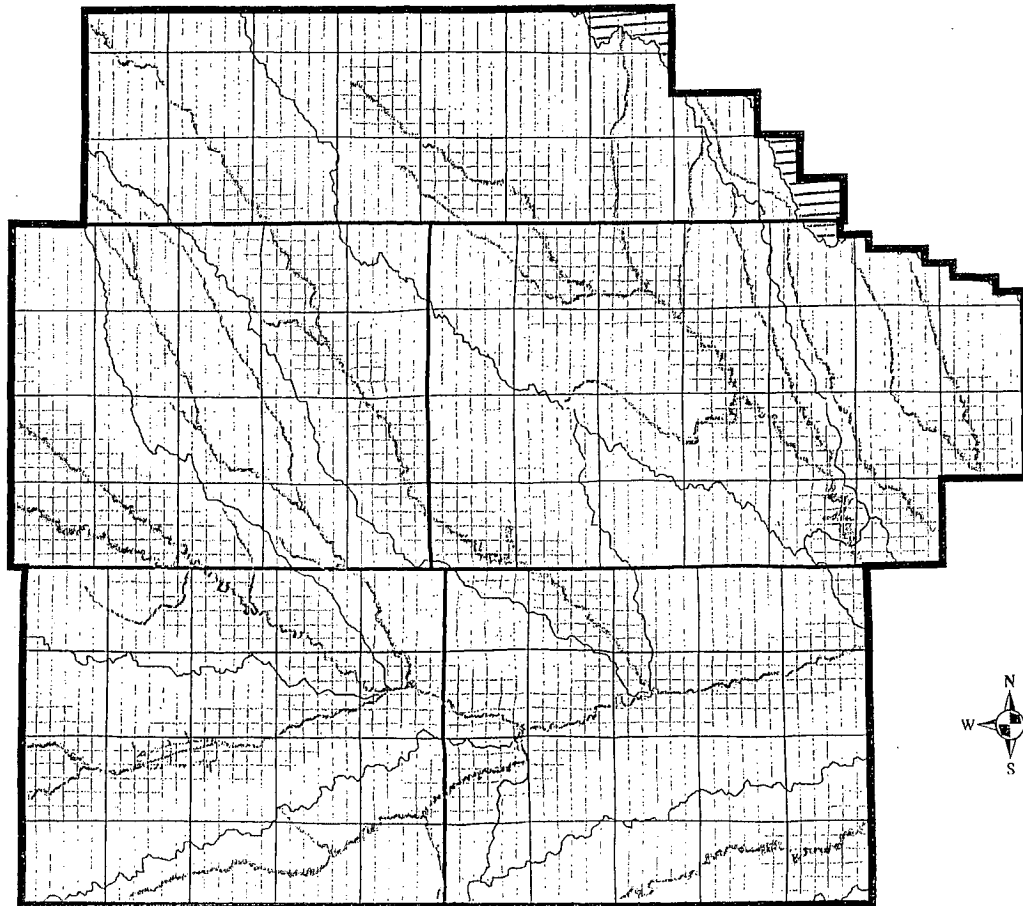
**Table 1.** Municipal Allocation

**Table 2.** Livestock operation allocations

# Map 1

Legend

-  MRNRD Boundary
-  Platte Area
-  MRNRD Quick Response



08/10/2004

## MRNRD Quick Response and Platte Areas

This map was created for informational purposes only.

# Map 2

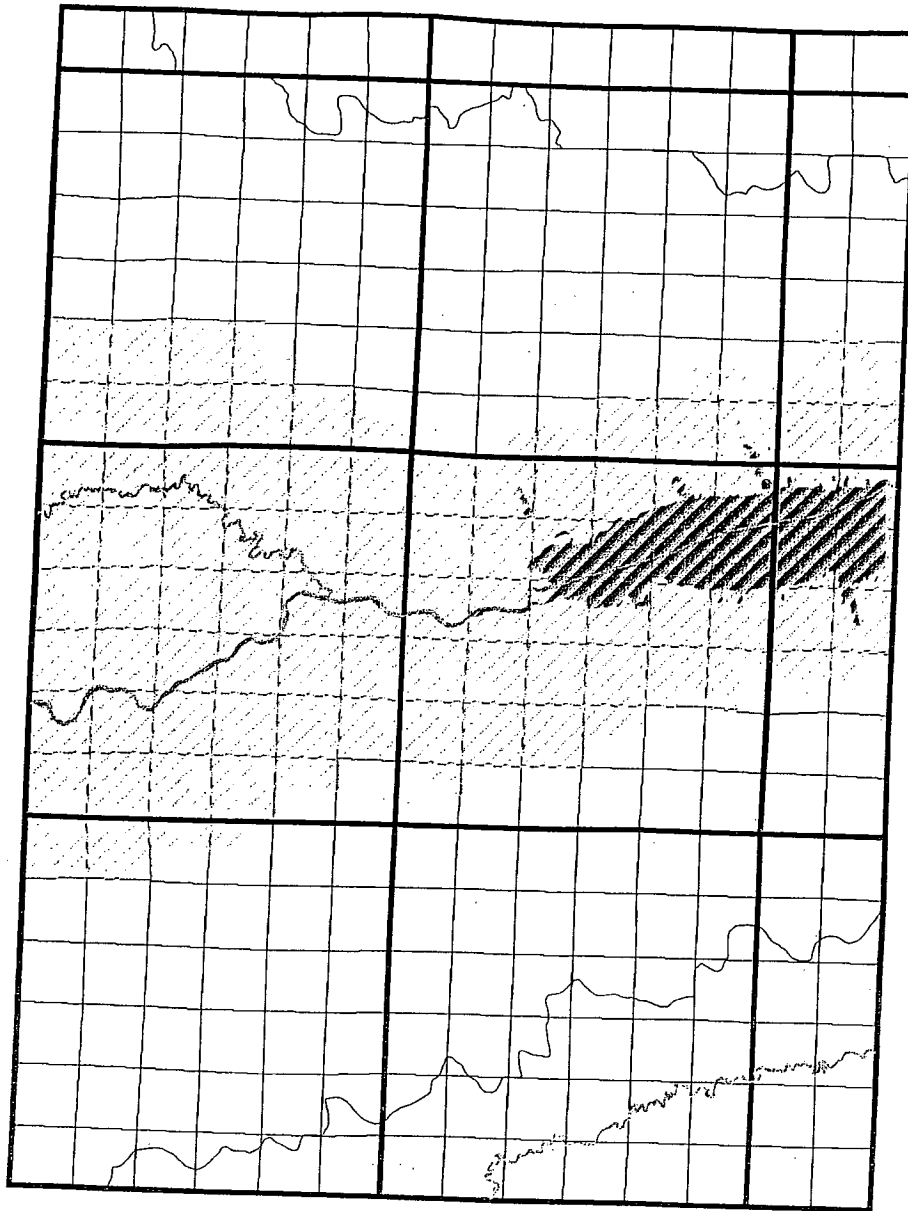
Legend



Swanson QR



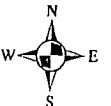
Swanson Lake



## Swanson Critical Unit

This map was created for informational purposes only.

Created 09/10/04



Middle Republican NRD  
October 2004

Community	2000 Census	Area Sq. mi.	Area Factor	Gallons/Person/Day			
				15"	14"	13"	12"
Bartley	355	0.7	3				
Culberston	594	0.9	4				
Curtis	832	1.3	6				
Danbury	127	0.9	4				
Hayes Center	240	0.7	3				
Indianola	642	1.2	5				
Lebanon	70	0.2	1				
Maywood	331	0.5	2				
McCook	7994	5.3	22				
Moorefield	52	0.2	1				
Palisade	386	0.4	2				
Stockville	36	0.3	2				
Stratton	396	0.4	2				
Trenton	507	0.6	3				
Wallace	329	0.7	3				

4.20

Average Town	859	0.95	4	873	814	756	698
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Table 1.

Maximum Reasonable Quantity of Water for Livestock and Poultry  
October 2004

	Drinking water gallon/head/day	Servicing/Flushing gallons/head/day	Quantity/1000 head cbc=1000
Cattle, beef	15	0 open lot	17 ac ft
	15	100 cbc	129 ac ft
Cattle, Dairy	35	100 cbc	151 ac ft
Swine	Nursery	4 cbc	6 ac ft
	Finishing	15 cbc	22 ac ft
	Sow&Litter	35 cbc	48 ac ft
	Gestating Sow	25 cbc	35 ac ft
Sheep	2	0 open lot	2.2 ac ft
	2	15 cbc	19 ac ft
Horses	12	0 open lot	13 ac ft
	12	100 cbc	125 ac ft
Poultry/100	Chickens	200 cbc	2.3 ac ft
	Turkeys	400 cbc	4.8 ac ft

Table 2.