Rules

and

Regulations

for the

LOWER NIOBRARA

NATURAL RESOURCES DISTRICT

The Erosion and Sediment Control Program Rules and Regulations are included in the District Rules and Regulations under Section 25. The Reporting Forms, Erosion and Sediment Complaint Flow Chart and Soil Loss Tolerances are appendixes to the Rules and Regulation so they can be adjusted as needed.

25. Erosion and Sediment Control Program

25.1. Authority: These rules and regulations are adopted pursuant to the authority granted in Section 2-4605, R.R.S. 1948, as amended.

25.2. Purpose: The purpose of these rules and regulations is to provide an orderly method for implementing the Erosion and Sediment Control Act, sections 2-4601 et. seq. R.R.S. 1943, as amended to provide for the conservation and preservation of the land, water and other resources of the District, and to thereby: a.) reduce damages caused from wind erosion, b.) reduce storm water runoff and the danger of flooding, c.) reduce sediment damage to lands within the District, d.) reduce non-point pollution from sedimentation and related pollutants, e.) preserve the value of land and its productive capability for present and future generations, and f.) safeguard the health, safety and welfare of the District's citizens.

25.3. Applicability: These rules and regulations apply to all lands within the District except to those lands which lie within the respective jurisdiction of a county or municipality which has adopted and is implementing erosion and sediment control regulations in substantial conformance with the state erosion and sediment control program. Some non-agricultural land-disturbing activities are also excluded and are identified in Rule 25.4, Section (h), sub-sections (2), (3), (4) and (5).

25.4. Definitions as Related the Erosion and Sediment Act:

25.4.1. Alleged violator means the owner of record and the operator, if any, of land which is the subject of a complaint filed in accordance with section 25.8.

25.4.2. Board means the Board of Directors of the Lower Niobrara Natural Resources District.

25.4.3. Committee means the Erosion and Sediment Committee of the Lower Niobrara Natural Resources District.

25.4.4. Conservation Agreement means an agreement between the owner and operator, if any, of a farm unit and the District in which the owner and operator, if any, agrees to implement all or a portion of a farm unit conservation plan. The agreement shall include a schedule for implementation and may be conditioned on the District or other public entity furnishing technical, planning or financial assistance in the establishment of the soil and water conservation practices necessary to implement the plan or portion of the plan.

25.4.5. District means the Lower Niobrara Natural Resources District.

25.4.6. Excess Erosion means the occurrence of erosion in excess of the applicable soil-loss tolerance level which causes or contributes to an accumulation of sediment upon the lands of any other person to the detriment or damage of such other person.

25.4.7. Farm Unit conservation plan means a plan jointly developed by the owner and, if appropriate, the operator of a farm unit and the District. Such plan shall be based on the determined conservation needs of the farm unit and identification of practices which may be expected to prevent soil loss by erosion to the applicable soil-loss tolerance level. The plan may also, if practicable, identify alternative practices by which such objective may be attained.

25.4.7.1. Non-Agricultural Land-Disturbing Activity means a land change including, but not limited to, tilling, clearing, grading, excavating, transporting, or filling land which may result in soil erosion from wind or water and the movement of sediment and sediment-related pollutants into the waters of the state or onto lands in the state, but shall not include: a.) Activities related directly to the production of agricultural, horticultural or silvicultural crops, including, but not limited to, tilling, planting, or harvesting of such crops; b.) Installation of above ground public utility lines and connections, fence posts, sign posts, telephone poles, electric poles, and other kinds of posts or poles; c.) Emergency work to protect life or property; and d.) Activities related to the construction of housing, industrial, and commercial developments on sites under two acres in size; and e.) Activities related to the operation, construction, or maintenance of industrial or commercial public power district or public power and irrigation district facilities or

sites when such activity is conducted pursuant to state of federal law or is part of the operational plan for such facility or site.

25.4.8. Sediment Damage means: a.) the economic or physical damage to the land or other property of one person resulting from the deposition of sediment, by water or wind, or soil eroded from the lands of another person; b.) the degradation of water quality and/or the reduced beneficial use of the water in the stream or lake involved resulting from soil sedimentation or the deposition of chemical laden sediments. For the purpose of this program, chemicals shall include, but is not limited to, any agricultural, municipal, or industrial chemicals or waste deposited on the soil. c.) Physical effects to land or property which are relatively short term in nature and which cause no economic damage and no lasting physical damage shall not constitute sediment damage for the purpose of these rules and regulations.

25.5. Soil-Loss Tolerance Level means the maximum amount of soil loss due to erosion by wind or water, expressed in terms of tons per acre per year, which is determined to be acceptable in accordance with the Erosion and Sediment Control Act. Soil loss from water erosion may include: a.) sheet and rill erosion which includes relatively uniform soil loss across the entire field slope which may leave small channels located at regular intervals across the slope and; b.) ephemeral gully erosion which occurs in well-defined depressions or natural drainage ways where concentrated overland flow results in the convergence of rills forming deeper and wider channels.

25.6. T value means the average annual tons per acre soil loss that a given soil may experience and still maintain its productivity over an extended period of time.

25.7. Soil-Loss Tolerance Level: USDA Soil Survey data provides value of soil loss tolerance (T) for various soil series across the District and are described as Soil-Loss Tolerance Levels in the NRCS TECHNICAL GUIDES. These soil-loss tolerance levels for the soils of the District have been adopted by the Board and are attached hereto as Appendix 20. Each soil series listed may contain one or more soil mapping units-referred to in Rule 25.10. The permitted soil-loss tolerance levels for particular lands may not exceed the T value noted in Appendix 20.

25.8. Administration: The Board delegates the responsibility for administering these rules and regulations to the District Manager except to the extent Board action is specifically required by these rules and regulations or by law. The following duties shall be performed by or under the direction of the District Manager.

25.8.1. Keep an accurate record of all complaints received, investigations made, and other official actions.

25.8.2. Investigate all complaints made in writing to the District Office relating to the application of these rules and regulations and report in writing all alleged violations to the Board. (See Appendix 10)

25.8.3. Monitor compliance with all farm unit conservation plans approved and orders issued by the Board.

25.8.4. Except to the extent jurisdiction has been assumed by a municipality or county in accordance with section 2-4606, and after a written and signed complaint has been made, the District Manager and such staff as he or she shall designate shall have the following powers and responsibilities:

25.8.4.1. At any reasonable time, after notice to the owner and operator, if any, to enter upon any public or private lands within the area affected by these rules and regulations for the purpose of investigating complaints and to make inspections to determine compliance. The owner, operator, if any, and any other necessary technical personnel and representatives of the District may accompany the inspector.

25.8.4.2. Upon reasonable cause, to report to the Board any violations of any administrative order issued by the Board pursuant to Section 2-4608, R.R.S. 1943, as amended, and these rules and regulations,

25.8.4.3. At the direction of the Board, and in accordance with Section 25.13 and 25.18, to commence any legal proceedings necessary to enforce these rules and regulations and any order issued pursuant to them.

25.9. Violation: A violation of these rules and regulations exists if: a.) sediment damage is occurring; b.) average annual soil losses on the land which is the source of that damage are exceeding the soil-loss tolerance level adopted in rule 25.5; c.) the activity causing the soil loss is not an exempted non-agricultural land distributing activity (Rule 25.4.7.1 b.) to e.) and d.) the land which is the source of the damage is not in strict compliance with a conservation agreement approved by the District.

25.10. Complaint: A complaint alleging that soil erosion is occurring in excess of the soil loss tolerance level or that sediment damage is occurring, may be filed in the District office by: a.) any owner or operator of land damaged by sediment, b.) any authorized representative of a state agency or political subdivision whose roads or other public facilities are being damaged by sediment, c.) any authorized representative of a state agency or political subdivision with responsibility for water quality maintenance if it is alleged that the soil erosion complained of is adversely affecting water quality, or d.) any District staff member, or other person authorized by the Board to file complaints.

25.10.1. Complaints shall be made in writing and signed on a form provided by the director.

25.11. Investigation of Complaint:

25.11.1. Upon receipt of a properly filed complaint, a representative of the District shall notify the alleged violator within ten (10) days that a complaint has been filed and that an investigation will be initiated to determine whether a violation of these rules and regulations has occurred. The investigation shall take place as soon as possible after the complaint has been filed and notice given. The alleged violator shall be given an opportunity to accompany the person conducting the investigation.

25.11.2. If a farm unit conservation plan previously approved by the District is being implemented and maintained in strict conformance with a conservation agreement including the land subject to the complaint, the complaint shall be dismissed. The alleged violator, complainant, and Board shall be notified.

25.11.3. Upon completion of the investigation, the investigator shall file a report of his or her findings with the Committee and shall provide copies to the alleged violator and the complainant. The report shall include: a.) the location and estimated acreage involved in the alleged violation; b.) the investigator's conclusions concerning the existence of any sediment damage and a description of the location and nature of any sediment damage identified; and c.) the location of land(s) which the investigator concludes are the source of the sediment, the nature of the land use on such lands, and the estimated average annual soil losses from such land(s).

25.11.4. The investigator may utilize the services of professional staff, consultants, or technicians of other state or federal agencies, if necessary.

25.12. Determination of Soil Loss:

25.12.1. Soil losses shall be determined by using the applicable portions of the then current version of the United States Department of Agriculture, Natural Resources Conservation Service Field Office Technical Guide to estimate the average annual sheet and rill erosion, ephemeral erosion or wind erosion.

25.12.2. The soil losses normally will be calculated on a soil survey mapping unit basis. If it is determined that soil loss in excess of the applicable soil loss tolerance level is occurring in the portion of one or more mapping units under the ownership and control of the alleged violator, they may not be averaged with other non-violating units for the purpose of determining overall soil loss.

25.12.3. If it is determined that the sediment damage complained of is resulting from erosion from a land parcel smaller than the soil mapping unit, the soil loss equation in the Field Office Tech.
25.12.3.1. The guide may be applied to such smaller portion only if such portion is two acres or greater.
25.12.4. The cover and crop management factor, "C", used in calculating sheet and rill erosion may incorporate a cropping history of up to five years. Crop rotation patterns longer than five years but not more than ten years may be used for the purpose of planning future compliance with soil loss tolerance levels but exceeding the limits may not be planned for more than two consecutive years. Soil losses from irrigation and gully erosion may also be determined by using acceptable scientific procedures and may, if deemed appropriate by the Board, be added to soil losses for sheet and rill, ephemeral and wind erosion. Soil losses from streambank erosion shall not be calculated and these rules and regulations are not applicable to this type of erosion. Application of the soil loss equation formulas will be made by someone whose qualifications to make such determinations can be supported in court.
25.13. Committee and Board Action:
25.13.1. The committee shall assist the District staff in administering these rules and regulations and make determinations as to whether a probable violation of these rules and regulations has or has not occurred. Such determination shall be based upon the investigator's report completed pursuant to Section 25.9 and an on-site inspection by the committee, if warranted. The committee shall report its findings to the Board, the alleged violator and the complainant with a recommendation of further action as follows:
25.13.2. If the staff and committee determines that no violation of these rules and regulations has occurred, it shall recommend and the Board may approve dismissal of the complaint. The complainant shall be given the opportunity to appear before the entire Board before the Board acts on the recommendation.
25.13.3. If the committee determines that a farm unit conservation plan previously approved by the District is being implemented and maintained in strict conformance with a conservation agreement including the land subject to the complaint, it shall recommend and the Board may approve dismissal of the complaint.
25.13.4. If the committee determines that a probable violation of these rules and regulations has occurred, it shall proceed in accordance with Section 25.12.
25.14. Notice of Violation: If the committee determines that a probable violation of these rules and regulations has occurred, the alleged violator shall be informed of its findings by letter delivered in person or sent by registered or certified mail. The letter shall specify the options available to the alleged violator, including:
25.14.1. The alleged violator shall be given an opportunity to contact the District within ten days after receipt of notice concerning the development of a plan and schedule for eliminating excess erosion and sedimentation from the land that generated the complaint. If appropriate at this time, alternative practices for inclusion in a plan may be suggested. Information on cost-share programs and an indication of whether cost-share money is available may also be supplied.
25.14.2. The alleged violator shall be given an opportunity to contest the committee's findings at a regularly scheduled Board meeting or, if desired, a Board hearing to be held no sooner than fifteen days after receipt of notice. Notice of the date shall be given. The alleged violator may request a formal public hearing within ten (10) days of receipt of notice. The District's rules for formal adjudicatory hearings shall govern the conduct of all such hearings.
25.14.3. The alleged violator shall be further notified that if he or she does not respond to the notice and does not appear at the Board meeting for which notice was given, the Board shall

proceed in accordance with Rule 25.15 in his or her absence to make a final determination on the complaint and issue an administrative order if the Board concludes that a violation has occurred.

25.15. Development and Approval of Plan for Compliance:

25.15.1. If the alleged violator contacts the District pursuant to Section 25.12 (a) and indicates a desire to jointly develop either a farm unit conservation plan or a plan for eliminating excess erosion on or sedimentation from the land that generated the complaint, Board action on the complaint shall be delayed until further action is taken by the committee pursuant to (b) or (d) of this Rule. The District Manager and the alleged violator shall promptly secure the assistance of the Natural Resources Conservation Service (NRCS) or such other professional resource planners as are deemed necessary to assist in preparation of such a plan and shall attempt to prepare a mutually acceptable plan in accordance with the NRCS Field Office Technical Guide. Any plan developed in accordance with this section shall identify, as applicable, the soil and water conservation practice(s) or erosion and sediment control practice(s) to be applied or utilized and shall be accompanied by a proposed conservation agreement setting forth a schedule for compliance.

25.15.2. Any plan developed by the alleged violator and the District Manager shall be presented to the committee. If the committee agrees to the proposed plan and to the accompanying conservation agreement, the Board may thereafter approve such plan and agreement. The complainant shall be notified of such action. In considering the schedule for compliance contained within the conservation agreement, the Board may approve a longer time for compliance than would be permissible if an order were issued pursuant to Section 12.15, but shall not do so without consideration of the nature and extent of any additional sediment damages the complainant is likely to suffer until the plan has been fully implemented.

25.15.3. Strict conformance with a plan and agreement approved pursuant to this Rule shall be deemed compliance with these rules and regulations for the lands which are subject to the agreement.

25.15.4. If no mutually acceptable plan and conservation agreement have been prepared by the alleged violator and the District manager within an acceptable time period or if the committee concludes at any time that progress is not being made and is no longer likely on preparation of such a plan, the complaint shall be again referred to the Board and the alleged violator shall be so notified in person or by registered or certified mail and shall be given the information and option described in Section 12.12.1.2. For purposes of this rule, acceptable time period shall mean (1) 90 days for alleged violations involving agricultural, horticultural, or silvicultural activities and (2) 15 days for alleged violations involving non-agricultural land distributing activities.

25.15.5. Following refusal of a landowner to discontinue an activity causing erosion which constitutes a violation in Section 25.7, and to establish a plan and schedule for eliminating excess erosion pursuant to these rules, and if the immediate discontinuance of such activity is necessary to reduce or eliminate damage to neighboring property, the District may petition the District court for an order to the owner and, if appropriate, the operator, to immediately cease and desist such activity until excess erosion can be brought into conformance with the soil-loss tolerance level or sediment resulting from excess erosion is prevented from leaving the property.

25.16. Practices:

25.16.1. Practices designed to reduce or control soil erosion or sediment damage may be approved in developing a plan under Section 12.13 and may be required by the District in an administrative order pursuant to Section 12.15.

25.16.2. Soil and water conservation practices, applicable only to land used for agricultural, horticultural, or silvicultural purposes, may include:

25.16.2.1. Permanent practices, such as the planting of perennial grasses, legumes, shrubs, or trees, the establishment of grassed waterways, the construction of terraces, grade control structures, tile outlets, and other practices approved by the District.

25.16.2.2. Temporary soil and water conservation practices, such as the planting of annual or biennial crops, use of strip-cropping, contour planting, conservation tillage or residue management system, and other cultural practices approved by the District.

25.16.3. The District shall maintain a complete list of approved permanent and temporary soil and water conservation practices as part of its local erosion and sediment control program.

25.16.4. Erosion and sediment control practices, which are applicable to activities other than agricultural, horticultural, or silvicultural activities, may include:

25.16.4.1. The construction or installation and maintenance of permanent structures or devices necessary to carry to a suitable outlet away from any building site, any commercial or industrial development or any publicly or privately owned recreational or service facility not served by a central storm sewer system, any water which would otherwise cause erosion in excess of the applicable soil-loss tolerance level and which does not carry or constitute sewage or industrial or other waste to a suitable outlet away from any development or facility not served by a central storm sewer system;

25.16.4.2. The use of temporary devices or structures, temporary seeding, mulching (including fiber mats, plastic, straw), diversions, silt fences, sediment traps or other measures adequate either to prevent erosion in excess of the applicable soil loss tolerable levels or to prevent excessive downstream sedimentation from land which is the site if it is directly affected by any non-agricultural land-distributing activity; or

25.16.4.3. The establishment and maintenance of vegetation upon the right-of-way of any completed portion of any public street, road, highway or the construction or installation thereon of permanent structures or devices or other measures adequate to prevent erosion on the right-of-way in excess of the applicable soil-loss tolerance level.

25.16.5. The District shall maintain a complete list of approved erosion and sediment control practices as part of its local erosion and sediment control program.

25.17. Order: If, after Board consideration of the complaint at a meeting or hearing for which the alleged violator has been given notice in accordance with Section 12.12, the Board finds that sediment damage has occurred, that average annual erosion on the land which is the source of the damage is occurring in excess of the applicable soil-loss tolerance level(s), and that a conservation plan has not been developed nor is being implemented according to a conservation agreement, it shall issue an administrative order to the violator stating:

25.17.1. The date of the order,

25.17.2. The identity of the source of the violation and its location;

25.17.3. The authority of the Board to issue such order;

25.17.4. The specific findings, including (i) the estimated average annual soil loss and the extent to which erosion exceeds the applicable soil-loss tolerance level and, (ii) the nature of the sediment damage or water quality impairment resulting from such excessive erosion;

25.17.5. If desired by the Board, the alternative soil and water conservation practices or erosion and sediment control practices required to bring the land into conformance with these rules and regulations. When the erosion is the result of agricultural, horticultural, or silvicultural activities, the soil and water conservation practices required shall be those necessary to bring the land into conformance with the applicable soil-loss tolerance level. Where the erosion complained of is the result of a non-agricultural land-distributing activity, the Board may authorize the violator to either bring the land into conformance with applicable soil loss tolerance level or to prevent sediment resulting from excessive erosion from leaving the land;

25.17.6. Any requirements concerning the operation, utilization, or maintenance of the

alternative practices identified;

25.17.7. The deadlines for commencing and completing work necessary to comply with this order: a.) The time for initiating work needed to establish the necessary soil and water conservation practices or permanent erosion and sediment control practices shall not exceed six months after service or mailing of the order to the violator and shall be completed no later than one year after service or mailing of the order to the violator unless an extension has been granted upon a showing of good cause; b.)The time for initiating work for temporary erosion and sediment control practices for nonagricultural land-distributing activities shall be not less than five (5) days nor more than fifteen (15) days after service or mailing of the order and shall be completed not longer than forty-five (45) days after service or mailing unless an extension has been granted upon a showing of good cause. An extension shall only be granted after review and affirmative action of the Board.

25.17.8. The action to be taken by the Board if the violator does not comply.

25.17.9. A copy of the dismissal or administrative order shall be delivered to the owner and to the operator, if any, of the land in question by personal service or certified or registered mail.

25.18. Cost-Share Assistance: To prevent excess erosion and sediment from leaving the land due to any agricultural or nonagricultural land-disturbing activity, cost-share assistance may be available from the District. Such assistance, if available, may be used for any erosion or sediment control practice. The lack of available cost-sharing assistance does not offset the requirement that the owner and, if appropriate, the operator of such land comply with the terms of an approved plan of compliance or an administrative order.

25.19. Supplemental Orders: The Board may issue supplemental orders, as necessary, to extend the time of compliance with an administrative order if, in its judgment, the failure to commence or complete work as required by the administrative order is due to factors beyond the control of the person to whom the order is directed and the person can be relied upon to commence and complete the necessary work at the earliest possible time.

25.20. Non-Compliance: Subject to any limitations imposed by the Board, the District Manager may cause the District to commence legal proceedings by filing a petition in the name of the District in the District Court in which a majority of the land is located requesting a court order requiring immediate compliance with the administrative order or any supplemental order issued previously, if he or she has reasonable cause to believe after inspection that an administrative order issued previously by the Board is not being complied with because:

25.20.1. The work necessary to comply with the order is not commenced on or before the date specified in the order or in any supplemental orders;

25.20.2. The work is not being performed with due diligence, is not satisfactorily completed by the date specified in the order, or is not being operated, utilized, or maintained in accordance with requirements set forth in the order;

25.20.3. The work is not of a type or quantity specified by the District, and when completed, it will not or does not reduce soil loss to within the applicable soil-loss tolerance level for the identified land or, in the case of non-agricultural land-distributing activity, will not or does not prevent sediment resulting from excessive erosion from leaving the land involved, or

25.20.4. The person to whom the order is directed informs the District that he or she does not intend to comply.

APPENDIX 10: FORM 1

Lower Niobrara NRD Erosion & Sediment Control Program

NOTICE OF FILING OF COMPLAINT AND INSPECTION DATE

COMPLAINT NO. _____

DATE: _____

NAME: _____ ADDRESS: _____

A complaint has been filed with the Lower Niobrara Natural Resources District by (*name of complainant*) stating that sediment damages have occurred on (*his/her/their*) property and alleging that this sediment is originating for soil erosion occurring on your lands at an excess rate. The tract of land against which the complaint was filed is described as follows: (*legal description*).

In order to determine the validity of this complaint, it will be necessary for the District Board of Directors and their agents to inspect this tract of land to ascertain whether such excess soil loss is actually occurring. This inspection will be made on (*date*) at (*time*). You are invited to accompany the inspection team.

This letter is sent in compliance with the notice requirements of Section 2-4608 of the Revised Statutes of Nebraska and Rule (_____) of the Rules and Regulations of the (_____) Natural Resources District. You will be sent a copy of the inspection report when completed. If you have any questions, please contact me at our District office: (*contact information*).

Signature:_____, General Manager

Lower Niobrara Natural Resources District

APPENDIX 11: Lower Niobrara NRD Erosion & Sediment Control Program FORM 2

NOTICE OF VIOLATION

COMPLAINT NO. _____

DATE: _____

NAME: _____ ADDRESS: _____

You were notified on (*date*) that a complaint had been filed with the Lower Niobrara Natural Resources District by (*name*) alleging that sediment originating from excess rates of soil erosion on your land was causing sediment damages on (*his/her/their*) property. An inspection of these lands was conducted on (*date*).

Based on this inspection and the report of the investigator, the Committee designated by the District Board for this purpose, has determined that there is reasonable cause to believe that sediment damages have occurred and were the result of soil loss from your land in excess of the tolerance level established by the District in violation of the Erosion and Sediment Control Rules and Regulations.

The portions of your land believed to be in violation are identified on the map which is included in the investigator's report accompanying this notice.

You are further advised that you have two options at this point.

1. Should you develop an acceptable conservation plan or erosion and sediment control plan to eliminate excess erosion on the areas of your land, which are in violation, and sign a conservation agreement with the District, no further action will be taken on this complaint, provided that you remain in compliance with the plan and agreement. Cost-share assistance may be available for installation of permanent soil and water conservation practices at a cost-share rate set by the counties FSA boards or the District. If you are interested in pursuing this option, you must contact the District office within 10 days after receiving this notice. We are ready to assist you in developing a plan.
2. Should you wish to contest the findings in the report and/or the conclusions of the Committee, you are entitled to do so at a meeting of the District Board (*date and time*) at (*location*). If you wish to have a formal adjudicatory hearing, you must request it within 10 days after receiving this notice. Hearing information will be provided to you.

Finally, you are advised that if you do not respond to this notice in either of the preceding ways, the District Board shall proceed to make a final determination on the complaint, and if appropriate, issue an administrative order requiring you to correct the excess erosion, which may be enforced by court action as prescribed by law.

We encourage you to select the first option and we remain ready to assist you in eliminating the excess erosion on your land.

Signature: _____

Print: _____

APPENDIX 12 : Lower Niobrara NRD Erosion & Sediment Control Program FORM 3

CONSERVATION AGREEMENT

COMPLAINT NO. _____

DATE: _____

NAME: _____ ADDRESS: _____

LEGAL: _____ COUNTY: _____

This agreement is made and entered into this __day of _____, 20____, by and between the Lower Niobrara Natural Resources District, herein called DISTRICT, and _____ _____, herein called COOPERATOR; and is executed to satisfy the

requirements of Nebraska Revised Statute Section 2-4603(2) and should be interpreted and performed in a manner which promotes the policies of the Nebraska Erosion and Sediment Control Act, Nebraska Revised Statutes Sections 2-4601 to 2-4613.

WITNESSETH:

COOPERATOR agrees to implement the farm unit conservation plan (or a portion of the farm unit conservation plan), or in the case of nonagricultural land-disturbing activities, an erosion and sediment control plan, attached to this agreement according to the Schedule for Completion accompanying the plan. Both the plan and schedule are incorporated herein by reference.

DISTRICT agrees to provide assistance to COOPERATOR in applying the plan to COOPERATOR'S farm and furnish, as available, technical and financial assistance, equipment, and materials to COOPERATOR at rates established by DISTRICT.

DISTRICT AND COOPERATOR mutually agree that:

1. Compliance with this agreement shall be deemed compliance with the requirements of the Nebraska Erosion and Sediment Control Act and the erosion and sediment control program approved by the District.

2. Cost-share for erosion and sediment control practices may be available from the DISTRICT. However, lack of available cost-share assistance does not offset the requirement that the COOPERATOR implement this farm unit conservation plan in the timed prescribed.

3. Neither DISTRICT nor COOPERATOR shall be liable for damages to the other in connection with the performance of this agreement unless such damages are caused by negligence or misconduct.

4. This agreement may be amended upon thirty days notice.

This agreement shall be in effect when signed by both parties and remain in effect unless it is terminated by either party by giving sixty days notice in writing to the other party.

_____ Date: _____

Owner/Operator

_____

Address

_____ Date: _____

Lower Niobrara Natural Resources District

APPENDIX 13: Lower Niobrara NRD Erosion & Sediment Control Program FORM 3a

CONSERVATION PLAN FOR COMPLETION

AND

COOPERATOR'S RECORD OF COMPLIANCE

COMPLAINT NO. _____

DATE: _____

NAME: _____ ADDRESS: _____

LEGAL: _____ COUNTY: _____

Attach photograph, map, or diagram designating fields or tracts involved by number.

A. Planned

1. *Record land use planned by field or tracts listing conservation practice(s) and/or resource management systems to be applied. Describe briefly, what will be done and how it will be done.*

2. *Indicate the amount of conservation practices planned and completion date(s).*

B. Practice(s) Completion

1. *Indicate conservation practice(s) completed and completion date(s).*

Cooperator: _____ Date: _____

Preparer: _____ Date: _____

APPENDIX 14 Lower Niobrara NRD Erosion & Sediment Control Program FORM 4

ADMINISTRATIVE ORDER

COMPLAINT NO. _____

DATE: _____

NAME: _____ ADDRESS: _____

The District Board has considered this complaint and makes the following findings:

1. On (*date*) this complaint was filed in the District office by (*complainant*) alleging that sediment damage (*has occurred/was occurring*) on (*his/her/their*) property and further alleged that sediment originating from excess erosion on the land of (*alleged violator*) was causing this damage. The District notified (*alleged violator*) of this complaint by letter dated (*date*).

2. On (*date*), as requested by the District investigator, (*inspector*) inspected the lands of (*complainant*) and (*alleged violator*) filed a report with the Committee of the Board designated for this purpose.

3. On (*date*) the Committee notified (*alleged violator*) of its preliminary finding of probable violation of the Rules and Regulations of the District.

4. The District General Manager or appropriate designee and (*alleged violator*) have attempted to develop mutually a conservation plan or erosion and sediment control plan for the lands which are the subject of this complaint but have been unable to reach agreement. The Committee properly concluded that no progress was being made or likely to be made on preparation of an acceptable plan.

-or-

4a. The District Board held a public hearing on this complaint on (*date*) as requested by (*alleged violator*). (Summarize).

-or-

4b. (*alleged violator*) did not respond to the Notice of Violation.

The District Board further FINDS:

1. Sediment damage has occurred on the land of (*complainant*). (Describe).

2. The source of this sediment damage is the land of (*alleged violator*). The average annual soil loss on (*alleged violator's*) land, determined by using the NRCS Technical Guides, is estimated to be (

rate), which is in excess of the applicable soil-loss tolerance level(s) of (*established rate*) for soil series ( ) adopted in Rule 25 of the District's Rules and Regulations.

Based on the foregoing findings, the District Board CONCLUDES:

1. The land of (*alleged violator*) is in violation of the Rules and Regulations of the

District and the Nebraska Erosion and Sediment Control Act.

Therefore, by virtue of the authority vested in the District Board by Nebraska Revised Statute Section 2-4608, the District Board ORDERS:

(For agricultural land)

1. (*alleged violator*) shall bring those areas of (*his/her/their*) land which exceed the applicable soil-loss tolerance level(s) into conformance with the Rules and Regulations of the District. The District Board has determined that implementation of the following alternative soil and water conservation practices will bring the land into conformance and which may be used to comply with this order. (List two or more practices).

Work needed to establish these practices must be commenced (*date*) (no later than six (6) months after service or mailing of this order) and satisfactorily completed by (*date*) (no later than one year after service of mailing of this order).

2. (*alleged violator*) is hereby advised that should the work required by this order to correct the erosion, which is occurring not be initiated and satisfactorily completed by the time specified in this order or should (*alleged violator*) advise the District that (*he/she/they*) (*does/do*) not intend to comply with this order, the District Board will commence proceedings to enforce this order as prescribed by law.

-or-

(For non-agricultural Land-Disturbing Activity)

1. (*alleged violator*) shall either bring those areas of (*his/her/their*) land which exceed the applicable soil-loss tolerance level(s) into conformance with the District Rules and Regulations or prevent sediment resulting from excess erosion from leaving said land areas. The following erosion and sediment control practices will accomplish this and may be used to comply with this order. (List two or more practices).

Work necessary to establish these practices must be initiated by (*date*) (shall not exceed five (5) days after service or mailing of the order). Temporary practices shall be satisfactorily completed by

(*date*) (no longer than fifteen (15) days after service or mailing of this order) and permanent practices shall be satisfactorily completed by (*date*) (no longer than forty-five (45) days after service or mailing of the order unless an extension has been granted upon a showing of good cause. An extension shall only be granted after review and affirmative action of the Board.

2. (*alleged violator*) is hereby advised that should the work required by this order to correct the erosion, which is occurring not be initiated and satisfactorily completed by the time specified in this order or should (*alleged violator*) advise the District that (*he/she/they*) (*does/do*) not intend to comply with this order, the District Board will commence proceedings to enforce this order as prescribed by law.

Chairperson: _____

Lower Niobrara Natural Resources District

APPENDIX 15 Lower Niobrara NRD Erosion & Sediment Control Program FORM 5a

DISMISSAL OF VERBAL COMPLAINT, CONSERVATION AGREEMENT APPLIES

COMPLAINT NO. _____

DATE: _____

NAME: _____ ADDRESS: _____

The Lower Niobrara Natural Resources District's Investigator having found that (*name*):

1. Has land which was the subject to the complaint filed by (*name*) on (*date*), from which soil loss is not exceeding soil-loss tolerance levels, or

2. Has a farm unit conservation plan or erosion and sediment control plan covering the land subject to the complaint filed by (*name*) on (*date*), and

3. Is implementing said plan in strict compliance with a conservation agreement signed with the District on (*date*), and therefore said complaint is dismissed.

Signature: _____

Print: _____

Title: _____

APPENDIX 16 Lower Niobrara NRD Erosion & Sediment Control Program FORM 5b

DISMISSAL OF COMPLAINT, CONSERVATION AGREEMENT APPLIES

COMPLAINT NO. _____

DATE: _____

NAME: _____ ADDRESS: _____

The Lower Niobrara Natural Resources District's Investigator having found that (*name*):

1. Has a farm unit conservation plan or erosion and sediment control plan covering the land subject to the complaint filed by (*name*) on (*date*), and

2. Is implementing said plan in strict compliance with a conservation agreement signed with the District on (*date*), dismisses said complaint.

Signature: _____

Print: _____

Title: _____

APPENDIX 17 Lower Niobrara NRD Erosion & Sediment Control Program FORM 6

DISMISSAL OF COMPLAINT, AFTER FINDINGS

COMPLAINT NO. _____

DATE: _____

NAME: _____ ADDRESS: _____

The District Board has considered this complaint and makes the following FINDINGS:

1. On (*date*), this complaint was filed in the District office by (*complainant*) alleging that sediment damage has (*occurred/was occurring*) on (*his/her/their*) property and further alleged that sediment originating from excess erosion on the land of (*alleged violator*) was causing this damage. The District notified (*alleged violator*) of this complaint by letter dated (*date*).

2. On (*date*), the District investigator (*inspector*), inspected the lands of (*complainant*) and (*alleged violator*) and filed a report with the Committee of the board designated for this purpose.

3. On (*date*), the Committee notified (*alleged violator*) of its preliminary findings of probable violation of the Rules and Regulations of the District.

4. The District and (*alleged violator*) have attempted to develop mutually a conservation plan or erosion and sediment control plan for the lands, which are the subject of this complaint but have been unable to reach agreement. The Committee properly concluded that no progress was being made or

likely to be made on preparation of an acceptable plan.

-or-

4a. The District Board held a public hearing on this complaint on (*date*), as requested by (*alleged violator*). (Summarize briefly).

-or-

4b. (*alleged violator*) did not respond to the Notice of Violation. The District Board further finds:

1. Sediment damage (*has not/has*) occurred on the land of (*complainant*). (Describe).

2. The average annual soil loss on (*alleged violator's*) land, determined by using the NRCS Technical Guides, is estimated to be (*rate*), which (*is/is not*) in excess of the applicable soil-loss tolerance level(s) of (*established rate*) for soil series ( ) adopted in Rule ( ) of the District's Rules and Regulations.

Based on the foregoing findings, the District Board CONCLUDES:

1. The land of (*alleged violator*) is not in violation of the Rules and Regulations of the District and the Nebraska Erosion and Sediment Control Act.

Therefore, the District Board dismissed this complaint.

Chairman: _____

Lower Niobrara Natural Resources District

APPENDIX 18 Lower Niobrara Natural Resources District

FORM 7

Erosion & Sediment Control Program

COMPLAINT CHECKLIST

Complaint #: _____	Complainant: _____
Date Form Filed: _____	Alleged Violator: _____

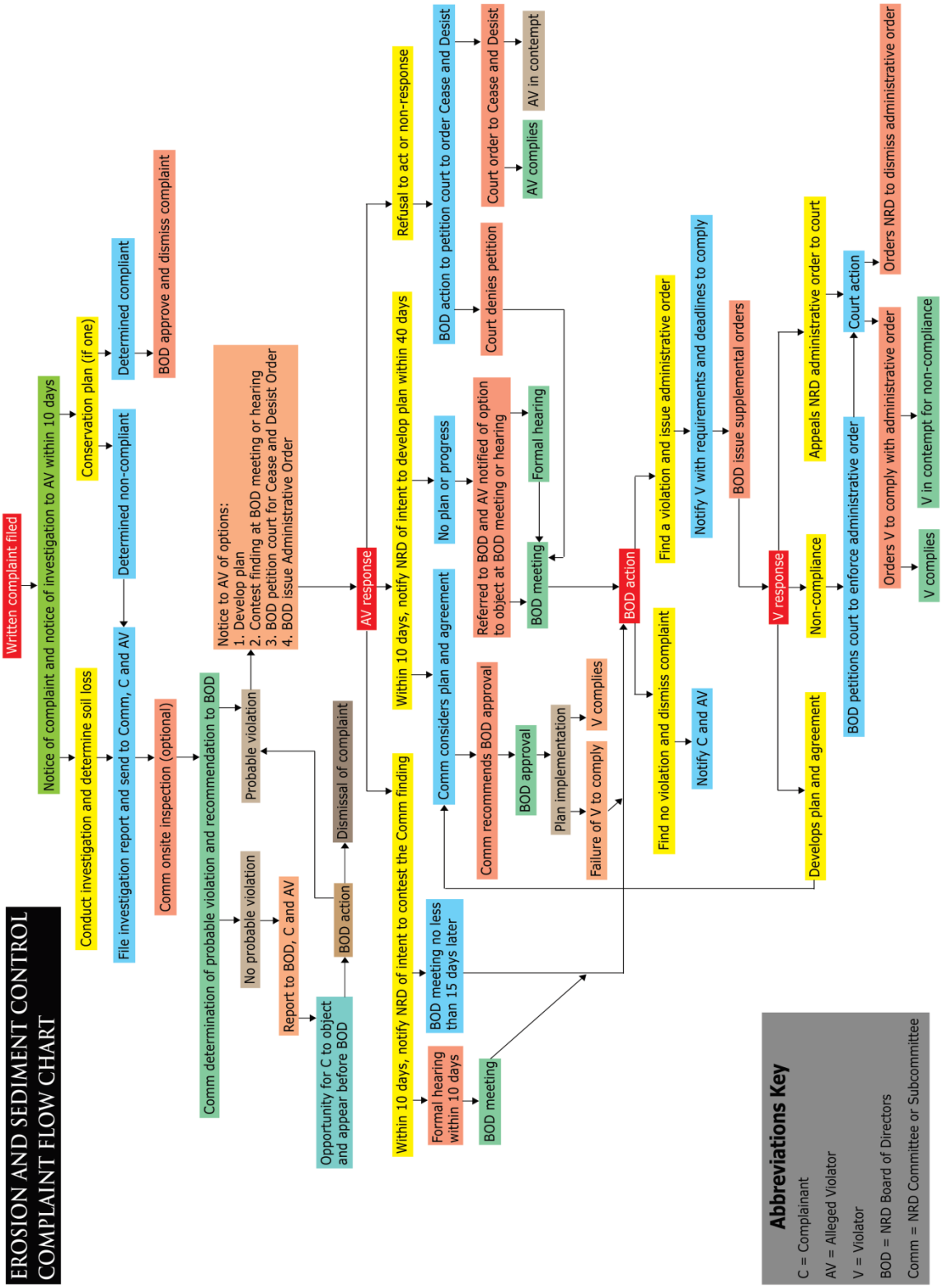
Pre-inspection
____ Review rules & regulations/statutes for timetables - procedures
____ Verify ownership/lienholder of land where problem is originating
____ Contact NRCS re: conservation plan or erosion and sediment control plan status, average annual soil loss, etc.
____ Certified letter to alleged violator sent within 10-day period.
a. Include notification of alleged violation
b. Copy of applicable statutes pertaining to the Sediment and Erosion Control Program
c. Invitation to be present for the investigation
____ Letter to complainant, alleged violator, NRCS and other agencies regarding inspection date, time and other pertinent information.

Inspection
____ Pertinent inspection equipment as necessary
____ Location of alleged violation: verified legal description and acres involved
____ Sources - land use, soil loss, soil types and other pertinent information
____ Damages - measurements of extent of damage, photograph, copies of costs, invoices of damaged property and other pertinent documentation
____ Prepare documentation report with the Committee designated by the Board

Follow-up
____ Notify all parties of NRD board recommendation.
a. Recommendation of dismissal. (Complainant may appeal)
b. Recommendation of Action
____ Certified letter informing violator of probable violation and recommended Action.
a. Violator has 10 days after receipt of letter to respond re: conservation plan
b. District cost-share assistance is not required but may be available
____ Prepared conservation agreement with schedule of compliance
____ If violator disagrees with probable violation opportunity is given to contest finding at a board meeting, board hearing or other formal public hearing.
____ If violator refuses conservation plan or erosion and sediment control plan the NRD board issues administrative order.
a. May be stricter than conservation agreement
b. Violator has 30 days to appeal

____ If violator continues to refuse to cooperate a court order is issued.

APPENDIX 19



APPENDIX 20 – NRCS SOIL LOSS TOLARANCES

oldmusym	oldmuname	musym	muname
Aa	Albaton silty clay, 0 to 2 percent slopes	7710	Albaton silty clay, occasionally flooded
Ab	Albaton silty clay, 0 to 2 percent slopes	7710	Albaton silty clay, occasionally flooded
AcC	Alcester silt loam, 2 to 6 percent slopes	6600	Alcester silt loam, 2 to 6 percent slopes
AcD	Alcester silt loam, 6 to 11 percent slopes	6601	Alcester silt loam, 6 to 11 percent slopes
AED	Arents, earthen dam	9971	Arents, earthen dam
AmB	Anselmo loamy fine sand, 0 to 3 percent slopes	9012	Anselmo loamy fine sand, 0 to 3 percent slopes
An	Albaton silty clay, ponded, frequently flooded	7711	Albaton silty clay, frequently flooded
An	Anselmo fine sandy loam, 0 to 2 percent slopes	9001	Anselmo fine sandy loam, 0 to 1 percent slopes
AnC	Anselmo fine sandy loam, 2 to 6 percent slopes	9004	Anselmo fine sandy loam, 3 to 6 percent slopes
AnD	Anselmo fine sandy loam, 6 to 11 percent slopes	9006	Anselmo fine sandy loam, 6 to 11 percent slopes
AnF	Anselmo fine sandy loam, 11 to 20 percent slopes	9003	Anselmo fine sandy loam, 11 to 20 percent slopes
Ao	Aowa silt loam, 0 to 2 percent slopes	6300	Aowa silt loam, occasionally flooded
Ao1	Aowa silt loam, somewhat poorly drained, 0 to 2 percent slopes, occasionally flooded	6300	Aowa silt loam, occasionally flooded
Ao2	Aowa silt loam, poorly drained, 0 to 2 percent slopes, occasionally flooded	6300	Aowa silt loam, occasionally flooded
Ao2f	Aowa silt loam, poorly drained, 0 to 2 percent slopes, frequently flooded	6300	Aowa silt loam, occasionally flooded
Ar	Aowa silt loam, channeled, 0 to 2 percent slopes	6301	Aowa silt loam, channeled, frequently flooded
Ar2	Aowa silt loam, poorly drained, channeled, 0 to 2 percent slopes, frequently flooded	6301	Aowa silt loam, channeled, frequently flooded
ArF	Anselmo-Rock outcrop complex, 11 to 20 percent slopes	9021	Anselmo-Rock outcrop complex, 11 to 17 percent slopes
As	Aowa silt loam, channeled, frequently flooded	6301	Aowa silt loam, channeled, frequently flooded
At	Albaton silty clay, occasionally flooded	7710	Albaton silty clay, occasionally flooded
At	Anselmo loam, 0 to 2 percent slopes	9010	Anselmo loam, 0 to 1 percent slopes
Aw	Aowa silt loam, occasionally flooded	6300	Aowa silt loam, occasionally flooded
Ax	Anselmo-O'Neill sandy loams, 0 to 2 percent slopes	8807	Anselmo-O'Neill sandy loams, 0 to 3 percent slopes
AxC	Anselmo-O'Neill sandy loams, 2 to 6 percent slopes	9020	Anselmo-O'Neill sandy loams, 3 to 6 percent slopes
Ba	Barney fine sandy loam, 0 to 2 percent slopes	6311	Barney fine sandy loam, frequently flooded
Ba	Barney loam, 0 to 2 percent slopes	6312	Barney loam, frequently flooded
Ba	Barney silt loam, channeled	6314	Barney silt loam, channeled, frequently flooded
Ba	Barney-Boel complex, channeled	6319	Barney-Boel complex, channeled
Bb	Barney loam, frequently flooded	6312	Barney loam, frequently flooded
Bb	Barney-Bolent complex, channeled	6321	Barney-Bolent complex, channeled, occasionally flooded
Bb	Bazile silt loam, 0 to 2 percent slopes	6613	Bazile silt loam, 0 to 2 percent slopes
BbC	Bazile silt loam, 2 to 6 percent slopes	6615	Bazile silt loam, 2 to 6 percent slopes
Bc	Blackloup loam, 0 to 1 percent slopes	4215	Blackloup loam, rarely flooded
Bd	Blackloup loam, wet, 0 to 1 percent slopes	4216	Blackloup loam, occasionally flooded
Bd	Bazile loamy fine sand, 0 to 2 percent slopes	6608	Bazile loamy fine sand, 0 to 2 percent slopes

Bd	Blake silty clay loam, 0 to 2 percent slopes	7722	Blake silty clay loam, occasionally flooded
BdC	Bazile loamy fine sand, 2 to 6 percent slopes	6609	Bazile loamy fine sand, 2 to 6 percent slopes
BdD	Bazile loamy fine sand, 6 to 11 percent slopes	6610	Bazile loamy fine sand, 6 to 11 percent slopes
Be	Blendon fine sandy loam, 0 to 2 percent slopes	6508	Blendon fine sandy loam, 0 to 2 percent slopes
Be	Boel loamy fine sand, occasionally flooded	8420	Boel loamy fine sand, occasionally flooded
BeC	Blendon fine sandy loam, 2 to 6 percent slopes	6510	Blendon fine sandy loam, 2 to 6 percent slopes
Bg	Blown-out land-Valentine complex, 6 to 60 percent slopes	4450	Blown-out land-Valentine complex, 0 to 60 percent slopes
Bg	Blyburg silt loam, rarely flooded	7765	Blyburg silt loam, rarely flooded
Bm	Boel loamy fine sand, 0 to 2 percent slopes	8420	Boel loamy fine sand, occasionally flooded
Bn	Boel fine sandy loam, 0 to 2 percent slopes	2100	Boel fine sandy loam, occasionally flooded
Bn	Bazile loam, 0 to 2 percent slopes	6500	Bazile loam, 0 to 2 percent slopes
BnC	Bazile loam, 2 to 6 percent slopes	6605	Bazile loam, 2 to 6 percent slopes
BnD	Bazile loam, 6 to 11 percent slopes	6606	Bazile loam, 6 to 11 percent slopes
Bo	Boel silty clay loam, overwash, 0 to 2 percent slopes	8422	Boel silty clay loam, overwash, occasionally flooded
BoD	Boyd silty clay, 6 to 11 percent slopes	3152	Boyd silty clay, 6 to 11 percent slopes
BoD2	Betts clay loam, 6 to 11 percent slopes, eroded	5478	Betts clay loam, 6 to 11 percent slopes, eroded
BoE2	Betts clay loam, 11 to 15 percent slopes, eroded	5475	Betts clay loam, 11 to 15 percent slopes, eroded
BoF	Betts clay loam, 15 to 30 percent slopes	5476	Betts clay loam, 15 to 30 percent slopes
BoG	Betts clay loam, 30 to 60 percent slopes	5477	Betts clay loam, 30 to 60 percent slopes
Bp	Blendon fine sandy loam, 0 to 2 percent slopes	6508	Blendon fine sandy loam, 0 to 2 percent slopes
Bp	Boel-Inavale complex, channeled	8425	Boel-Inavale complex, channeled, frequently flooded
BpB	Boelus loamy sand, 0 to 3 percent slopes	6640	Boelus loamy sand, 0 to 3 percent slopes
Br	Blyburg silt loam, 0 to 2 percent slopes	7765	Blyburg silt loam, rarely flooded
Br1	Blyburg silt loam, somewhat poorly drained, 0 to 2 percent slopes, rarely flooded	7765	Blyburg silt loam, rarely flooded
Br2	Blyburg silt loam, poorly drained, 0 to 2 percent slope, occasionally flooded	7765	Blyburg silt loam, rarely flooded
BrD	Brunswick-Tassel loamy sands, 3 to 11 percent slopes	6664	Brunswick-Longpine loamy sands, 3 to 11 percent slopes
BrG	Bristow silty clay, 20 to 40 percent slopes	3150	Bristow silty clay, 20 to 40 percent slopes
Bs	Brocksburg fine sandy loam, 0 to 2 percent slopes	3155	Brocksburg fine sandy loam, 0 to 2 percent slopes
Bs	Boel loamy fine sand, 0 to 2 percent slopes	8420	Boel loamy fine sand, occasionally flooded
Bs2	Boel loamy fine sand, poorly drained, 0 to 2 percent slopes, occasionally flooded	8420	Boel loamy fine sand, occasionally flooded
BsB	Boelus loamy sand, 0 to 3 percent slopes	6640	Boelus loamy sand, 0 to 3 percent slopes
BsC	Boelus loamy sand, 3 to 6 percent slopes	6641	Boelus loamy sand, 3 to 6 percent slopes
BsD	Boelus loamy sand, 6 to 11 percent slopes	6642	Boelus loamy sand, 6 to 11 percent slopes
Bt	Brocksburg loam, 0 to 2 percent slopes	3156	Brocksburg loam, 0 to 2 percent slopes
Bt	Brocksburg loam, 0 to 1 percent slopes	3156	Brocksburg loam, 0 to 2 percent slopes
Bt	Boelus loamy sand, 0 to 2 percent slopes	6640	Boelus loamy sand, 0 to 3 percent slopes
BtB	Boelus loamy sand, gravelly substratum, 0 to 3 percent slopes	6643	Boelus loamy sand, gravelly substratum, 0 to 3 percent slopes
BtC	Boelus loamy sand, 2 to 6 percent slopes	6641	Boelus loamy sand, 3 to 6 percent slopes
BtD	Boelus loamy sand, 6 to 11 percent slopes	6642	Boelus loamy sand, 6 to 11 percent slopes
BtF	Brunswick-Tassel fine sandy loams, 11 to 40 percent slopes	6662	Brunswick-Longpine fine sandy loams, 11 to 40 percent slopes

BuD	Boelus-Meadin complex, 6 to 11 percent slopes	6648	Boelus-Meadin complex, 6 to 11 percent slopes
BvG	Bristow silty clay, 30 to 60 percent slopes	3151	Bristow silty clay, 30 to 60 percent slopes
BwD	Brunswick fine sandy loam, 6 to 11 percent slopes	6659	Brunswick fine sandy loam, 6 to 11 percent slopes
BwG	Bristow silty clay, 20 to 40 percent slopes	3150	Bristow silty clay, 20 to 40 percent slopes
BxE	Brunswick-Paka complex, 6 to 15 percent slopes	6661	Brunswick-Paka complex, 6 to 17 percent slopes
BxF	Brunswick-Paka complex, 15 to 30 percent slopes	6663	Brunswick-Paka complex, 17 to 30 percent slopes
BxF	Brunswick-Pivot complex, 9 to 30 percent slopes	6665	Brunswick-Pivot complex, 11 to 30 percent slopes
By	Butler silt loam, 0 to 2 percent slopes	3820	Butler silt loam, 0 to 1 percent slopes
ByF	Brunswick-Tassel fine sandy loams, 11 to 40 percent slopes	6662	Brunswick-Longpine fine sandy loams, 11 to 40 percent slopes
Cb	Cass fine sandy loam, 0 to 2 percent slopes	3521	Cass fine sandy loam, occasionally flooded
Cb	Cass loam, 0 to 2 percent slopes	8435	Cass loam, rarely flooded
CcB	Cass loam, channeled, 0 to 3 percent slopes	8437	Cass loam, channeled, frequently flooded
Ce	Cass fine sandy loam, 0 to 2 percent slopes	3710	Cass fine sandy loam, rarely flooded
Co	Coleridge silt loam, 0 to 2 percent slopes	6323	Coleridge silt loam, occasionally flooded
Cp	Coleridge silt loam, occasionally flooded	6323	Coleridge silt loam, occasionally flooded
CrC2	Crofton silt loam, 2 to 6 percent slopes, eroded	6685	Crofton silt loam, 2 to 6 percent slopes, eroded
CrD2	Crofton silt loam, 6 to 11 percent slopes, eroded	6687	Crofton silt loam, 6 to 11 percent slopes, eroded
CrE2	Crofton silt loam, 11 to 15 percent slopes, eroded	6673	Crofton silt loam, 11 to 17 percent slopes, eroded
CrE2	Crofton silt loam, 11 to 15 percent slopes, eroded	6673	Crofton silt loam, 11 to 17 percent slopes, eroded
CrF	Crofton silt loam, 15 to 30 percent slopes	6680	Crofton silt loam, 17 to 30 percent slopes
CrG	Crofton silt loam, 30 to 60 percent slopes	6686	Crofton silt loam, 30 to 60 percent slopes
CsC2	Crofton-Nora complex, 2 to 6 percent slopes, eroded	6693	Crofton-Nora complex, 2 to 6 percent slopes, eroded
CsD2	Crofton-Nora complex, 6 to 11 percent slopes, eroded	6694	Crofton-Nora complex, 6 to 11 percent slopes, eroded
CsE2	Crofton-Nora complex, 11 to 15 percent slopes, eroded	6789	Crofton-Nora complex, 11 to 17 percent slopes, eroded
CtD2	Crofton-Thurman complex, 6 to 11 percent slopes, eroded	6672	Crofton-Thurman complex, 6 to 11 percent slopes, eroded
CtE2	Crofton-Thurman complex, 11 to 15 percent slopes, eroded	6670	Crofton-Thurman complex, 11 to 17 percent slopes, eroded
CtF	Crofton-Thurman complex, 15 to 30 percent slopes	6671	Crofton-Thurman complex, 17 to 30 percent slopes
DdB	Duda loamy fine sand, 0 to 3 percent slopes	4474	Duda loamy fine sand, 0 to 3 percent slopes
DdC	Duda loamy fine sand, 3 to 6 percent slopes	4475	Duda loamy fine sand, 3 to 6 percent slopes
DuB	Dunday loamy fine sand, 0 to 3 percent slopes	4485	Dunday loamy fine sand, 0 to 3 percent slopes
DuB	Dunday loamy sand, 0 to 3 percent slopes	4498	Dunday loamy sand, 0 to 3 percent slopes
DuC	Dunday loamy fine sand, 3 to 6 percent slopes	4488	Dunday loamy fine sand, 3 to 6 percent slopes
DuC	Dunday loamy sand, 3 to 6 percent slopes	4499	Dunday loamy sand, 3 to 6 percent slopes
DuD	Dunday loamy fine sand, 6 to 11 percent slopes	4493	Dunday loamy fine sand, 6 to 11 percent slopes

DxB	Dunday loamy fine sand, loamy substratum, 0 to 3 percent slopes	4496	Dunday loamy fine sand, loamy substratum, 0 to 3 percent slopes
DxB	Dunday-Duda loamy fine sands, 0 to 3 percent slopes	4502	Dunday-Duda loamy fine sands, 0 to 3 percent slopes
DxB	Dunn loamy sand, 0 to 3 percent slopes	4512	Dunn loamy sand, 0 to 3 percent slopes
Eb	Els loamy sand, 0 to 2 percent slopes	4533	Els loamy sand, 0 to 3 percent slopes
Ef	Elsmere loamy fine sand, 0 to 2 percent slopes	4553	Elsmere loamy fine sand, 0 to 3 percent slopes
EfB	Els-Ipage complex, 0 to 3 percent slopes	4542	Els-Ipage complex, 0 to 3 percent slopes
Eh	Elsmere fine sandy loam, 0 to 2 percent slopes	4352	Elsmere fine sandy loam, rarely flooded
Em	Elsmere fine sandy loam, rarely flooded	4352	Elsmere fine sandy loam, rarely flooded
Em	Elsmere loamy fine sand, 0 to 2 percent slopes	4553	Elsmere loamy fine sand, 0 to 3 percent slopes
En	Elsmere loamy fine sand, clayey substratum, 0 to 2 percent slopes	4557	Elsmere loamy fine sand, clayey substratum, 0 to 3 percent slopes
Eo	Els fine sand, 0 to 2 percent slopes	4521	Els fine sand, 0 to 3 percent slopes
Ep	Elsmere fine sandy loam, 0 to 2 percent slopes	4352	Elsmere fine sandy loam, rarely flooded
Es	Elsmere loamy fine sand, 0 to 2 percent slopes	4553	Elsmere loamy fine sand, 0 to 3 percent slopes
EsB	Elsmere-Ipage loamy fine sands, 0 to 3 percent slopes	4560	Elsmere-Ipage loamy fine sands, 0 to 3 percent slopes
Et	Eltree silt loam, 0 to 2 percent slopes	2561	Eltree silt loam, 0 to 3 percent slopes
Et	Eltree silt loam, 0 to 2 percent slopes	2561	Eltree silt loam, 0 to 3 percent slopes
EtC	Eltree silt loam, 2 to 6 percent slopes	2563	Eltree silt loam, 3 to 6 percent slopes
Eu	Elsmere-Selia loamy fine sands, 0 to 2 percent slopes	4562	Elsmere-Selia loamy fine sands, 0 to 3 percent slopes
Fm	Fillmore silt loam, 0 to 2 percent slopes	3951	Fillmore silt loam, occasionally ponded
Fm	Fillmore silt loam, 0 to 1 percent slopes	3952	Fillmore silt loam, frequently ponded
Ft	Fluvaquents, frequently flooded	9900	Fluvaquents, frequently flooded
Ft	Fluvaquents, sandy-Fluvaquents, loamy complex, 0 to 1 percent slopes	9905	Fluvaquents, sandy-Fluvaquents, loamy complex, frequently flooded
Ft	Fluvaquents, sandy-Fluvaquents, loamy complex, 0 to 1 percent slopes	9905	Fluvaquents, sandy-Fluvaquents, loamy complex, frequently flooded
Fu	Fluvaquents, silty, 0 to 2 percent slopes	9900	Fluvaquents, frequently flooded
Fu	Fluvaquents	9905	Fluvaquents, sandy-Fluvaquents, loamy complex, frequently flooded
GaG	Gavins silt loam, 30 to 60 percent slopes	6761	Gavins silt loam, 30 to 60 percent slopes
Gb	Gannett loam, 0 to 2 percent slopes	4576	Gannett loam, 0 to 1 percent slopes
Gb	Gibbon silt loam, occasionally flooded	8470	Gibbon silt loam, occasionally flooded
Gf	Gannett loam, wet, 0 to 2 percent slopes	4579	Gannett loam, frequently ponded
Gf	Gibbon silt loam, 0 to 2 percent slopes	8470	Gibbon silt loam, occasionally flooded
Gf2	Gibbon silt loam, poorly drained, 0 to 2 percent slopes, occasionally flooded	8470	Gibbon silt loam, occasionally flooded
Gf2f	Gibbon silt loam, poorly drained, 0 to 2 percent slopes, frequently flooded	8470	Gibbon silt loam, occasionally flooded
Gf3	Gibbon silt loam, very poorly drained, 0 to 2 percent slopes, occasionally flooded	8470	Gibbon silt loam, occasionally flooded
Go	Grigston silt loam, 0 to 2 percent slopes	1039	Grigston silt loam, occasionally flooded
GP	Gravel pit	9983	Gravel pit
GrB	Grigston silt loam, channeled, 0 to 3 percent slopes	6301	Aowa silt loam, channeled, frequently flooded
Ha	Hall silt loam, 0 to 2 percent slopes	8840	Hall silt loam, 0 to 1 percent slopes
Hd	Hobbs silt loam, 0 to 2 percent slopes	3561	Hobbs silt loam, occasionally flooded
He	Haynie silt loam, 0 to 2 percent slopes	7741	Haynie silt loam, occasionally flooded

Ho	Holt fine sandy loam, 0 to 2 percent slopes	3170	Holt fine sandy loam, 0 to 2 percent slopes
Ho	Hord silt loam, 0 to 2 percent slopes	8869	Hord silt loam, 0 to 1 percent slopes
HoC	Holt fine sandy loam, 2 to 6 percent slopes	3171	Holt fine sandy loam, 2 to 6 percent slopes
Hr	Hord silt loam, 0 to 2 percent slopes	8869	Hord silt loam, 0 to 1 percent slopes
HtC	Holt-Tassel fine sandy loams, 3 to 6 percent slopes	3172	Holt-Longpine fine sandy loams, 2 to 6 percent slopes
HtD	Holt-Tassel fine sandy loams, 6 to 11 percent slopes	3173	Holt-Longpine fine sandy loams, 6 to 11 percent slopes
Ia	Inavale fine sand, rarely flooded	2330	Inavale fine sand, rarely flooded
Ia	Inavale sand, channeled	2346	Inavale sand, channeled, frequently flooded
Ib	Inavale fine sand, 0 to 2 percent slopes	2330	Inavale fine sand, rarely flooded
Id	Inavale loamy fine sand, 0 to 2 percent slopes	2331	Inavale loamy fine sand, rarely flooded
Ie	Inavale loamy fine sand, rarely flooded	2331	Inavale loamy fine sand, rarely flooded
If	Inavale fine sand, 0 to 2 percent slopes	2330	Inavale fine sand, rarely flooded
If1	Inavale fine sand, somewhat poorly drained, 0 to 2 percent slopes, rarely flooded	2330	Inavale fine sand, rarely flooded
IfB	Ipage sand, 0 to 3 percent slopes	4653	Ipage sand, 0 to 3 percent slopes
IfD	Inavale fine sand, 3 to 11 percent slopes	2325	Inavale fine sand, 3 to 11 percent slopes
Ig	Inavale fine sand, channeled, 0 to 2 percent slopes	2322	Inavale fine sand, channeled, frequently flooded
Ig2	Inavale fine sand, poorly drained, channeled, 0 to 2 percent slopes, frequently flooded	2322	Inavale fine sand, channeled, frequently flooded
IgB	Inavale fine sand, channeled, 0 to 3 percent slopes	2322	Inavale fine sand, channeled, frequently flooded
IgB	Ipage loamy sand, 0 to 3 percent slopes	4650	Ipage loamy sand, 0 to 3 percent slopes
Ih	Inavale loamy fine sand, 0 to 2 percent slopes	2331	Inavale loamy fine sand, rarely flooded
Ih1	Inavale loamy fine sand, somewhat poorly drained, 0 to 2 percent slopes, rarely flooded	2331	Inavale loamy fine sand, rarely flooded
IhB	Inavale loamy fine sand, 0 to 3 percent slopes	2110	Inavale loamy fine sand, occasionally flooded
Im	Inavale fine sandy loam, 0 to 2 percent slopes	2327	Inavale fine sandy loam, rarely flooded
Im1	Inavale fine sandy loam, somewhat poorly drained, 0 to 2 percent slopes, rarely flooded	2327	Inavale fine sandy loam, rarely flooded
Im2	Inavale fine sandy loam, poorly drained, 0 to 2 percent slopes, rarely flooded	2327	Inavale fine sandy loam, rarely flooded
Im2f	Inavale fine sandy loam, poorly drained, 0 to 2 percent slopes, frequently flooded	2327	Inavale fine sandy loam, rarely flooded
In	Inavale fine sandy loam, rarely flooded	2327	Inavale fine sandy loam, rarely flooded
In	Inavale fine sandy loam, 0 to 2 percent slopes	2328	Inavale fine sandy loam, occasionally flooded
INT	Aquolls	9970	Aquolls
IpB	Ipage loamy fine sand, 0 to 3 percent slopes	4646	Ipage loamy fine sand, 0 to 3 percent slopes
ItB	Ipage-Tryon fine sands, 0 to 3 percent slopes	4656	Ipage-Tryon fine sands, 0 to 3 percent slopes
Iv	Inavale fine sand, channeled, frequently flooded	2322	Inavale fine sand, channeled, frequently flooded
Iw	Inglewood loamy fine sand, rarely flooded	6457	Inglewood loamy fine sand, rarely flooded
Ja	Jansen fine sandy loam, 0 to 2 percent slopes	3180	Jansen fine sandy loam, 0 to 2 percent slopes
Jn	Jansen loam, 0 to 2 percent slopes	3183	Jansen loam, 0 to 2 percent slopes
JnC	Jansen loam, 2 to 6 percent slopes	3184	Jansen loam, 2 to 6 percent slopes
JnD	Jansen loam, 6 to 11 percent slopes	3186	Jansen loam, 6 to 11 percent slopes
JoB	Jansen-Meadin loams, 0 to 3 percent slopes	3192	Jansen-Meadin loams, 0 to 2 percent slopes
JsC	Jansen-Meadin loams, 3 to 6 percent slopes	3193	Jansen-Meadin loams, 2 to 6 percent slopes
Jt	Josburg fine sandy loam, 0 to 2 percent slopes	3205	Josburg fine sandy loam, 0 to 2 percent slopes
Jw	Josburg loam, 0 to 2 percent slopes	3206	Josburg loam, 0 to 2 percent slopes

Ke	Kezan silt loam, 0 to 2 percent slopes	3642	Kezan silt loam, occasionally flooded
Kef	Kezan silt loam, poorly drained, 0 to 2 percent slopes, frequently flooded	3642	Kezan silt loam, occasionally flooded
Kn	Kezan silt loam, occasionally flooded	3642	Kezan silt loam, occasionally flooded
KzB	Kezan silt loam, channeled, 0 to 2 percent slopes	3641	Kezan silt loam, channeled, frequently flooded
LaC	Labu silty clay, 2 to 6 percent slopes	3220	Labu silty clay, 2 to 6 percent slopes
LaD	Labu silty clay, 6 to 11 percent slopes	3221	Labu silty clay, 6 to 11 percent slopes
LaD	Labu silty clay, 6 to 11 percent slopes	3221	Labu silty clay, 6 to 11 percent slopes
LaD	Labu silty clay, 6 to 11 percent slopes	3221	Labu silty clay, 6 to 11 percent slopes
LbD	Labu silty clay, 6 to 11 percent slopes	3221	Labu silty clay, 6 to 11 percent slopes
LcF	Labu-Sansarc silty clays, 11 to 30 percent slopes	3225	Labu-Sansarc silty clays, 11 to 30 percent slopes
LcF	Labu-Sansarc complex, 11 to 30 percent slopes	3227	Labu-Sansarc complex, 11 to 30 percent slopes
Ld	Lamo-Lute loams, 0 to 2 percent slopes	3523	Lamo-Lute loams, 0 to 2 percent slopes
LD	Sanitary landfill	9967	Sanitary landfill
Le	Leshara silt loam, 0 to 2 percent slopes	6352	Leshara silt loam, occasionally flooded
Lf	Lawet loam, drained, 0 to 2 percent slopes	6331	Lawet loam, drained, rarely flooded
Lg	Lawet-Lute complex, 0 to 2 percent slopes	6345	Lawet-Lute complex, rarely flooded
Lh	Lex-Lute loams, 0 to 2 percent slopes	8509	Lex-Lute loams, rarely flooded
LhC2	Longford silty clay loam, 2 to 6 percent slopes, eroded	3404	Longford silty clay loam, 3 to 7 percent slopes, eroded
LhD2	Longford silty clay loam, 6 to 11 percent slopes, eroded	4182	Longford silty clay loam, 7 to 11 percent slopes, eroded
Lk	Loretto fine sandy loam, 0 to 2 percent slopes	6533	Loretto fine sandy loam, 0 to 2 percent slopes
LkB	Libory loamy fine sand, 0 to 3 percent slopes	4370	Libory loamy fine sand, 0 to 3 percent slopes
LkC	Loretto fine sandy loam, 2 to 6 percent slopes	6790	Loretto fine sandy loam, 2 to 6 percent slopes
LmB	Libory-Whitelake loamy fine sands, 0 to 3 percent slopes	4374	Libory-Whitelake loamy fine sands, 0 to 3 percent slopes
LnC	Loretto loam, 2 to 6 percent slopes	6792	Loretto loam, 2 to 6 percent slopes
Lo	Loup fine sandy loam, 0 to 2 percent slopes	4662	Loup fine sandy loam, 0 to 1 percent slopes
Lp	Loup fine sandy loam, 0 to 2 percent slopes	4662	Loup fine sandy loam, 0 to 1 percent slopes
Lp	Loup fine sandy loam, wet, 0 to 2 percent slopes	4669	Loup fine sandy loam, frequently ponded
Lr	Loup fine sandy loam, wet, 0 to 2 percent slopes	4669	Loup fine sandy loam, frequently ponded
Ls	Barney-Boel-Calamus complex, channeled	6320	Barney-Boel-Calamus complex, channeled
LsC	Lynch silty clay, 2 to 6 percent slopes	3230	Lynch silty clay, 2 to 6 percent slopes
LsD	Lynch silty clay, 6 to 11 percent slopes	3231	Lynch silty clay, 6 to 11 percent slopes
LxC	Lynch silty clay, 2 to 6 percent slopes	3230	Lynch silty clay, 2 to 6 percent slopes
LxD	Lynch silty clay, 6 to 11 percent slopes	3231	Lynch silty clay, 6 to 11 percent slopes
LyD	Lynch-Bristow silty clays, 6 to 11 percent slopes	3233	Lynch-Bristow silty clays, 6 to 11 percent slopes
LyF	Lynch-Bristow complex, 11 to 30 percent slopes	3232	Lynch-Bristow complex, 11 to 30 percent slopes
LyF	Lynch-Bristow silty clays, 11 to 30 percent slopes	3234	Lynch-Bristow silty clays, 11 to 30 percent slopes
LzD	Lynch-Verdel complex, 6 to 11 percent slopes	3235	Lynch-Verdel complex, 6 to 11 percent slopes
Ma	Marlake fine sandy loam, 0 to 2 percent slopes	4683	Marlake fine sandy loam, frequently ponded
Ma	Marlake loamy fine sand, 0 to 1 percent slopes	4687	Marlake loamy fine sand, frequently ponded
MaB	Manter loamy fine sand, 0 to 3 percent slopes	3178	Holt variant loamy fine sand, 0 to 3 percent slopes
MaC	Manter loamy fine sand, 3 to 6 percent slopes	3179	Holt variant loamy fine sand, 3 to 6 percent slopes

MaG	Mariaville-Paka loams, 15 to 40 percent slopes	3240	Mariaville-Paka loams, 11 to 40 percent slopes
MbF	Mariaville very fine sandy loam, 3 to 30 percent slopes	3238	Mariaville very fine sandy loam, 2 to 30 percent slopes
MeB	Meadin sandy loam, 0 to 3 percent slopes	3252	Meadin sandy loam, 0 to 2 percent slopes
MeB	Meadin sandy loam, 0 to 3 percent slopes	3252	Meadin sandy loam, 0 to 2 percent slopes
MeE	Meadin sandy loam, 3 to 17 percent slopes	3254	Meadin sandy loam, 2 to 20 percent slopes
MeF	Meadin sandy loam, 3 to 30 percent slopes	3255	Meadin sandy loam, 2 to 30 percent slopes
MfB	Meadin loam, 0 to 3 percent slopes	3245	Meadin loam, 0 to 2 percent slopes
MfC	Manter fine sandy loam, 2 to 6 percent slopes	3177	Holt variant fine sandy loam, 3 to 6 percent slopes
MgF	Meadin-O'Neill complex, 3 to 30 percent slopes	3259	Meadin-O'Neill complex, 2 to 30 percent slopes
Mk	Meckling loamy fine sand, occasionally flooded	6357	Meckling loamy fine sand, occasionally flooded
MkG	Mariaville-Keota silt loams, 15 to 60 percent slopes	3239	Mariaville-Keota silt loams, 11 to 60 percent slopes
Mm	Marlake loamy fine sand, 0 to 1 percent slopes	4687	Marlake loamy fine sand, frequently ponded
Mm	Moody loam, 0 to 2 percent slopes	6804	Moody loam, 0 to 2 percent slopes
MmC	Moody loam, 2 to 6 percent slopes	6805	Moody loam, 2 to 6 percent slopes
MnF	Meadin gravelly sandy loam, 3 to 30 percent slopes	3244	Meadin gravelly sandy loam, 2 to 30 percent slopes
Mo	Moody silty clay loam, 0 to 2 percent slopes	6808	Moody silty clay loam, 0 to 2 percent slopes
MoC	Moody silty clay loam, 2 to 6 percent slopes	6811	Moody silty clay loam, 2 to 6 percent slopes
MpB	McKelvie loamy fine sand, 0 to 3 percent slopes	4700	McKelvie loamy fine sand, 0 to 3 percent slopes
Mu	Munjor fine sandy loam, 0 to 2 percent slopes	2360	Munjor fine sandy loam, rarely flooded
M-W	Miscellaneous water, sewage lagoons	9986	Miscellaneous water, sewage lagoon
Nb	Nimbro silt loam, 0 to 2 percent slopes	3105	Nimbro silt loam, 0 to 2 percent slopes
No	Nora silt loam, 0 to 2 percent slopes	6746	Nora silt loam, 0 to 2 percent slopes
NoC	Nora silt loam, 2 to 6 percent slopes	6753	Nora silt loam, 2 to 6 percent slopes
NoC	Nora silty clay loam, 2 to 6 percent slopes	6765	Nora silty clay loam, 2 to 6 percent slopes
NoD	Nora silt loam, 6 to 11 percent slopes	6755	Nora silt loam, 6 to 11 percent slopes
NoD	Nora silty clay loam, 6 to 11 percent slopes	6767	Nora silty clay loam, 6 to 11 percent slopes
NoE	Nora silty clay loam, 11 to 15 percent slopes	6758	Nora silty clay loam, 11 to 17 percent slopes
Nw	Norway loamy fine sand, frequently flooded	6358	Norway loamy fine sand, frequently flooded
Oa	Onawa silty clay, 0 to 2 percent slopes	7880	Onawa silty clay, occasionally flooded
OaB	O'Neill loamy fine sand, 0 to 3 percent slopes	3265	O'Neill loamy fine sand, 0 to 2 percent slopes
Ob	Obert silt loam, wet, 0 to 2 percent slopes	6366	Obert silt loam, occasionally flooded
Obf	Obert silt loam, very poorly drained, 0 to 2 percent slopes, frequently flooded	6366	Obert silt loam, occasionally flooded
Oc	Obert silt loam, occasionally flooded	6366	Obert silt loam, occasionally flooded
Od	Onawa silty clay, 0 to 2 percent slopes	7883	Onawa silty clay, rarely flooded
Od2	Onawa silty clay, poorly drained, 0 to 2 percent slopes, rarely flooded	7883	Onawa silty clay, rarely flooded
OdB	O'Neill loamy sand, 0 to 3 percent slopes	3266	O'Neill loamy sand, 0 to 2 percent slopes
Oe	O'Neill fine sandy loam, 0 to 2 percent slopes	3260	O'Neill fine sandy loam, 0 to 2 percent slopes
Oe	O'Neill sandy loam, 0 to 2 percent slopes	3267	O'Neill sandy loam, 0 to 2 percent slopes
OeC	O'Neill fine sandy loam, 2 to 6 percent slopes	3261	O'Neill fine sandy loam, 2 to 6 percent slopes
OeC	O'Neill sandy loam, 2 to 6 percent slopes	3268	O'Neill sandy loam, 2 to 6 percent slopes
OeD	O'Neill fine sandy loam, 6 to 9 percent slopes	3263	O'Neill fine sandy loam, 6 to 11 percent slopes
Of	O'Neill loam, 0 to 2 percent slopes	3264	O'Neill loam, 0 to 2 percent slopes
Of	Ord fine sandy loam, occasionally flooded	4241	Ord fine sandy loam, occasionally flooded

OfD	O'Neill-Meadin fine sandy loams, 3 to 9 percent slopes	3272	O'Neill-Meadin fine sandy loams, 2 to 11 percent slopes
Og	Ord fine sandy loam, 0 to 2 percent slopes	4241	Ord fine sandy loam, occasionally flooded
Oh	Ord loam, 0 to 2 percent slopes	4244	Ord loam, occasionally flooded
Oh2	Ord loam, poorly drained, 0 to 2 percent slopes, occasionally flooded	4244	Ord loam, occasionally flooded
OhB	O'Neill-Meadin fine sandy loams, 0 to 3 percent slopes	3269	O'Neill-Meadin fine sandy loams, 0 to 2 percent slopes
Ok	Ord loam, occasionally flooded	4244	Ord loam, occasionally flooded
OkD	O'Neill-Valentine complex, 1 to 9 percent slopes	3277	O'Neill-Valentine complex, 2 to 11 percent slopes
OmC	O'Neill-Meadin fine sandy loams, 2 to 6 percent slopes	3271	O'Neill-Meadin fine sandy loams, 2 to 6 percent slopes
OmD	O'Neill-Meadin fine sandy loams, 6 to 11 percent slopes	3273	O'Neill-Meadin fine sandy loams, 6 to 11 percent slopes
OmF	O'Neill-Meadin fine sandy loams, 11 to 30 percent slopes	3270	O'Neill-Meadin fine sandy loams, 11 to 30 percent slopes
On	Onita silt loam, 0 to 2 percent slopes	5220	Onita silt loam, 0 to 1 percent slopes
On	Onita silt loam, 0 to 1 percent slopes	5220	Onita silt loam, 0 to 1 percent slopes
On	Onawa silty clay, rarely flooded	7883	Onawa silty clay, rarely flooded
Op	Ord fine sandy loam, 0 to 2 percent slopes	4240	Ord fine sandy loam, rarely flooded
Or	Ord fine sandy loam, 0 to 2 percent slopes	4241	Ord fine sandy loam, occasionally flooded
Or	Ord loam, 0 to 2 percent slopes	4243	Ord loam, rarely flooded
Or	Ord-Loup fine sandy loams, 0 to 2 percent slopes	4248	Ord-Loup fine sandy loams, 0 to 1 percent slopes
Or	Ortello fine sandy loam, 0 to 2 percent slopes	6578	Ortello fine sandy loam, 0 to 1 percent slopes
OrC	Ortello fine sandy loam, 2 to 6 percent slopes	6845	Ortello fine sandy loam, 3 to 6 percent slopes
Os	Ord-Lute fine sandy loams, 0 to 2 percent slopes	4249	Ord-Lute fine sandy loams, rarely flooded
Ou	Orwet loam, 0 to 2 percent slopes	6369	Orwet loam, rarely flooded
Ow	Orwet loam, rarely flooded	6369	Orwet loam, rarely flooded
PaC	Paka fine sandy loam, 2 to 6 percent slopes	3284	Paka fine sandy loam, 2 to 6 percent slopes
Pf	Paka fine sandy loam, 0 to 2 percent slopes	3283	Paka fine sandy loam, 0 to 2 percent slopes
Pg	Paka fine sandy loam, 0 to 2 percent slopes	3283	Paka fine sandy loam, 0 to 2 percent slopes
PgC	Paka fine sandy loam, 2 to 6 percent slopes	3284	Paka fine sandy loam, 2 to 6 percent slopes
Ph	Paka loam, 0 to 2 percent slopes	3285	Paka loam, 0 to 2 percent slopes
Ph	Paka loam, 0 to 1 percent slopes	3285	Paka loam, 0 to 2 percent slopes
PhB	Paka loam, 1 to 3 percent slopes	3285	Paka loam, 0 to 2 percent slopes
PhC	Paka loam, 2 to 6 percent slopes	3286	Paka loam, 2 to 6 percent slopes
PhD	Paka loam, 6 to 11 percent slopes	3287	Paka loam, 6 to 11 percent slopes, eroded
PhD2	Paka loam, 6 to 11 percent slopes, eroded	3287	Paka loam, 6 to 11 percent slopes, eroded
PhE	Paka loam, 11 to 15 percent slopes	3290	Paka loam, 11 to 20 percent slopes
Pm	Pits, sand and gravel	9983	Gravel pit
PmC	Paka-Mariaville loams, 3 to 6 percent slopes	3291	Paka-Mariaville loams, 2 to 6 percent slopes
PmF	Paka-Mariaville loams, 11 to 30 percent slopes	3292	Paka-Mariaville loams, 11 to 30 percent slopes
PoC	Promise silty clay, 2 to 6 percent slopes	3295	Promise silty clay, 2 to 6 percent slopes
Pt	Percival silty clay, 0 to 2 percent slopes	7804	Percival silty clay, rarely flooded
PtB	Pivot loamy sand, 0 to 3 percent slopes	4721	Pivot loamy sand, 0 to 3 percent slopes
PtC	Pivot loamy sand, 3 to 9 percent slopes	4722	Pivot loamy sand, 3 to 9 percent slopes
Pv	Percival silty clay, rarely flooded	7804	Percival silty clay, rarely flooded
PvD	Pivot-Valentine complex, 0 to 9 percent slopes	4723	Pivot-Valentine complex, 0 to 9 percent slopes
RaB	Ree loam, 1 to 3 percent slopes	3298	Ree loam, 0 to 2 percent slopes

RaC	Ree silt loam, 2 to 6 percent slopes	3301	Ree silt loam, 2 to 6 percent slopes
RaD	Ree silt loam, 6 to 11 percent slopes	3302	Ree silt loam, 6 to 11 percent slopes
RaE	Ree silt loam, 11 to 15 percent slopes	3300	Ree silt loam, 11 to 20 percent slopes
Rb	Ree loam, clayey substratum, 0 to 2 percent slopes	3299	Ree loam, clayey substratum, 0 to 2 percent slopes
RdD	Redstoe silt loam, 6 to 11 percent slopes	6828	Redstoe silt loam, 6 to 11 percent slopes
ReC	Reliance silt loam, 2 to 6 percent slopes	3305	Reliance silt loam, 2 to 6 percent slopes
ReD	Reliance silt loam, 6 to 11 percent slopes	3306	Reliance silt loam, 6 to 11 percent slopes
RfC	Reliance silty clay loam, 2 to 6 percent slopes	3307	Reliance silty clay loam, 2 to 6 percent slopes
RgF	Redstoe-Gavins complex, 11 to 30 percent slopes	6829	Redstoe-Gavins complex, 11 to 30 percent slopes
RoD	Ronson-Anselmo fine sandy loams, 6 to 9 percent slopes	3311	Ronson-Anselmo fine sandy loams, 6 to 11 percent slopes
RoF	Ronson-Anselmo fine sandy loams, 9 to 30 percent slopes	3312	Ronson-Anselmo fine sandy loams, 6 to 30 percent slopes
RtB	Ronson-Tassel fine sandy loams, 0 to 3 percent slopes	3313	Ronson-Longpine fine sandy loams, 0 to 2 percent slopes
Rw	Riverwash	9810	Riverwash
SaG	Sansarc silty clay, 20 to 40 percent slopes	3320	Sansarc silty clay, 20 to 40 percent slopes
SaG	Sansarc silty clay, 30 to 60 percent slopes	3321	Sansarc silty clay, 30 to 60 percent slopes
Sc	Scott silt loam, 0 to 1 percent slopes	3910	Scott silt loam, frequently ponded
ScF	Schamber gravelly sandy loam, 11 to 30 percent slopes	5252	Schamber gravelly sandy loam, 9 to 30 percent slopes
SdD	Sardak loamy fine sand, 2 to 9 percent slopes	6550	Sardak loamy fine sand, 2 to 11 percent slopes, very rare flooding
Se	Shell silt loam, occasionally flooded	6385	Shell silt loam, occasionally flooded
Sh	Shell silt loam, 0 to 2 percent slopes	6385	Shell silt loam, occasionally flooded
Sh1	Shell silt loam, somewhat poorly drained, 0 to 2 percent slopes, occasionally flooded	6385	Shell silt loam, occasionally flooded
SkB	Simeon loamy sand, 0 to 3 percent slopes	8925	Simeon loamy sand, 0 to 3 percent slopes
SkB	Simeon sand, 0 to 3 percent slopes	8929	Simeon sand, 0 to 3 percent slopes
Sm	Simeon loamy sand, 0 to 2 percent slopes	8925	Simeon loamy sand, 0 to 3 percent slopes
SmB	Simeon loamy sand, 0 to 3 percent slopes	8925	Simeon loamy sand, 0 to 3 percent slopes
SmD	Simeon-Meadin complex, 0 to 9 percent slopes	8936	Simeon-Meadin complex, 0 to 9 percent slopes
SmF	Simeon-Manter-Ronson complex, 6 to 17 percent slopes	8935	Simeon-Holt variant-Ronson complex, 6 to 17 percent slopes
So	Solomon silty clay, rarely flooded	3926	Solomon silty clay, rarely flooded
SsF2	Simeon sand, 6 to 30 percent slopes, eroded	8931	Simeon sand, 6 to 30 percent slopes, eroded
StC	Simeon loamy sand, 0 to 6 percent slopes	8926	Simeon loamy sand, 0 to 6 percent slopes
SuC	Simeon sandy loam, 0 to 6 percent slopes	8933	Simeon sandy loam, 0 to 6 percent slopes
SuC	Simeon-Valentine loamy sands, 0 to 6 percent slopes	8946	Simeon-Valentine loamy sands, 0 to 6 percent slopes
SvF	Simeon-Thurman complex, 6 to 30 percent slopes	8938	Simeon-Thurman complex, 6 to 30 percent slopes
SvF2	Simeon-Valentine complex, 3 to 30 percent slopes, eroded	8940	Simeon-Valentine complex, 3 to 30 percent slopes, eroded
SvF2	Simeon-Valentine fine sands, 6 to 17 percent slopes, eroded	8943	Simeon-Valentine fine sands, 6 to 17 percent slopes, eroded
SvG2	Simeon-Valentine sands, 9 to 60 percent slopes, eroded	8947	Simeon-Valentine sands, 11 to 60 percent slopes, eroded

Sw	Solomon silty clay, 0 to 2 percent slopes	3617	Solomon silty clay, occasionally flooded
SwB	Simeon-Valentine loamy sands, 0 to 3 percent slopes	8945	Simeon-Valentine loamy sands, 0 to 3 percent slopes
TaF	Tassel loamy fine sand, 3 to 30 percent slopes	3213	Longpine loamy fine sand, 3 to 30 percent slopes
TdE	Tassel-Duda complex, 3 to 15 percent slopes	3214	Longpine-Duda complex, 3 to 15 percent slopes
TdG	Tassel-Valentine-Duda complex, 15 to 70 percent slopes	4706	McKelvie-Longpine-Ronson complex, 17 to 70 percent slopes
Te	Trent silt loam, 0 to 2 percent slopes	6575	Trent silt loam, 0 to 2 percent slopes
TfB	Thurman fine sand, 0 to 3 percent slopes	6723	Thurman fine sand, 0 to 2 percent slopes
TfC	Thurman fine sand, 3 to 6 percent slopes	6724	Thurman fine sand, 2 to 6 percent slopes
ThB	Thurman loamy fine sand, 0 to 3 percent slopes	6700	Thurman loamy fine sand, 0 to 2 percent slopes
ThC	Thurman loamy fine sand, 3 to 6 percent slopes	6703	Thurman loamy fine sand, 2 to 6 percent slopes
Tn	Tryon loamy fine sand, 0 to 2 percent slopes	4746	Tryon loamy fine sand, 0 to 3 percent slopes
To	Tryon loamy fine sand, 0 to 2 percent slopes	4746	Tryon loamy fine sand, 0 to 3 percent slopes
To	Tryon loamy fine sand, wet, 0 to 2 percent slopes	4751	Tryon loamy fine sand, frequently ponded
ToB	Thurman fine sandy loam, 0 to 3 percent slopes	6561	Thurman fine sandy loam, 0 to 2 percent slopes
ToD	Thurman fine sandy loam, 3 to 11 percent slopes	6727	Thurman fine sandy loam, 2 to 11 percent slopes
ToF	Thurman fine sandy loam, 11 to 30 percent slopes	6726	Thurman fine sandy loam, 11 to 30 percent slopes
Tp	Tryon loamy fine sand, wet, 0 to 2 percent slopes	4751	Tryon loamy fine sand, frequently ponded
TpB	Tryon-Els loamy sands, 0 to 3 percent slopes	4756	Tryon-Els loamy sands, 0 to 3 percent slopes
Tr	Trent silt loam, 0 to 2 percent slopes	6575	Trent silt loam, 0 to 2 percent slopes
TrG	Tassel-Ronson-Duda complex, 15 to 70 percent slopes	3215	Longpine-Ronson-Duda complex, 15 to 70 percent slopes
Ts	Almeria-Calamus complex, channeled	4210	Almeria-Calamus complex, channeled, frequently flooded
Tu	Tuthill fine sandy loam, 0 to 2 percent slopes	3167	Hennings fine sandy loam, 0 to 3 percent slopes
Tx	Trent silt loam, moderately wet, 0 to 2 percent slopes	6576	Trent silt loam, moderately wet, 0 to 2 percent slopes
UbF	Urban land, 3 to 30 percent slopes	9707	Urban land, 3 to 30 percent slopes
VaB	Valentine fine sand, 0 to 3 percent slopes	4781	Valentine fine sand, 0 to 3 percent slopes
VaD	Valentine fine sand, 3 to 9 percent slopes	4791	Valentine fine sand, 3 to 9 percent slopes
VaE	Valentine fine sand, 6 to 17 percent slopes	4794	Valentine fine sand, 9 to 17 percent slopes
VaE	Valentine fine sand, 9 to 24 percent slopes	4796	Valentine fine sand, 9 to 24 percent slopes
VaE	Valentine fine sand, rolling	4807	Valentine fine sand, rolling
VaF	Valentine fine sand, rolling	4807	Valentine fine sand, rolling
VaG	Valentine fine sand, hilly	4800	Valentine fine sand, hilly
VaG	Valentine fine sand, Rolling, and Hilly	4810	Valentine fine sand, rolling and hilly
VaG	Valentine fine sand, rolling and hilly	4810	Valentine fine sand, rolling and hilly
VbB	Valentine loamy fine sand, 0 to 3 percent slopes	4814	Valentine loamy fine sand, 0 to 3 percent slopes
VbB	Valentine loamy sand, 0 to 3 percent slopes	4838	Valentine loamy sand, 0 to 3 percent slopes
VbD	Valentine loamy fine sand, 3 to 9 percent slopes	4818	Valentine loamy fine sand, 3 to 9 percent slopes

VbD	Valentine loamy fine sand, gently rolling	4827	Valentine loamy fine sand, gently rolling
VcF	Valentine-Tassel complex, rolling	4884	Valentine-Longpine complex, rolling
VdC	Valentine-Wewela loamy fine sands, 3 to 6 percent slopes	4892	Valentine-Wewela loamy fine sands, 3 to 6 percent slopes
VdD	Valentine-Boelus fine sands, 0 to 9 percent slopes	4852	Valentine-Boelus fine sands, 0 to 9 percent slopes
VdF	Valentine-Wewela loamy fine sands, 6 to 30 percent slopes	4893	Valentine-Wewela loamy fine sands, 6 to 30 percent slopes
Ve	Verdel silty clay loam, 0 to 1 percent slopes	3325	Verdel silty clay loam, 0 to 2 percent slopes
Ve	Verdel silty clay, 0 to 2 percent slopes	3327	Verdel silty clay, 0 to 2 percent slopes
Ve1	Verdel silty clay, somewhat poorly drained, 0 to 2 percent slopes	3327	Verdel silty clay, 0 to 2 percent slopes
Ve2	Verdel silty clay, poorly drained, 0 to 2 percent slopes	3327	Verdel silty clay, 0 to 2 percent slopes
VeB	Verdel silty clay loam, 1 to 3 percent slopes	3325	Verdel silty clay loam, 0 to 2 percent slopes
VeB	Valentine-Dunday loamy fine sands, 0 to 3 percent slopes	4871	Valentine-Dunday loamy fine sands, 0 to 3 percent slopes
VeC	Verdel silty clay loam, 3 to 6 percent slopes	3326	Verdel silty clay loam, 2 to 6 percent slopes
VeC	Verdel silty clay, 2 to 6 percent slopes	3328	Verdel silty clay, 2 to 6 percent slopes
VeD	Verdel silty clay, 6 to 11 percent slopes	3329	Verdel silty clay, 6 to 11 percent slopes
VeD	Valentine-Dunday loamy fine sands, 3 to 9 percent slopes	4857	Valentine-Dunday loamy fine sands, 3 to 9 percent slopes
VfC	Verdigre fine sandy loam, 2 to 6 percent slopes	3331	Verdigre fine sandy loam, 2 to 6 percent slopes
VfD	Verdigre fine sandy loam, 6 to 11 percent slopes	3332	Verdigre fine sandy loam, 6 to 11 percent slopes
VfD	Valentine-Els fine sands, 0 to 9 percent slopes	4861	Valentine-Els fine sands, 0 to 9 percent slopes
VfF	Verdigre fine sandy loam, 11 to 30 percent slopes	3330	Verdigre fine sandy loam, 11 to 30 percent slopes
VgC	Verdigre loam, 2 to 6 percent slopes	3335	Verdigre loam, 2 to 6 percent slopes
VgD	Verdigre loam, 6 to 11 percent slopes	3336	Verdigre loam, 6 to 11 percent slopes
VgF	Verdigre loam, 11 to 30 percent slopes	3337	Verdigre loam, 11 to 30 percent slopes
VmD	Valentine-Els complex, 0 to 9 percent slopes	4858	Valentine-Els complex, 0 to 9 percent slopes
Vo	Vetal fine sandy loam, 0 to 2 percent slopes	5281	Vetal fine sandy loam, 0 to 3 percent slopes
VoB	Vetal loam, 1 to 3 percent slopes	5286	Vetal loam, 1 to 3 percent slopes
Vr	Verdel silty clay, 0 to 2 percent slopes	3327	Verdel silty clay, 0 to 2 percent slopes
VsD	Valentine-Simeon sands, 3 to 9 percent slopes	4881	Valentine-Simeon sands, 3 to 9 percent slopes
VsF2	Valentine-Simeon sands, 9 to 30 percent slopes, eroded	4882	Valentine-Simeon sands, 9 to 30 percent slopes, eroded
Vt	Vetal loam, 0 to 1 percent slopes	5285	Vetal loam, 0 to 1 percent slopes
VtB	Vetal loam, 1 to 3 percent slopes	5286	Vetal loam, 1 to 3 percent slopes
VtC	Vetal loam, 3 to 6 percent slopes	5287	Vetal loam, 3 to 6 percent slopes
VtE	Valentine-Tryon fine sands, 0 to 17 percent slopes	4888	Valentine-Tryon fine sands, 0 to 17 percent slopes
VwD	Valentine-Wewela complex, 3 to 9 percent slopes	4891	Valentine-Wewela complex, 3 to 9 percent slopes
Vx	Verdel silty clay loam, 0 to 2 percent slopes	3325	Verdel silty clay loam, 0 to 2 percent slopes
W	Water	9999	Water
WeB	Wewela fine sandy loam, 0 to 3 percent slopes	3340	Wewela fine sandy loam, 0 to 2 percent slopes
WeC	Wewela fine sandy loam, 3 to 6 percent slopes	3341	Wewela fine sandy loam, 2 to 6 percent slopes
Ws	Wewela fine sandy loam, 0 to 2 percent slopes	3340	Wewela fine sandy loam, 0 to 2 percent slopes

WsC	Wewela fine sandy loam, 2 to 6 percent slopes	3341	Wewela fine sandy loam, 2 to 6 percent slopes
Wt	Wewela loam, 0 to 2 percent slopes	3342	Wewela loam, 0 to 2 percent slopes
zw	Water, undifferentiated	9999	Water
zwa	Water > 40 acres	9999	Water