

**Annual Administrative Code Supplement**  
2015 Edition

**DEPARTMENT OF TRANSPORTATION AND DEPARTMENT OF AGRICULTURE**  
**DRAINAGE ASSESSMENTS**

**R 280.1**  
Source: 1979 AC.

**R 280.2**  
Source: 1979 AC.

**R 280.3**  
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**R 280.4**  
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**R 280.5**  
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**R 280.8**  
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**R 280.9**  
Source: 1979 AC.

**DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**DIRECTOR'S OFFICE**  
**GREAT LAKES SHORELANDS**

**R 281.21**  
Source: 1998-2000 AACS.

**R 281.22**  
Source: 1992 AACS.

**R 281.23**  
Source: 1998-2000 AACS.

**R 281.24**  
Source: 1992 AACS.

**R 281.26**  
Source: 1979 AC.

**DEPARTMENT OF NATURAL RESOURCES**  
**NATURAL RIVER ZONING**

**R 281.51**  
Source: 2013 AACS.

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**R 281.52**  
Source: 2013 AACS.

**R 281.53**  
Source: 2013 AACS.

**R 281.54**  
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**R 281.91**  
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**R 281.100**  
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**R 281.101**  
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**R 281.102**  
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**R 281.120**  
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**R 281.121**  
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**R 281.395**

**Source:** 2013 AACS.

**DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**DIRECTOR'S OFFICE**  
**SAND DUNE AREAS**

**R 281.401**

**Source:** 1979 AC.

**R 281.402**

**Source:** 1979 AC.

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**R 281.403**

Source: 1979 AC.

**R 281.404**

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**R 281.408**

Source: 1981 AACS.

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**R 281.411**

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**R 281.412**

Source: 1981 AACS.

**R 281.413**

Source: 1981 AACS.

**DEPARTMENT OF NATURAL RESOURCES**  
**FOREST, MINERAL AND FIRE MANAGEMENT DIVISION**  
**OPEN AND PRESCRIBED BURNING**

**R 281.421**

Source: 2007 AACS.

**R 281.422**

Source: 2007 AACS.

**R 281.423 Open burning permits; procedures for obtaining; conditions.**

Rule 3. (1) A burning permit shall be obtained from a department representative or local unit of government. The permittee shall meet all conditions of the permit at all times. Noncompliance with permit conditions is considered grounds to rescind the permit.

(2) A permit for burning is required whenever the ground is not snow-covered, and may be rescinded by the issuing agency at any time it considers burning conditions are too extreme.

(3) Permits for burning may be issued in writing, over the telephone, or over the internet. Permits for burning debris from vegetative land clearing shall be issued in writing.

History: 2007 AACS; 2015 MR 12, Eff. July 1, 2015

**R 281.424**

Source: 2007 AACS.

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**R 281.425**

Source: 2007 AACS.

**R 281.426**

Source: 2007 AACS.

**R 281.427**

Source: 2007 AACS.

**R 281.428**

Source: 2007 AACS.

**R 281.429**

Source: 2007 AACS.

**DEPARTMENT OF NATURAL RESOURCES**

**LAW ENFORCEMENT DIVISION**

**WATERCRAFT RENTED TO PUBLIC**

**R 281.511 Scope.**

Rule 1. These rules are promulgated for the purpose of implementing 1994 PA 451, MCL 324.44501 to 324.44526, hereinafter referred to as the act.

History: 1979 AC; 2015 MR 17, Eff. Sept. 15, 2015.

**R 281.512**

Source: 1979 AC.

**R 281.513**

Source: 1979 AC.

**R 281.514 Maximum capacity tags; watercraft for use with outboard motors.**

Rule 4. The capacity tag for a watercraft for use with an outboard motor shall contain all of the following:

- (a) The total weight of persons, motor, gear, and other articles placed aboard that the watercraft is capable of carrying with safety under normal conditions.
- (b) The recommended number of persons commensurate with the weight capacity of the watercraft at a presumed weight of 185 pounds per person.
- (c) The maximum horsepower of the motor the watercraft is designed or intended to accommodate.
- (d) A notice that the information appearing on the capacity tag applies under normal conditions and that the weight of the outboard motor and its associated equipment is considered to be part of the weight capacity.

History: 1979 AC; 2015 MR 17, Eff. Sept. 15, 2015.

**R 281.515 Maximum capacity tags; watercraft not for use with outboard motors.**

Rule 5. The capacity tag for a watercraft not for use with an outboard motor, such as a canoe, rowboat, inboard boat, or inboard-outboard boat shall contain all of the following:

- (a) The total weight of persons, gear, and other articles placed aboard that the watercraft is capable of carrying with safety under normal conditions.
- (b) The recommended number of persons commensurate with the weight capacity of the watercraft at a presumed weight of 185 pounds per person.
- (c) A notice that the information appearing on the capacity plate applies under normal conditions.

History: 1979 AC; 2015 MR 17, Eff. Sept. 15, 2015.

**R 281.516**

Source: 1979 AC.

**R 281.517**

Source: 1979 AC.

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**R 281.518**

Source: 1979 AC.

**R 281.519 Passenger capacity.**

Rule 9. Passenger capacity shall be determined by applying either of the following formulas resulting in the lesser capacity:

(a)  $(WC - M) : 185$ , where M is the weight of the largest outboard motor and associated operating equipment that the watercraft is represented to accommodate if usable with outboard motor; and 185 is the presumed pound weight per person. For a watercraft with an inboard or inboard-outboard motor, divide WC by 185.

(b) Boat length multiplied by the maximum boat beam divided by 15. This formula is not applicable to canoes.

History: 1979 AC; 2015 MR 17, Eff. Sept. 15, 2015.

**R 281.520 Navigable waters livery vessels; first aid kit and emergency procedures list.**

Rule 10. (1) The owner of a navigable waters livery vessel shall provide, and have onboard the vessel, at least 1 standard 16-unit first aid kit.

(2) The owner of a navigable waters livery shall post an emergency procedures list aboard the vessel in a conspicuous location. The list shall set forth, at a minimum, all of the following informational items:

(a) Radio-telephone distress, including all of the following:

(i) Switch to channel 16 - coast guard.

(ii) Give distress signal "MAYDAY" 3 times.

(iii) Give boat name, type, and color.

(iv) Give position.

(v) Describe emergency.

(b) Man overboard, including all of the following:

(i) Post a lookout.

(ii) Throw over a flotation device or the water light.

(iii) Do not jump into the water unless the person overboard is a small child, elderly, or a person with a disability.

(iv) Maneuver to return for pickup.

(v) Use additional markers.

(vi) Get victim aboard.

(vii) Call for help if necessary.

(c) Explosion, including all of the following:

(i) Be ready to go overboard with personal flotation device (life jacket).

(ii) When clear of danger, account for all passengers and assist.

(iii) Stay together.

(d) Fires, including all of the following:

(i) If possible, use fire extinguisher.

(ii) If practical, jettison burning materials.

(iii) Reduce the air supply.

(iv) Assemble at opposite end of boat.

(v) Make preparation to abandon ship, including all of the following:

(A) Put on life jacket.

(B) Signal for help by radio or any means available.

(e) Leaks or damage control, including all of the following:

(i) Put on life jacket.

(ii) Check bilge pump operation.

(iii) Pull up all decks and floor boards in search of leaks.

(iv) Slow or stop boat as needed. You may need to stay on plane to keep hole above water.

(v) Stop engine, close sea cock for engine cooling, disconnect hose and place end in bilge. Start engine to act as bilge pump.

(vi) Cover large hole from outside of boat with mattress or similar device.

(vii) Use radio to call for help. Channel 16 - coast guard.

History: 1979 AC; 2015 MR 17, Eff. Sept. 15, 2015.

**R 281.521 Navigable waters livery vessel; marine radio; compass.**

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Rule 11. (1) The owner of a navigable waters livery vessel that is rented or offered for rent on the Great Lakes shall have aboard the vessel a marine radio that is in good working condition.

(2) The owner of a navigable waters livery vessel that is rented or offered for rent on the Great Lakes shall have aboard the vessel a suitable marine-type compass that is in good and serviceable condition.

History: 2015 MR 17, Eff. Sept. 15, 2015.

**R 281.522 Navigable waters livery vessel; bilge pump; bailing devices.**

Rule 12. (1) A navigable waters livery vessel constructed with bilges or enclosed spaces below decks shall be fitted with an electrically operated bilge pump located in a manner that will assure that all bilge areas can be pumped. The bilge pump shall be in good and serviceable condition.

(2) All navigable waters livery vessels shall be equipped with a manually operated bailing device.

History: 2015 MR 17, Eff. Sept. 15, 2015.

**R 281.523 Navigable waters livery vessels; electrical systems.**

Rule 13. (1) All electrical systems on a navigable waters livery vessel shall be safe and fit for the service intended, shall be in proper operating condition, and shall have a suitable electrical grounding system.

(2) Electrical wiring shall be routed as high as possible above the bilges, shall be supported in a suitable manner with nonabrasive fasteners to structural members of the vessel, and shall be protected against chafing where passing through bulkheads or other structural members. Fasteners and protective devices shall not be capable of causing damage to the wiring.

(3) Any electrical storage battery or batteries shall be compatible with its attendant electrical system.

(4) A battery shall be located so that gas generated in charging is dissipated by natural or mechanical ventilation.

(5) A battery shall be accessibly located, provided with suitable supports, and secured against shifting with the motion of the vessel.

(6) A battery shall be located in a liquid-tight tray or box of adequate capacity to retain normal spillage or boilover of the electrolyte. The tray or box shall be constructed of, or lined with, suitable materials resistant to deterioration by the electrolyte.

(7) A nonconductive, perforated cover or other suitable means shall be provided to prevent accidental shorting of the battery terminals.

R 281.524 Navigable waters livery vessels; sailing apparatus.

Rule 14. The owner of a navigable waters livery vessel shall maintain all masts, spars, standing rigging, running rigging, blocks, fittings, sails, lines, and other sailing apparatus in good and serviceable condition.

History: 2015 MR 17, Eff. Sept. 15, 2015.

**R 281.529**

Source: 1979 AC.

**DEPARTMENT OF NATURAL RESOURCES**  
**LAW ENFORCEMENT DIVISION**  
**SPECIAL LOCAL SNOWMOBILE CONTROLS**

**R 281.663.1**

Source: 2013 AACS.

**DEPARTMENT OF NATURAL RESOURCES**  
**LAW ENFORCEMENT DIVISION**  
**SPECIAL LOCAL WATERCRAFT CONTROLS**

**R 281.700.1**

Source: 1979 AC.

**R 281.700.2**

Source: 1979 AC.

**R 281.700.3**

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Source: 1979 AC.

**R 281.701.1**

Source: 1979 AC.

**R 281.701.2**

Source: 1979 AC.

**R 281.701.3**

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**R 281.701.4**

Source: 1979 AC.

**R 281.702.1**

Source: 1979 AC.

**R 281.702.2**

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**R 281.702.3**

Source: 1979 AC.

**R 281.703.1**

Source: 1979 AC.

**R 281.703.2**

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**R 281.703.3**

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**R 281.703.8**

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**R 281.703.9**

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**R 281.703.10**

Source: 1979 AC.

**R 281.703.11**

Source: 1979 AC.

**R 281.703.12**

Source: 1984 AACCS.

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**R 281.704.1**  
Source: 1979 AC.

**R 281.705.1**  
Source: 1979 AC.

**R 281.705.2**  
Source: 1979 AC.

**R 281.705.3**  
Source: 1979 AC.

**R 281.705.4**  
Source: 1979 AC.

**R 281.705.5**  
Source: 1981 AACCS.

**R 281.706.1**  
Source: 1979 AC.

**R 281.706.2**  
Source: 1979 AC.

**R 281.707.1**  
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**R 281.707.2**  
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**R 281.707.6**  
Source: 1979 AC.

**R 281.707.7**  
Source: 1979 AC.

**R 281.707.8**  
Source: 1981 AACCS.

**R 281.708.1**  
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**R 281.708.2**  
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**R 281.708.3**  
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**R 281.708.4**  
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**R 281.708.5**  
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**R 281.708.7**  
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**R 281.709.2**  
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**R 281.709.3**  
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**R 281.709.4**  
Source: 1982 AACS.

**R 281.709.5**  
Source: 1983 AACS.

**R 281.710.1**  
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**R 281.710.8**  
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**R 281.711.1**  
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**R 81.711.2**

Source: 1979 AC.

**R 281.711.3**

Source: 1979 AC.

**R 281.711.4**

Source: 1979 AC.

**R 281.711.5**

Source: 1982 AACCS.

**R 281.711.6**

Source: 1984 AACCS.

**R 281.712.1**

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**R 281.712.12**

Source: 1979 AC.

**R 281.712.13**

Source: 1979 AC.

**R 281.712.14**

Source: 1979 AC.

**R 281.712.15**

Source: 1979 AC.

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**R 281.712.18**  
Source: 1979 AC.

**R 281.712.19**  
Source: 1979 AC.

**R 281.712.20**  
Source: 1979 AC.

**R 281.712.21**  
Source: 1979 AC.

**R 281.713.1**  
Source: 1979 AC.

**R 281.713.2**  
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**R 281.713.3**  
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**R 281.713.4**  
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**R 281.713.5**  
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**R 281.713.6**  
Source: 1979 AC.

**R 281.713.7**  
Source: 1979 AC.

**R 281.713.8**  
Source: 1984 AACCS.

**R 281.714.1**  
Source: 1979 AC.

**R 281.714.2**  
Source: 1979 AC.

**R 281.714.3**  
Source: 1979 AC.

**R 281.714.4**  
Source: 1979 AC.

**R 281.714.5**  
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**R 281.714.6**  
Source: 1979 AC.

**R 281.714.7**  
Source: 1979 AC.

**R 281.714.8**  
Source: 1979 AC.

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**R 281.714.9**  
Source: 1979 AC.

**R 281.714.10**  
Source: 1979 AC.

**R 281.714.11**  
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**R 281.714.12**  
Source: 1979 AC.

**R 281.714.13**  
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**R 281.714.14**  
Source: 1979 AC.

**R 281.714.15**  
Source: 1979 AC.

**R 281.714.16**  
Source: 1979 AC.

**R 281.714.17**  
Source: 1984 AACS.

**R 281.714.18**  
Source: 1979 AC.

**R 281.714.19**  
Source: 1979 AC.

**R 281.715.1**  
Source: 1979 AC.

**R 281.715.2**  
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**R 281.716.1**  
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**R 281.716.2**  
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**R 281.716.3**  
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**R 281.716.4**  
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**R 281.716.5**  
Source: 1979 AC.

**R 281.716.6**  
Source: 1979 AC.

**R 281.716.7**  
Source: 1980 AACS.

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**R 281.717.8**

Source: 1979 AC.

**R 281.717.9**

Source: 1980 AACS.

**R 281.717.10**

Source: 1984 AACS.

**R 281.718.1**

Source: 1979 AC.

**R 281.718.2**

Source: 1979 AC.

**R 281.718.3**

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**R 281.718.4**

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**R 281.718.5**

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**R 281.718.10**

Source: 1979 AC.

**R 281.718.11**

Source: 1979 AC.

**R 281.718.12**

Source: 1979 AC.

**R 281.718.13**

Source: 1982 AACS.

**R 281.719.1**

Source: 1997 AACS.

**R 281.720.1**

Source: 1979 AC.

**R 281.720.7**

Source: 1979 AC.

**R 281.720.8**

Source: 1979 AC.

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**R 281.720.9**

Source: 1979 AC.

**R 281.720.10**

Source: 1979 AC.

**R 281.720.11**

Source: 1979 AC.

**R 281.720.12**

Source: 1985 AACCS.

**R 281.721.1**

Source: 1979 AC.

**R 281.721.2**

Source: 1979 AC.

**R 281.722.1**

Source: 1997 AACCS.

**R 281.723.1**

Source: 1979 AC.

**R 281.724.1**

Source: 1979 AC.

**R 281.724.2**

Source: 1979 AC.

**R 281.724.3**

Source: 1985 AACCS.

**R 281.725.1**

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**R 281.725.9**

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**R 281.725.10**  
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**R 281.725.11**  
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**R 281.725.12**  
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**R 281.725.13**  
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**R 281.725.15**  
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**R 281.725.16**  
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**R 281.726.1**  
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**R 281.727.1**  
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**R 281.727.2**  
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**R 281.728.1**  
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**R 281.728.9**  
Source: 1980 AACCS.

**R 281.728.10**  
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**R 281.730.1**  
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**R 281.730.2**  
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**R 281.730.3**  
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**R 281.730.8**  
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**R 281.730.9**  
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**R 281.730.10**  
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**R 281.730.11**  
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**R 281.735.1**  
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**R 281.735.2**  
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**R 281.735.3**  
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**R 281.735.4**  
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**R 281.735.5**  
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**R 281.736.2**  
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**R 281.736.3**  
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**R 281.736.4**  
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**R 281.736.5**  
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**R 281.736.6**  
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**R 281.736.7**  
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**R 281.737.1**  
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**R 281.737.2**  
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**R 281.737.3**  
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**R 281.737.4**  
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**R 281.737.6**  
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**R 281.737.7**  
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**R 281.738.1**  
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**R 281.738.2**  
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**R 281.738.8**  
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**R 281.738.9**  
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**R 281.738.10**  
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**R 281.739.1**  
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**R 281.739.7**  
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**R 281.739.8**  
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**R 281.739.10**  
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**R 281.740.1**  
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**R 281.740.8**

Source: 1979 AC.

**R 281.740.9**

Source: 1979 AC.

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**R 281.740.12**

Source: 1984 AACCS.

**R 281.741.1**

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**R 281.741.6**

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**R 281.741.8**

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**R 281.741.9**

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**R 281.743.1**

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**R 281.743.2**

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**R 281.743.3**

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**R 281.743.4**

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**R 281.743.5**

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**R 281.743.6**

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**R 281.743.7**  
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**R 281.743.8**  
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**R 281.743.9**  
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**R 281.744.1**  
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**R 281.744.2**  
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**R 281.744.6**  
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**R 281.744.7**  
Source: 1982 AACS.

**R 281.744.8**  
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**R 281.746.1**  
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**R 281.746.1**  
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**R 281.746.2**  
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**R 281.746.3**  
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**R 281.746.8**  
Source: 1980 AACS.

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**R 281.746.9**  
Source: 1982 AACCS.

**R 281.746.10**  
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**R 281.747.1**  
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**R 281.747.15**  
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**R 281.747.16**  
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**R 281.747.17**  
Source: 1979 AC.

**R 281.747.18**  
Source: 1997 AACCS.

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**R 281.747.19**

Source: 1979 AC.

**R 281.747.21**

Source: 1981 AACCS.

**R 281.747.22**

Source: 1981 AACCS.

**R 281.748.1**

Source: 1979 AC.

**R 281.748.2**

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**R 281.748.3**

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**R 281.748.13**

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**R 281.748.14**

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**R 281.749.1**

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**R 281.750.1**

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**R 281.750.2**

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**R 281.750.3**  
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**R 281.750.4**  
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**R 281.752.6**  
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**R 281.754.10**  
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**R 281.761.7**

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**R 281.761.8**  
Source: 1983 AACCS.

**R 281.762.1**  
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**R 281.763.40**  
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**R 281.763.41**  
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**R 281.763.44**  
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**R 281.763.45**  
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**R 281.763.54**  
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**R 281.763.55**  
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**R 281.763.57**  
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**R 281.763.58**  
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**R 281.763.59**  
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**R 281.763.60**  
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**R 281.763.61**  
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**R 281.763.62**  
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**R 281.763.65**  
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**R 281.763.66**  
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**R 281.763.67**  
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**R 281.764.2**  
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**R 281.764.4**  
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**R 281.764.5**  
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**R 281.765.5**  
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**R 281.765.7**

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**R 281.765.14**

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**R 281.766.1**

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**R 281.767.1**

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**R 281.767.2**

Source: 1979 AC.

**R 281.768.1**

Source: 1979 AC.

**R 281.768.2**

Source: 1979 AC.

**R 281.768.3**

Source: 1979 AC.

**R 281.768.4**

Source: 1979 AC.

**R 281.768.5**

Source: 1979 AC.

**R 281.769.1**

Source: 1979 AC.

**R 281.769.2**

Source: 1979 AC.

**R 281.769.3**

Source: 1979 AC.

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**R 281.769.4**  
Source: 1979 AC.

**R 281.769.5**  
Source: 1979 AC.

**R 281.769.6**  
Source: 1979 AC.

**R 281.769.7**  
Source: 1979 AC.

**R 281.769.8**  
Source: 1979 AC.

**R 281.769.9**  
Source: 1979 AC.

**R 281.769.10**  
Source: 1979 AC.

**R 281.769.11**  
Source: 1979 AC.

**R 281.769.12**  
Source: 1979 AC.

**R 281.769.13**  
Source: 1979 AC.

**R 281.770.1**  
Source: 1979 AC.

**R 281.770.2**  
Source: 1998-2000 AACCS.

**R 281.770.3**  
Source: 1979 AC.

**R 281.770.4**  
Source: 1979 AC.

**R 281.770.5**  
Source: 1979 AC.

**R 281.770.6**  
Source: 1979 AC.

**R 281.770.7**  
Source: 1979 AC.

**R 281.770.8**  
Source: 1979 AC.

**R 281.770.9**  
Source: 1979 AC.

**R 281.770.10**  
Source: 1979 AC.

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**R 281.770.11**

Source: 1979 AC.

**R 281.770.12**

Source: 1979 AC.

**R 281.770.13**

Source: 2002 AACS.

**R 281.770.14**

Source: 1979 AC.

**R 281.770.15**

Source: 1979 AC.

**R 281.770.16**

Source: 1979 AC.

**R 281.770.17**

Source: 1979 AC.

**R 281.770.18**

Source: 1979 AC.

**R 281.770.19**

Source: 1979 AC.

**R 281.770.20**

Source: 1979 AC.

**R 281.770.21**

Source: 1979 AC.

**R 281.770.22**

Source: 1979 AC.

**R 281.770.23**

Source: 1979 AC.

**R 281.770.24**

Source: 1979 AC.

**R 281.770.25**

Source: 1979 AC.

**R 281.770.26**

Source: 1979 AC.

**R 281.770.27**

Source: 1979 AC.

**R 281.771.1**

Source: 1979 AC.

**R 281.771.2**

Source: 1979 AC.

**R 281.771.3**

Source: 1979 AC.

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**R 281.771.4**  
Source: 1979 AC.

**R 281.771.5**  
Source: 1979 AC.

**R 281.771.6**  
Source: 1979 AC.

**R 281.771.7**  
Source: 1979 AC.

**R 281.771.8**  
Source: 1979 AC.

**R 281.771.9**  
Source: 1980 AACCS.

**R 281.772.1**  
Source: 1979 AC.

**R 281.772.2**  
Source: 1979 AC.

**R 281.772.3**  
Source: 1979 AC.

**R 281.772.4**  
Source: 1979 AC.

**R 281.772.5**  
Source: 1979 AC.

**R 281.772.6**  
Source: 1979 AC.

**R 281.772.7**  
Source: 1979 AC.

**R 281.772.8**  
Source: 1979 AC.

**R 281.772.9**  
Source: 1979 AC.

**R 281.774.1**  
Source: 1979 AC.

**R 281.774.2**  
Source: 1979 AC.

**R 281.774.3**  
Source: 1979 AC.

**R 281.774.4**  
Source: 1979 AC.

**R 281.774.5**  
Source: 1979 AC.

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**R 281.774.6**  
Source: 1979 AC.

**R 281.774.7**  
Source: 1979 AC.

**R 281.774.8**  
Source: 1979 AC.

**R 281.774.9**  
Source: 1979 AC.

**R 281.774.10**  
Source: 1979 AC.

**R 281.774.11**  
Source: 1979 AC.

**R 281.774.12**  
Source: 1979 AC.

**R 281.774.13**  
Source: 1979 AC.

**R 281.774.14**  
Source: 1979 AC.

**R 281.774.15**  
Source: 1979 AC.

**R 281.774.16**  
Source: 1979 AC.

**R 281.774.18**  
Source: 1983 AACCS.

**R 281.775.1**  
Source: 1979 AC.

**R 281.775.2**  
Source: 1979 AC.

**R 281.775.3**  
Source: 1979 AC.

**R 281.775.4**  
Source: 1979 AC.

**R 281.775.5**  
Source: 1979 AC.

**R 281.777.1**  
Source: 1979 AC.

**R 281.777.2**  
Source: 1979 AC.

**R 281.777.3**  
Source: 1979 AC.

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**R 281.777.4**  
Source: 1981 AACCS.

**R 281.779.1**  
Source: 1979 AC.

**R 281.780.1**  
Source: 1979 AC.

**R 281.780.2**  
Source: 1979 AC.

**R 281.780.3**  
Source: 1979 AC.

**R 281.780.4**  
Source: 1979 AC.

**R 281.780.5**  
Source: 1979 AC.

**R 281.780.6**  
Source: 1979 AC.

**R 281.780.7**  
Source: 1979 AC.

**R 281.780.8**  
Source: 1979 AC.

**R 281.780.9**  
Source: 1983 AACCS.

**R 281.781.1**  
Source: 1979 AC.

**R 281.781.2**  
Source: 1979 AC.

**R 281.781.3**  
Source: 1979 AC.

**R 281.781.4**  
Source: 1979 AC.

**R 281.781.5**  
Source: 1979 AC.

**R 281.781.6**  
Source: 1979 AC.

**R 281.781.7**  
Source: 1979 AC.

**R 281.781.8**  
Source: 1979 AC.

**R 281.781.9**  
Source: 1979 AC.

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**R 281.781.10**  
Source: 1997 AACCS.

**R 281.781.11**  
Source: 1979 AC.

**R 281.781.12**  
Source: 1980 AACCS.

**R 281.782.1**  
Source: 1979 AC.

**R 281.782.2**  
Source: 1979 AC.

**R 281.782.3**  
Source: 1979 AC.

**R 281.782.4**  
Source: 1979 AC.

**R 281.782.5**  
Source: 1979 AC.

**R 281.782.6**  
Source: 1979 AC.

**R 281.782.7**  
Source: 1979 AC.

**R 281.782.8**  
Source: 1979 AC.

**R 281.782.9**  
Source: 1979 AC.

**R 281.782.10**  
Source: 1979 AC.

**R 281.782.11**  
Source: 1979 AC.

**R 281.782.12**  
Source: 1979 AC.

**R 281.782.13**  
Source: 1979 AC.

**R 281.782.14**  
Source: 1979 AC.

**R 281.782.15**  
Source: 1979 AC.

**R 281.782.16**  
Source: 1979 AC.

**R 281.782.17**  
Source: 1979 AC.

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**R 281.782.18**

Source: 1979 AC.

**R 281.782.19**

Source: 1979 AC.

**R 281.782.20**

Source: 1979 AC.

**R 281.782.21**

Source: 1979 AC.

**R 281.782.22**

Source: 1979 AC.

**R 281.782.23**

Source: 1979 AC.

**R 281.782.24**

Source: 1979 AC.

**R 281.782.25**

Source: 1997 AACS.

**R 281.782.26**

Source: 1985 AACS.

**R 281.783.1**

Source: 1979 AC.

**R 281.783.2**

Source: 1979 AC.

**DEPARTMENT OF ENVIRONMENTAL QUALITY**

**LAND AND WATER MANAGEMENT DIVISION**

**INLAND LAKES AND STREAMS**

**R 281.811 Definitions.**

Rule 1. (1) As used in these rules:

(a) "Act" means Act No. 451 of the Public Acts of 1994, as amended, being S324.101 et seq. of the Michigan Compiled Laws.

(b) "Applicant" means a person applying for a permit under the act.

(c) "Bottomland dredging" means dredging of channels and canals and the removal of any rock, stone, soil, or other material from bottomlands.

(d) "Bottomland filling" means the placement of rock, stone, soil, or other material on bottomlands.

(e) "Placement of structures on bottomlands" does not mean the installation of clear span overhead utility wires if they do not restrict navigation for watercraft that typically ply the waterway and if they provide equal or greater clearance than other permanent overhead restrictions in the immediate area or utility lines installed as an integral part of a bridge superstructure and above the elevation of the low beam or utility lines immediately above the top of a culvert.

(f) "Public trust" means all of the following:

(i) The paramount right of the public to navigate and fish in all inland lakes and streams that are navigable.

(ii) The perpetual duty of the state to preserve and protect the public's right to navigate and fish in all inland lakes and streams that are navigable.

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(iii) The paramount concern of the public and the protection of the air, water, and other natural resources of this state against pollution, impairment, and destruction.

(iv) The duty of the state to protect the air, water, and other natural resources of this state against pollution, impairment, or destruction.

(g) "Reasonable sanding of beaches to the existing water's edge" means placing a layer of sand which is free of organic or other pollutant materials and which does not shift the location of the existing ordinary high watermark or shoreline contour.

(2) "Riparian rights," as defined in the act, means all the rights accruing to the owners of riparian property, including the following rights, subject to the public trust:

(a) Access to the navigable waters.

(b) Dockage to boatable waters, known as wharfage.

(c) Use of water for general purposes, such as bathing and domestic use.

(d) Title to natural accretions.

(3) Terms defined in the act have the same meanings when used in these rules.

History: 1979 AC; 1982 AACS; 1985 AACS; 1998-2000 AACS; 2015 MR 5, Eff. March 11, 2015.

**R 281.812**

**Source:** 1979 AC.

**R 281.813**

**Source:** 1998-2000 AACS.

**R 281.814**

**Source:** 1998-2000 AACS.

**R 281.815**

**Source:** 1998-2000 AACS.

**R 281.816**

**Source:** 2012 AACS.

**R 281.817**

**Source:** 1998-2000 AACS.

**R 281.818**

**Source:** 1998-2000 AACS.

**R 281.819**

**Source:** 2010 AACS.

**R 281.821**

**Source:** 1982 AACS.

**R 281.822**

**Source:** 1982 AACS.

**R 281.821**

**Source:** 1982 AACS.

**R 281.823**

**Source:** 1985 AACS.

**R 281.824**

**Source:** 1982 AACS.

**R 281.832**

**Source:** 1998-2000 AACS.

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**R 281.833**

Source: 1998-2000 AACS.

**R 281.834**

Source: 1998-2000 AACS.

**R 281.835**

Source: 1998-2000 AACS.

**R 281.837**

Source: 1998-2000 AACS.

**R 281.838**

Source: 1979 AC.

**R 281.839**

Source: 1998-2000 AACS.

**R 281.841**

Source: 1998-2000 AACS.

**R 281.842**

Source: 1998-2000 AACS.

**R 281.843**

Source: 1998-2000 AACS.

**R 281.844**

Source: 1998-2000 AACS.

**R 281.845**

Source: 1979 AC.

**R 281.846**

Source: 1979 AC.

Source: 1997 AACS.

**WETLAND PROTECTION**

**R 281.921**

Source: 1988 AACS.

**R 281.922**

Source: 1988 AACS.

**R 281.923**

Source: 1988 AACS.

**R 281.924**

Source: 2006 AACS.

**R 281.925**

Source: 1988 AACS.

**LAND AND WATER MANAGEMENT DIVISION**

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**WETLAND MITIGATION BANKING**

**R 281.951**  
Source: 1997 AACS.

**R 281.952**  
Source: 1997 AACS.

**R 281.953**  
Source: 1997 AACS.

**R 281.954**  
Source: 1997 AACS.

**R 281.955**  
Source: 1997 AACS.

**R 281.956**  
Source: 1997 AACS.

**R 281.957**  
Source: 1997 AACS.

**R 281.958**  
Source: 1997 AACS.

**R 281.959**  
Source: 1997 AACS.

**R 281.960**  
Source: 1997 AACS.

**R 281.961**  
Source: 1997 AACS.

**DEPARTMENT OF NATURAL RESOURCES**

**LAW ENFORCEMENT DIVISION**

**GENERAL RULES**

**R 281.1001**  
Source: 2014 AACS.

**R 281.1002**  
Source: 1979 AC.

**R 281.1003**  
Source: 1979 AC.

**R 281.1004**  
Source: 1979 AC.

**R 281.1005**  
Source: 1979 AC.

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**R 281.1006**  
Source: 1979 AC.

**R 281.1007**  
Source: 1979 AC.

**PART 2. WATERCRAFT CAPACITY AND HORSEPOWER FORMULA**

**R 281.1021**  
Source: 1979 AC.

**R 281.1022**  
Source: 1979 AC.

**R 281.1023**  
Source: 1979 AC.

**R 281.1024**  
Source: 1979 AC.

**R 281.1025**  
Source: 1979 AC.

**PART 3. STATE AID FOR MARINE SAFETY PROGRAMS**

**R 281.1031**  
Source: 2014 AACS.

**R 281.1032**  
Source: 1979 AC.

**R 281.1033**  
Source: 2014 AACS.

**R 281.1034**  
Source: 2014 AACS.

**R 281.1035**  
Source: 1979 AC.

**R 281.1036**  
Source: 1979 AC.

**R 281.1037**  
Source: 1979 AC.

**R 281.1038**  
Source: 1979 AC.

**R 281.1039**  
Source: 1979 AC.

**R 281.1040**  
Source: 1979 AC.

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**PART 4. NUMBERING OF MOTORBOATS**

**R 281.1051**  
Source: 1979 AC.

**DEPARTMENT OF NATURAL RESOURCES**

**LAW ENFORCEMENT DIVISION**

**STATE UNIFORM WATERWAY MARKING SYSTEM**

**R 281.1101**  
Source: 2014 AACs.

**R 281.1102**  
Source: 1979 AC.

**R 281.1103**  
Source: 1979 AC.

**R 281.1104**  
Source: 1979 AC.

**R 281.1105**  
Source: 1979 AC.

**R 281.1106**  
Source: 1979 AC.

**R 281.1107**  
Source: 1979 AC.

**R 281.1108**  
Source: 1979 AC.

**R 281.1109**  
Source: 1979 AC.

**R 281.1110**  
Source: 1979 AC.

**R 281.1111**  
Source: 1979 AC.

**R 281.1112**  
Source: 1979 AC.

**R 281.1113**  
Source: 2004 AACs.

**R 281.1114**  
Source: 1979 AC.

**DEPARTMENT OF NATURAL RESOURCES**

**LAW ENFORCEMENT DIVISION**

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**NUMBERING OF VESSELS AND MOTORBOATS**

**R 281.1201**  
Source: 2013 AACS.

**R 281.1202**  
Source: 1979 AC.

**R 281.1203**  
Source: 1979 AC.

**R 281.1204**  
Source: 2013 AACS.

**R 281.1205**  
Source: 1979 AC.

**R 281.1206**  
Source: 2013 AACS.

**R 281.1207**  
Source: 1979 AC.

**R 281.1208**  
Source: 2013 AACS.

**R 281.1209**  
Source: 1979 AC.

**DEPARTMENT OF NATURAL RESOURCES**

**LAW ENFORCEMENT DIVISION**

**MARINE COLLISIONS, ACCIDENTS, OR OTHER CASUALTIES**

**R 281.1221**  
Source: 2013 AACS.

**R 281.1222**  
Source: 1979 AC.

**R 281.1223**  
Source: 1979 AC.

**R 281.1224**  
Source: 2002 AACS.

**R 281.1225**  
Source: 1979 AC.

**R 281.1226**  
Source: 1979 AC.

**DEPARTMENT OF NATURAL RESOURCES**

**LAW ENFORCEMENT DIVISION**

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**ASSOCIATED EQUIPMENT ON VESSELS**

**R 281.1231**  
Source: 2010 AACS.

**R 281.1232**  
Source: 1979 AC.

**R 281.1233**  
Source: 1979 AC.

**R 281.1234**  
Source: 1979 AC.

**R 281.1235**  
Source: 2010 AACS.

**R 281.1236**  
Source: 2010 AACS.

**R 281.1237**  
Source: 2010 AACS.

**R 281.1238**  
Source: 2010 AACS.

**R 281.1239**  
Source: 2010 AACS.

**OUTBOARD MOTORBOATS**

**R 281.1240**  
Source: 2010 AACS.

**R 281.1241**  
Source: 2010 AACS.

**R 281.1242**  
Source: 2010 AACS.

**R 281.1243**  
Source: 2010 AACS.

**INBOARD AND INBOARD-OUTBOARD MOTORBOATS**

**R 281.1244**  
Source: 2010 AACS.

**R 281.1245**  
Source: 2010 AACS.

**R 281.1246**  
Source: 2010 AACS.

**R 281.1247**  
Source: 2010 AACS.

**SAILBOATS AND OTHER TYPES OF BOATS**

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**R 281.1248**  
Source: 2010 AACS.

**R 281.1249**  
Source: 2010 AACS.

**R 281.1250**  
Source: 2010 AACS.

**R 281.1251**  
Source: 2010 AACS.

**R 281.1252**  
Source: 2010 AACS.

**DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**LAND AND WATER MANAGEMENT DIVISION**  
**DAMN SAFETY**

**R 281.1301**  
Source: 1993 AACS.

**R 281.1302**  
Source: 1993 AACS.

**R 281.1303**  
Source: 1993 AACS.

**R 281.1304**  
Source: 1993 AACS.

**R 281.1305**  
Source: 1993 AACS.

**R 281.1306**  
Source: 1993 AACS.

**R 281.1307**  
Source: 1993 AACS.

**R 281.1308**  
Source: 1993 AACS.

**R 281.1309**  
Source: 1993 AACS.

**R 281.1310**  
Source: 1993 AACS.

**R 281.1311**  
Source: 1993 AACS.

**R 281.1312**  
Source: 1993 AACS.

**R 281.1313**

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**Source:** 1993 AACS.

**DEPARTMENT OF STATE**  
**BUREAU OF DRIVER AND VEHICLE SERVICES**  
**WATERCRAFT TITLING**

**R 281.2201**

**Source:** 1980 AACS.

**R 281.2202**

**Source:** 1980 AACS.

**R 281.2203**

**Source:** 1980 AACS.

**R 281.2204**

**Source:** 1980 AACS.

**R 281.2205**

**Source:** 1980 AACS.

**R 281.2206**

**Source:** 1980 AACS.

**R 281.2207**

**Source:** 1980 AACS.

**R 281.2208**

**Source:** 1980 AACS.

**R 281.2209**

**Source:** 1980 AACS.

**R 281.2210**

**Source:** 1980 AACS.

**R 281.2211**

**Source:** 1980 AACS.

**R 281.2212**

**Source:** 1980 AACS.

**R 281.2213**

**Source:** 1980 AACS.

**R 281.2214**

**Source:** 1980 AACS.

**R 281.2215**

**Source:** 1980 AACS.

**R 281.2216**

**Source:** 1980 AACS.

**R 281.2217**

**Source:** 1980 AACS.

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**R 281.2218**  
Source: 1980 AACS.

**R 281.2219**  
Source: 1980 AACS.

**DEPARTMENT OF NATURAL RESOURCES**  
**LAW ENFORCEMENT DIVISION**  
**VESSELS CARRYING PASSENGERS FOR HIRE**

**PART 1. GENERAL PROVISIONS**

**R 281.3101**  
Source: 2014 AACS.

**R 281.3102**  
Source: 1982 AACS.

**R 281.3103**  
Source: 1982 AACS.

**R 281.3104**  
Source: 1982 AACS.

**R 281.3105**  
Source: 2014 AACS.

**R 281.3106**  
Source: 2014 AACS.

**R 281.3107**  
Source: 1982 AACS.

**R 281.3108**  
Source: 1982 AACS.

**R 281.3109**  
Source: 1982 AACS.

**R 281.3110**  
Source: 1982 AACS.

**R 281.3111**  
Source: 1982 AACS.

**R 281.3112**  
Source: 1982 AACS.

**R 281.3113**  
Source: 2014 AACS.

**R 281.3114**  
Source: 1982 AACS.

**R 281.3115**  
Source: 1982 AACS.

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**R 281.3116**  
Source: 1982 AACS.

**R 281.3117**  
Source: 1982 AACS.

**R 281.3118**  
Source: 1982 AACS.

**R 281.3119**  
Source: 1982 AACS.

**R 281.3120**  
Source: 1982 AACS.

**R 281.3121**  
Source: 1982 AACS.

**R 281.3122**  
Source: 1982 AACS.

**R 281.3123**  
Source: 1982 AACS.

**R 281.3124**  
Source: 1982 AACS.

**R 281.3125**  
Source: 1982 AACS.

**R 281.3126**  
Source: 1982 AACS.

**R 281.3127**  
Source: 1982 AACS.

**R 281.3128**  
Source: 1982 AACS.

**R 281.3129**  
Source: 1982 AACS.

**R 281.3130**  
Source: 1982 AACS.

**PART 2. CLASS A VESSELS**

**R 281.3201**  
Source: 2014 AACS.

**R 281.3202**  
Source: 1982 AACS.

**R 281.3203**  
Source: 1982 AACS.

**R 281.3204**  
Source: 1982 AACS.

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**R 281.3205**  
Source: 1982 AACS.

**PART 3. CLASS B VESSELS**

**R 281.3301**  
Source: 2014 AACS.

**R 281.3302**  
Source: 1982 AACS.

**R 281.3303**  
Source: 1982 AACS.

**PART 4. CLASS C VESSELS**

**R 281.3401**  
Source: 2014 AACS.

**R 281.3402**  
Source: 1982 AACS.

**R 281.3403**  
Source: 1982 AACS.

**R 281.3404**  
Source: 1982 AACS.

**R 281.3405**  
Source: 1982 AACS.

**R 281.3406**  
Source: 1982 AACS.

**R 281.3407**  
Source: 1982 AACS.

**PART 5. CLASS D VESSELS**

**R 281.3501**  
Source: 1982 AACS.

**R 281.3502**  
Source: 2014 AACS.

**R 281.3503**  
Source: 1982 AACS.

**R 281.3504**  
Source: 1982 AACS.

**R 281.3505**  
Source: 1982 AACS.

**R 281.3506**  
Source: 1982 AACS.

**DEPARTMENT OF AGRICULTURE**

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**CONDUCT OF REFERENDA AND ELECTIONS**

**R 282.1**  
Source: 2004 AACS.

**R 282.2**  
Source: 2004 AACS.

**R 282.3**  
Source: 2004 AACS.

**R 282.4**  
Source: 2004 AACS.

**R 282.5**  
Source: 2004 AACS.

**R 282.6**  
Source: 2004 AACS.

**R 282.7**  
Source: 2004 AACS.

**R 282.8**  
Source: 2004 AACS.

**R 282.9**  
Source: 2004 AACS.

**R 282.10**  
Source: 2004 AACS.

**R 282.11**  
Source: 2004 AACS.

**DEPARTMENT OF AGRICULTURE**

**ELECTION OF DIRECTORS AT SOIL CONSERVATION DISTRICT ANNUAL MEETING**

**R 282.21a**  
Source: 2005 AACS.

**R 282.21b**  
Source: 2005 AACS.

**R 282.22**  
Source: 2005 AACS.

**R 282.23**  
Source: 2005 AACS.

**R 282.24**  
Source: 2005 AACS.

**DEPARTMENT OF AGRICULTURE**

**HEARING SCHEDULE**

**R 282.51**  
Source: 2005 AACS.

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**R 282.52**  
Source: 2005 AACS.

**R 282.53**  
Source: 2005 AACS.

**DEPARTMENT OF AGRICULTURE**

**EXECUTIVE DIVISION**

**REGULATION NO.50. WEATHER MODIFICATION CONTROL**

**R 285.50.1**  
Source: 2005 AACS.

**R 285.50.2**  
Source: 2005 AACS.

**R 285.50.3**  
Source: 2005 AACS.

**R 285.50.4**  
Source: 2005 AACS.

**R 285.50.5**  
Source: 2005 AACS.

**R 285.50.6**  
Source: 2005 AACS.

**R 285.50.7**  
Source: 2005 AACS.

**R 285.50.8**  
Source: 2005 AACS.

**R 285.50.9**  
Source: 2005 AACS.

**R 285.50.10**  
Source: 2005 AACS.

**R 285.50.11**  
Source: 2005 AACS.

**R 285.50.12**  
Source: 2005 AACS.

**DEPARTMENT OF AGRICULTURE**

**ANIMAL HEALTH DIVISION**

**R 285.100.1**  
Source: 1997 AACS.

**BOVINE TUBERCULOSIS OR BRUCELLOSIS**

**R 285.101.1**

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Source: 1997 AACS.

**REGULATION NO. 102. TUBERCULIN TESTING AND CONTROL OF TUBERCULOSIS**

**R 285.102.1**

Source: 1997 AACS.

**REGULATION NO. 107. CONTAGIOUS AND INFECTIOUS DISEASES IN POULTRY**

**R 285.107.1**

Source: 1998-2000 AACS.

**REGULATION NO. 109. INTRASTATE MOVEMENT OF SWINE**

**R 285.109.1**

Source: 1997 AACS.

**REGULATION NO. 110. IMPORTATION OF SWINE**

**R 285.110.1**

Source: 1997 AACS.

**REGULATION NO. 113. QUARANTINE OF DOGS**

**R 285.113.1**

Source: 2014 AACS.

**REGULATION NO. 114. CONTAGIOUS AND INFECTIOUS LIVESTOCK DISEASES**

**R 285.114.1**

Source: 1998-2000 AACS.

**REGULATION NO. 117. PUBLIC EXHIBITION OF LIVESTOCK**

**R 285.117.1**

Source: 1998-2000 AACS.

**REGULATION NO. 118. REDUCTION PLANTS FOR DISPOSAL OF DEAD ANIMALS**

**R 285.118.1**

Source: 1998-2000 AACS.

**REGULATION NO. 119. LIVESTOCK DISEASES**

**R 285.119.1**

Source: 2014 AACS.

**REGULATION NO. 120. LICENSING OF LIVESTOCK YARDS**

**R 285.120.1**

Source: 1997 AACS.

**REGULATION NO. 121. LIVESTOCK DISEASES**

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**R 285.121.1**  
Source: 1998-2000 AACS.

**REGULATION NO. 123. PREVENTING SPREAD OF BRUCELLOSIS**

**R 285.123.1**  
Source: 1997 AACS.

**R 285.123.2**  
Source: 1997 AACS.

**REGULATION NO. 124. TUBERCULIN AND BLOOD TESTING**

**R 285.124.1**  
Source: 1998-2000 AACS.

**REGULATION NO. 127. TUBERCULIN TESTING AND TESTING FOR CONTROL OF BRUCELLOSIS**

**R 285.127.1**  
Source: 1997 AACS.

**REGULATION NO. 129. DOG KENNELS**

**R 285.129.1**  
Source: 1979 AC.

**REGULATION NO. 133. PUBLIC EXHIBITION OF POULTRY**

**R 285.133.1**  
Source: 1998-2000 AACS.

**REGULATION NO. 135. SERUMS, ANTIGENS, AND VACCINES**

**R 285.135.1**  
Source: 1998-2000 AACS.

**REGULATION NO. 136. FEEDING GARBAGE TO SWINE**

**R 285.136.1**  
Source: 2014 AACS.

**REGULATION NO. 138. RECORDS**

**R 285.138.1**  
Source: 2013 AACS.

**REGULATION NO. 140. BRUCELLOSIS-FREE HERDS**

**R 285.141.1**

**R 285.140.1**  
Source: 1998-2000 AACS.

**REGULATION NO. 141. APPROVAL OF CALFHOOD VACCINATIONS**

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Source: 1998-2000 AACS.

**REGULATION NO. 142. AREA TESTING**

**R 285.142.1**

Source: 1998-2000 AACS.

**REGULATION NO. 144. CLAIMS AGAINST LIVESTOCK AUCTIONS**

**R 285.144.1**

Source: 1979 AC.

**REGULATION NO. 145. MOVEMENT OF SHEEP**

**R 285.145.1**

Source: 1998-2000 AACS.

**REGULATION NO. 146. HUMANE SLAUGHTER METHODS**

**R 285.146.1**

Source: 1979 AC.

**REGULATION NO. 147. STARTED PULLETS**

**R 285.147.1**

Source: 1979 AC.

**REGULATION NO. 148. STATEWIDE MEAT INSPECTION**

**PART 1. GENERAL PROVISIONS**

**R 285.148.1**

Source: 1997 AACS.

**R 285.148.2**

Source: 1997 AACS.

**R 285.148.3**

Source: 1997 AACS.

**R 285.148.4**

Source: 1997 AACS.

**R 285.148.5**

Source: 1997 AACS.

**R 285.148.6**

Source: 1997 AACS.

**R 285.148.7**

Source: 1997 AACS.

**R 285.148.8**

Source: 1997 AACS.

**R 285.148.9**

Source: 1997 AACS.

**R 285.148.10**

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**Source:** 1997 AACS.

**R 285.148.11**

**Source:** 1997 AACS.

**R 285.148.12**

**Source:** 1997 AACS.

**R 285.148.13**

**Source:** 1997 AACS.

**R 285.148.14**

**Source:** 1997 AACS.

**R 285.148.15**

**Source:** 1997 AACS.

**R 285.148.16**

**Source:** 1997 AACS.

**R 285.148.17**

**Source:** 1997 AACS.

**R 285.148.18**

**Source:** 1997 AACS.

**R 285.148.19**

**Source:** 1997 AACS.

**R 285.148.20**

**Source:** 1997 AACS.

**R 285.148.21**

**Source:** 1997 AACS.

**PART 2. CONSTRUCTION, EQUIPMENT, AND SANITATION**

**R 285.148.101**

**Source:** 1997 AACS.

**R 285.148.102**

**Source:** 1997 AACS.

**R 285.148.103**

**Source:** 1997 AACS.

**R 285.148.104**

**Source:** 1997 AACS.

**R 285.148.105**

**Source:** 1997 AACS.

**R 285.148.106**

**Source:** 1997 AACS.

**R 285.148.107**

**Source:** 1997 AACS.

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**R 285.148.108**  
Source: 1997 AACS.

**R 285.148.109**  
Source: 1997 AACS.

**R 285.148.110**  
Source: 1997 AACS.

**R 285.148.111**  
Source: 1997 AACS.

**R 285.148.112**  
Source: 1997 AACS.

**R 285.148.113**  
Source: 1997 AACS.

**R 285.148.114**  
Source: 1997 AACS.

**R 285.148.115**  
Source: 1997 AACS.

**R 285.148.116**  
Source: 1997 AACS.

**R 285.148.117**  
Source: 1997 AACS.

**R 285.148.118**  
Source: 1997 AACS.

**R 285.148.119**  
Source: 1997 AACS.

**R 285.148.120**  
Source: 1997 AACS.

**R 285.148.121**  
Source: 1997 AACS.

**R 285.148.122**  
Source: 1997 AACS.

**R 285.148.123**  
Source: 1997 AACS.

**R 285.148.124**  
Source: 1997 AACS.

**R 285.148.125**  
Source: 1997 AACS.

**PART 3. PROTECTION OF PRODUCT**

**R 285.148.201**  
Source: 1997 AACS.

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**R 285.148.202**  
Source: 1997 AACS.

**R 285.148.203**  
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**R 285.148.204**  
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**R 285.148.205**  
Source: 1997 AACS.

**R 285.148.206**  
Source: 1997 AACS.

**R 285.148.207**  
Source: 1997 AACS.

**R 285.148.208**  
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**R 285.148.209**  
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**R 285.148.210**  
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**R 285.148.211**  
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**R 285.148.212**  
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**R 285.148.213**  
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**R 285.148.214**  
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**R 285.148.215**  
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**R 285.148.216**  
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**R 285.148.217**  
Source: 1997 AACS.

**R 285.148.218**  
Source: 1997 AACS.

**PART 4. ANTE-MORTEM AND POST-MORTEM INSPECTIONS**

**R 285.148.301**  
Source: 1997 AACS.

**R 285.148.302**  
Source: 1997 AACS.

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**R 285.148.303**  
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**R 285.148.304**  
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**R 285.148.305**  
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**R 285.148.306**  
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**R 285.148.307**  
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**R 285.148.308**  
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**R 285.148.309**  
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**R 285.148.310**  
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**R 285.148.311**  
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**R 285.148.312**  
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**R 285.148.313**  
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**R 285.148.314**  
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**R 285.148.315**  
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**R 285.148.316**  
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**R 285.148.317**  
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**R 285.148.318**  
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**R 285.148.319**  
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**R 285.148.320**  
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**R 285.148.321**

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Source: 1997 AACS.

**R 285.148.322**

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**R 285.148.323**

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**R 285.148.324**

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**R 285.148.337**

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**R 285.148.338**

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**R 285.148.339**

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**R 285.148.340**  
Source: 1997 AACS.

**R 285.148.341**  
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**R 285.148.342**  
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**R 285.148.343**  
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**R 285.148.360**  
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**R 285.148.361**  
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**R 285.148.366**  
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**R 285.148.368**  
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**R 285.148.372**  
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**R 285.148.373**  
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**R 285.148.375**  
Source: 1997 AACS.

**R 285.148.376**  
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**R 285.148.377**  
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**R 285.148.378**  
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**R 285.148.381**  
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**R 285.148.382**  
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**R 285.148.383**  
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**R 285.148.384**  
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**R 285.148.385**  
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**R 285.148.386**  
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**R 285.148.387**  
Source: 1997 AACS.

**PART 5. DISPOSAL OF DISEASED CARCASSES AND PARTS**

**R 285.148.401**  
Source: 1997 AACS.

**R 285.148.402**  
Source: 1997 AACS.

**R 285.148.403**  
Source: 1997 AACS.

**R 285.148.404**  
Source: 1997 AACS.

**R 285.148.405**  
Source: 1997 AACS.

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**R 285.148.406**  
Source: 1997 AACS.

**R 285.148.407**  
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**R 285.148.408**  
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**R 285.148.409**  
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**R 285.148.410**  
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**R 285.148.411**  
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**R 285.148.412**  
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**R 285.148.413**  
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**R 285.148.414**  
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**R 285.148.423**  
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**R 285.148.424**  
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**R 285.148.425**  
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**R 285.148.426**  
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**R 285.148.427**  
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**R 285.148.428**  
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**R 285.148.429**  
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**R 285.148.430**  
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**R 285.148.431**  
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**R 285.148.432**  
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**R 285.148.433**  
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**R 285.148.434**  
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**R 285.148.435**  
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**R 285.148.436**  
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**R 285.148.437**  
Source: 1997 AACS.

**R 285.148.438**  
Source: 1997 AACS.

**PART 6. TANKING AND RENDERING**

**R 285.148.501**  
Source: 1997 AACS.

**R 285.148.502**  
Source: 1997 AACS.

**R 285.148.503**  
Source: 1997 AACS.

**R 285.148.504**  
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**R 285.148.505**  
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**R 285.148.506**  
Source: 1997 AACS.

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**R 285.148.507**  
Source: 1997 AACS.

**R 285.148.508**  
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**R 285.148.509**  
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**R 285.148.510**  
Source: 1997 AACS.

**R 285.148.511**  
Source: 1997 AACS.

**R 285.148.512**  
Source: 1997 AACS.

**R 285.148.513**  
Source: 1997 AACS.

**PART 7. MARKING, BRANDING, AND IDENTIFYING**

**R 285.148.601**  
Source: 1997 AACS.

**R 285.148.602**  
Source: 1997 AACS.

**R 285.148.603**  
Source: 1997 AACS.

**R 285.148.604**  
Source: 1997 AACS.

**R 285.148.605**  
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**R 285.148.606**  
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**R 285.148.607**  
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**R 285.148.608**  
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**R 285.148.609**  
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**R 285.148.610**  
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**R 285.148.611**  
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**R 285.148.612**  
Source: 1997 AACS.

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**R 285.148.613**  
Source: 1997 AACS.

**R 285.148.614**  
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**R 285.148.615**  
Source: 1997 AACS.

**PART 10. MISCELLANEOUS**

**R 285.148.901**  
Source: 1997 AACS.

**R 285.148.902**  
Source: 1997 AACS.

**R 285.148.903**  
Source: 1997 AACS.

**R 285.148.904**  
Source: 1997 AACS.

**R 285.148.905**  
Source: 1997 AACS.

**R 285.148.906**  
Source: 1997 AACS.

**R 285.148.907**  
Source: 1997 AACS.

**R 285.148.908**  
Source: 1997 AACS.

**R 285.148.909**  
Source: 1997 AACS.

**R 285.148.910**  
Source: 1997 AACS.

**R 285.148.911**  
Source: 1997 AACS.

**R 285.148.912**  
Source: 1997 AACS.

**R 285.148.913**  
Source: 1997 AACS.

**R 285.148.914**  
Source: 1997 AACS.

**REGULATION NO. 149. APPROVAL OF LOCAL MEAT INSPECTION PROGRAMS**

**R 285.149.1**  
Source: 2014 AACS.

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**R 285.149.2**  
Source: 2014 AACS.

**R 285.149.3**  
Source: 2014 AACS.

**R 285.149.4**  
Source: 2014 AACS.

**REGULATION NO. 150. DOGS AND CATS FOR RESEARCH**

**R 285.150.1**  
Source: 2014 AACS.

**R 285.150.3**  
Source: 2014 AACS.

**R 285.150.5**  
Source: 2014 AACS.

**R 285.150.21**  
Source: 2014 AACS.

**R 285.150.22**  
Source: 2014 AACS.

**R 285.150.23**  
Source: 2014 AACS.

**R 285.150.24**  
Source: 2014 AACS.

**R 285.150.25**  
Source: 2014 AACS.

**R 285.150.26**  
Source: 2014 AACS.

**R 285.150.27**  
Source: 2014 AACS.

**R 285.150.28**  
Source: 2014 AACS.

**R 285.150.29**  
Source: 2014 AACS.

**R 285.150.31**  
Source: 2014 AACS.

**R 285.150.32**  
Source: 2014 AACS.

**R 285.150.33**  
Source: 2014 AACS.

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**R 285.150.34**  
Source: 2014 AACS.

**R 285.150.35**  
Source: 2014 AACS.

**R 285.150.36**  
Source: 2014 AACS.

**R 285.150.37**  
Source: 2014 AACS.

**R 285.150.38**  
Source: 2014 AACS.

**R 285.150.39**  
Source: 2014 AACS.

**R 285.150.41**  
Source: 2014 AACS.

**R 285.150.42**  
Source: 2014 AACS.

**R 285.150.43**  
Source: 2014 AACS.

**R 285.150.44**  
Source: 2014 AACS.

**R 285.150.45**  
Source: 2014 AACS.

**R 285.150.46**  
Source: 2014 AACS.

**R 285.150.47**  
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**R 285.150.48**  
Source: 2014 AACS.

**R 285.150.49**  
Source: 2014 AACS.

**R 285.150.50**  
Source: 2014 AACS.

**R 285.150.51**  
Source: 2014 AACS.

**R 285.150.52**  
Source: 2014 AACS.

**R 285.150.53**

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Source: 2014 AACS.

**R 285.150.54**

Source: 2014 AACS.

**R 285.150.55**

Source: 2014 AACS.

**R 285.150.56**

Source: 2014 AACS.

**R 285.150.57**

Source: 2014 AACS.

**R 285.150.58**

Source: 2014 AACS.

**REGULATION NO. 151. PET SHOPS, DOG POUNDS, AND ANIMAL SHELTERS**

**R 285.151.1**

Source: 1979 AC.

**R 285.151.2**

Source: 1979 AC.

**R 285.151.11**

Source: 1979 AC.

**R 285.151.12**

Source: 1979 AC.

**R 285.151.13**

Source: 1979 AC.

**R 285.151.21**

Source: 1979 AC.

**R 285.151.22**

Source: 1979 AC.

**R 285.151.23**

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**R 285.151.24**

Source: 1979 AC.

**R 285.151.25**

Source: 1979 AC.

**R 285.151.26**

Source: 1979 AC.

**R 285.151.31**

Source: 1979 AC.

**R 285.151.32**

Source: 1979 AC.

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**R 285.151.33**  
Source: 1979 AC.

**R 285.151.34**  
Source: 1979 AC.

**R 285.151.35**  
Source: 1979 AC.

**R 285.151.36**  
Source: 1979 AC.

**R 285.151.37**  
Source: 1979 AC.

**R 285.151.41**  
Source: 1979 AC.

**REGULATION NO. 152. FEEDLOTS**

**R 285.152.1**  
Source: 1998-2000 AACS.

**R 285.152.2**  
Source: 1998-2000 AACS.

**R 285.152.3**  
Source: 1998-2000 AACS.

**R 285.152.4**  
Source: 1998-2000 AACS.

**R 285.152.5**  
Source: 1998-2000 AACS.

**R 285.152.6**  
Source: 1998-2000 AACS.

**R 285.152.7**  
Source: 1998-2000 AACS.

**R 285.152.8**  
Source: 1998-2000 AACS.

**R 285.152.9**  
Source: 1998-2000 AACS.

**R 285.152.10**  
Source: 1998-2000 AACS.

**REGULATION NO. 154. RIDING STABLES AND SALES BARNs**

**R 285.154.1**  
Source: 1979 AC.

**R 285.154.2**  
Source: 1979 AC.

**R 285.154.3**

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Source: 1979 AC.

**R 285.154.4**

Source: 1979 AC.

**R 285.154.5**

Source: 1979 AC.

**R 285.154.6**

Source: 1979 AC.

**R 285.154.7**

Source: 1979 AC.

**R 285.154.8**

Source: 1979 AC.

**R 285.154.9**

Source: 1979 AC.

**R 285.154.10**

Source: 1979 AC.

**R 285.154.11**

Source: 1979 AC.

**R 285.154.12**

Source: 1979 AC.

**R 285.154.13**

Source: 1979 AC.

**REGULATION NO. 156. DISPOSITION OF ANIMALS EXPOSED TO BRUCELLOSIS**

**R 285.156.1**

Source: 1998-2000 AACS.

**REGULATION NO. 202. FRESH FRUITS AND VEGEABLES CONTAINING POISONOUS  
SPRAY RESIDUE**

**R 285.202.1**

Source: 1979 AC.

**REGULATION NO. 203. DEFINITIONS**

**R 285.203.1**

Source: 1979 AC.

**REGULATION NO. 301. GENERAL MARKETING PROGRAM**

**R 285.301.1**

Source: 1979 AC.

**R 285.301.2**

Source: 1979 AC.

**R 285.301.3**

Source: 1979 AC.

**R 285.301.11**

Source: 1979 AC.

**R 285.301.12**

Source: 1979 AC.

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**R 285.301.13**  
Source: 1979 AC.

**R 285.301.14**  
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**R 285.301.15**  
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**R 285.301.16**  
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**R 285.301.17**  
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**R 285.301.21**  
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**R 285.301.25**  
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**R 285.301.31**  
Source: 1979 AC.

**R 285.301.32**  
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**R 285.301.33**  
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**R 285.301.34**  
Source: 1979 AC.

**R 285.301.35**  
Source: 1979 AC.

**R 285.301.36**  
Source: 1979 AC.

**R 285.301.37**  
Source: 1979 AC.

**R 285.301.40**  
Source: 1979 AC.

**REGULATION NO. 311. CHERRY ASSESSMENTS**

**R 285.311.1**  
Source: 2012 AACS.

**R 285.311.2**  
Source: 2012 AACS.

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**R 285.311.3**  
Source: 2012 AACS.

**R 285.311.4**  
Source: 2012 AACS.

**VALUE-ADDED AGRICULTURE PROCESSING AND AGRICULTURAL PRODUCTION VENTURES**

**R 285.351**  
Source: 2006 AACS.

**R 285.352**  
Source: 2006 AACS.

**R 285.353**  
Source: 2006 AACS.

**PART 2. REPORTING AND COMPLIANCE REQUIREMENTS**

**R 285.354**  
Source: 2006 AACS.

**R 285.355**  
Source: 2006 AACS.

**R 285.356**  
Source: 2006 AACS.

**REGULATION NO. 400. ICE CREAM**

**R 285.400.1**  
Source: 1979 AC.

**REGULATION NO. 401. SEDIMENT TESTS**

**R 285.401.1**  
Source: 1998-2000 AACS.

**REGULATION NO. 402. LICENSING OF TEST OPERATORS AND USE OF "BABCOCK" TEST**

**R 285.402.1**  
Source: 1979 AC.

**REGULATION NO. 403. MILK AND CREAM SOLD FOR DIRECT CONSUMPTION**

**R 285.403.1**  
Source: 1998-2000 AACS.

**REGULATION NO. 404. GRADING BUTTER**

**R 285.404.1**  
Source: 1979 AC.

**REGULATION NO. 405. FROZEN DESSERTS**

**R 285.404.1**  
Source: 1979 AC.

**R 285.404.2**  
Source: 1979 AC.

**R 285.404.5**  
Source: 1979 AC.

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**R 285.404.6**  
Source: 1979 AC.

**R 285.404.7**  
Source: 1979 AC.

**R 285.404.8**  
Source: 1979 AC.

**R 285.404.9**  
Source: 1979 AC.

**R 285.404.10**  
Source: 1979 AC.

**R 285.404.11**  
Source: 1979 AC.

**R 285.404.12**  
Source: 1979 AC.

**R 285.404.13**  
Source: 1979 AC.

**R 285.404.14**  
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**R 285.404.15**  
Source: 1979 AC.

**R 285.404.16**  
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**R 285.404.17**  
Source: 1979 AC.

**R 285.404.18**  
Source: 1979 AC.

**R 285.404.19**  
Source: 1979 AC.

**R 285.404.21**  
Source: 1979 AC.

**R 285.404.23**  
Source: 1979 AC.

**R 285.404.24**  
Source: 1979 AC.

**R 285.404.25**  
Source: 1979 AC.

**R 285.404.27**  
Source: 1979 AC.

**R 285.404.29**

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Source: 1979 AC.

**REGULATION NO. 406. COTTAGE CHEESE**

**R 285.406.1**

Source: 1998-2000 AACS.

**R 285.406.2**

Source: 1998-2000 AACS.

**REGULATION NO. 407. MILK MANUFACTURE**

**R 285.407.1**

Source: 1979 AC.

**R 285.407.2**

Source: 1979 AC.

**R 285.407.3**

Source: 1979 AC.

**R 285.407.4**

Source: 1979 AC.

**R 285.407.5**

Source: 1979 AC.

**R 285.407.6**

Source: 1979 AC.

**REGULATION NO. 408. FLUID MILK AND MILK PRODUCTS**

**R 285.408.1**

Source: 1979 AC.

**R 285.408.2**

Source: 1979 AC.

**R 285.408.3**

Source: 1979 AC.

**R 285.408.4**

Source: 1979 AC.

**R 285.408.5**

Source: 1979 AC.

**DAIRY DIVISION**

**REGULATION NO. 409. PRODUCER SECURITY**

**R 285.409.1**

Source: 1983 AACS.

**REGULATION NO. 502. GRADING, LABELING, AND MARKETING OF TOMATOES**

**R 285.502.1**

Source: 2013 AACS.

**REGULATION NO. 505. HONEY**

**R 285.505.1**

Source: 1979 AC.

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**R 285.505.1**

**REGULATION NO. 515. LICENSING OF CANNING PLANTS**

**R 285.515.1**

Source: 2012 AACS.

**REGULATION NO. 520. TOMATOES NOT RIPENED ON THE VINE**

**R 285.520.1**

Source: 1979 AC.

**AGRICULTURAL DEVELOPMENT DIVISION**

**REGULATION NO. 523. DRY EDIBLE BEANS**

**DEPARTMENT OF AGRICULTURE**

**R 285.523.1**

Source: 1998-2000 AACS.

**R. 285.523.2**

Source: 1998-2000 AACS.

**R 285.523.3**

Source: 1998-2000 AACS.

**R 285.523.4**

Source: 1998-2000 AACS.

**R 285.523.6**

Source: 1998-2000 AACS.

**R 285.523.7**

Source: 1998-2000 AACS.

**R 285.523.8**

Source: 1998-2000 AACS.

**R 285.523.9**

Source: 1998-2000 AACS.

**R 285.523.10**

Source: 1998-2000 AACS.

**R 285.523.11**

Source: 1998-2000 AACS.

**R 285.523.12**

Source: 1998-2000 AACS.

**FOOD INSPECTION DIVISION**

**REGULATION NO. 530. CONTROLLED ATMOSPHERE STORAGE FOR APPLES**

**R 285.530.1 Rescinded.**

History: 1954 ACS 23, Eff. Aug. 12, 1960; 1979 AC; 2001 MR 22, Eff. Dec. 4, 2001.

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**R 285.530.2 Rescinded.**

History: 1954 ACS 23, Eff. Aug. 12, 1960; 1979 AC; 2001 MR 22, Eff. Dec. 4, 2001.

**R 285.530.3 Rescinded.**

History: 1954 ACS 23, Eff. Aug. 12, 1960; 1954 ACS 41, Eff. Feb. 14, 1965; 1979 AC; 1994 MR 12, Eff. Jan. 3, 1995; 2001 MR 22, Eff. Dec. 4, 2001.

**REGULATION NO. 531. CELERY FOR SALE UNDER SEAL OF QUALITY**

**R 285.531.1**

Source: 2012 AACS.

**R 285.531.2**

Source: 2012 AACS.

**R 285.531.3**

Source: 2012 AACS.

**R 285.531.4**

Source: 2012 AACS.

**R 285.531.5**

Source: 2012 AACS.

**R 285.531.6**

Source: 2012 AACS.

**R 285.531.7**

Source: 2012 AACS.

**R 285.531.8**

Source: 2012 AACS.

**R 285.531.9**

Source: 2012 AACS.

**R 285.531.10**

Source: 2012 AACS.

**R 285.531.11**

Source: 2012 AACS.

**REGULATION NO. 532. SHELL EGGS FOR SALE UNDER SEAL OF QUALITY**

**R 285.532.1**

Source: 2012 AACS.

**R 285.532.2**

Source: 2012 AACS.

**R 285.532.3**

Source: 2012 AACS.

**R 285.532.4**

Source: 2012 AACS.

**R 285.532.5**

Source: 2012 AACS.

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**R 285.532.6**  
Source: 2012 AACS.

**R 285.532.7**  
Source: 2012 AACS.

**R 285.532.8**  
Source: 2012 AACS.

**R 285.532.9**  
Source: 2012 AACS.

**R 285.532.10**  
Source: 2012 AACS.

**R 285.532.11**  
Source: 2012 AACS.

**R 285.532.12**  
Source: 2012 AACS.

**REGULATION NO. 534. SEAL OF QUALITY**

**R 285.534.1**  
Source: 2012 AACS.

**REGULATION NO. 539. POTATOES FOR SALE UNDER SEAL OF QUALITY**

**R 285.539.1**  
Source: 2012 AACS.

**REGULATION NO. 541. SMOKED FISH**

**R 285.541.1**  
Source: 1997 AACS.

**R 285.541.2**  
Source: 1997 AACS.

**R 285.541.3**  
Source: 1997 AACS.

**R 285.541.4**  
Source: 1997 AACS.

**R 285.541.5**  
Source: 1997 AACS.

**R 285.541.6**  
Source: 1997 AACS.

**R 285.541.7**  
Source: 1997 AACS.

**R 285.541.8**  
Source: 1997 AACS.

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**R 285.541.9**  
Source: 1997 AACS.

**R 285.541.10**  
Source: 1997 AACS.

**R 285.541.11**  
Source: 1997 AACS.

**REGULATION NO. 542. GREENHOUSE LEAF LETTUCE FOR SALE UNDER SEAL OF QUALITY**

**R 285.542.1**  
Source: 2012 AACS.

**R 285.542.2**  
Source: 2012 AACS.

**R 285.542.3**  
Source: 2012 AACS.

**R 285.542.4**  
Source: 2012 AACS.

**R 285.542.5**  
Source: 2012 AACS.

**R 285.542.6**  
Source: 2012 AACS.

**R 285.542.7**  
Source: 2012 AACS.

**R 285.542.8**  
Source: 2012 AACS.

**R 285.542.9**  
Source: 2012 AACS.

**R 285.542.10**  
Source: 2012 AACS.

**R 285.542.11**  
Source: 2012 AACS.

**REGULATION NO. 543. GREENHOUSE TOMATOES FOR SALE UNDER SEAL OF QUALITY**

**R 285.543.1**  
Source: 2012 AACS.

**R 285.543.2**  
Source: 2012 AACS.

**R 285.543.3**  
Source: 2012 AACS.

**R 285.543.4**  
Source: 2012 AACS.

**R 285.543.5**

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Source: 2012 AACS.

**R 285.543.6**

Source: 2012 AACS.

**R 285.543.7**

Source: 2012 AACS.

**R 285.543.8**

Source: 2012 AACS.

**R 285.543.9**

Source: 2012 AACS.

**R 285.543.10**

Source: 2012 AACS.

**REGULATION NO. 544. SWEET CHERRIES FOR SALE UNDER SEAL OF QUALITY**

**R 285.544.1**

Source: 2012 AACS.

**R 285.544.2**

Source: 2012 AACS.

**R 285.544.3**

Source: 2012 AACS.

**R 285.544.4**

Source: 2012 AACS.

**R 285.544.5**

Source: 2012 AACS.

**R 285.544.6**

Source: 2012 AACS.

**R 285.544.7**

Source: 2012 AACS.

**R 285.544.8**

Source: 2012 AACS.

**REGULATION NO. 545. MUSHROOMS FOR SALE UNDER SEAL OF QUALITY**

**R 285.545.1**

Source: 2012 AACS.

**R 285.545.2**

Source: 2012 AACS.

**R 285.545.3**

Source: 2012 AACS.

**R 285.545.4**

Source: 2012 AACS.

**R 285.545.5**

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**Source:** 2012 AACS.

**R 285.545.6**

**Source:** 2012 AACS.

**R 285.545.7**

**Source:** 2012 AACS.

**R 285.545.8**

**Source:** 2012 AACS.

**R 285.545.9**

**Source:** 2012 AACS.

**R 285.545.10**

**Source:** 2012 AACS.

**R 285.545.11**

**Source:** 2012 AACS.

**R 285.545.12**

**Source:** 2012 AACS.

**R 285.545.13**

**Source:** 2012 AACS.

**R 285.545.14**

**Source:** 2012 AACS.

**R 285.545.15**

**Source:** 2012 AACS.

**R 285.545.16**

**Source:** 2012 AACS.

**R 285.545.17**

**Source:** 2012 AACS.

**REGULATION NO. 546. APPLES FOR SALE UNDER SEAL OF QUALITY**

**R 285.546.1**

**Source:** 2012 AACS.

**R 285.546.2**

**Source:** 2012 AACS.

**R 285.546.3**

**Source:** 2012 AACS.

**R 285.546.4**

**Source:** 2012 AACS.

**R 285.546.5**

**Source:** 2012 AACS.

**R 285.546.6**

**Source:** 2012 AACS.

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**R 285.546.7**  
Source: 2012 AACS.

**R 285.546.8**  
Source: 2012 AACS.

**R 285.546.9**  
Source: 2012 AACS.

**R 285.546.10**  
Source: 2012 AACS.

**R 285.546.11**  
Source: 2012 AACS.

**R 285.546.12**  
Source: 2012 AACS.

**R 285.546.13**  
Source: 2012 AACS.

**R 285.546.14**  
Source: 2012 AACS.

**R 285.546.15**  
Source: 2012 AACS.

**REGULATION NO. 549. NONALCOHOLIC BEVERAGES**

**R 285.549.1**  
Source: 2002 AACS.

**R 285.549.2**  
Source: 2002 AACS.

**R 285.549.3**  
Source: 2002 AACS.

**R 285.549.5**  
Source: 2002 AACS.

**R 285.549.7**  
Source: 2002 AACS.

**R 285.549.9**  
Source: 2002 AACS.

**R 285.549.10**  
Source: 2002 AACS.

**R 285.549.11**  
Source: 2002 AACS.

**R 285.549.12**  
Source: 2002 AACS.

**R 285.549.13**  
Source: 2002 AACS.

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**R 285.549.14**  
Source: 2002 AACS.

**R 285.549.15**  
Source: 2002 AACS.

**R 285.549.16**  
Source: 2002 AACS.

**R 285.549.17**  
Source: 2002 AACS.

**R 285.549.18**  
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**R 285.549.19**  
Source: 2002 AACS.

**R 285.549.21**  
Source: 2002 AACS.

**R 285.549.22**  
Source: 2002 AACS.

**R 285.549.24**  
Source: 2002 AACS.

**R 285.549.25**  
Source: 2002 AACS.

**R 285.549.29**  
Source: 2002 AACS.

**REGULATION NO. 551. WEIGHTS, MEASURES, PACKAGING, AND LABELING**

**R 285.551.1**  
Source: 2003 AACS.

**R 285.551.4**  
Source: 2003 AACS.

**R 285.551.6**  
Source: 2003 AACS.

**R 285.551.9**  
Source: 2003 AACS.

**R 285.551.11**  
Source: 2003 AACS.

**R 285.551.13**  
Source: 2003 AACS.

**R 285.551.15**  
Source: 2003 AACS.

**R 285.551.16**  
Source: 2003 AACS.

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**R 285.551.17**  
Source: 2003 AACS.

**R 285.551.18**  
Source: 2003 AACS.

**R 285.551.19**  
Source: 2003 AACS.

**R 285.551.20**  
Source: 2003 AACS.

**R 285.551.21**  
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**R 285.551.22**  
Source: 2003 AACS.

**R 285.551.23**  
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**R 285.551.24**  
Source: 2003 AACS.

**R 285.551.25**  
Source: 2003 AACS.

**R 285.551.26**  
Source: 2003 AACS.

**R 285.551.27**  
Source: 2003 AACS.

**R 285.551.28**  
Source: 2003 AACS.

**R 285.551.29**  
Source: 2003 AACS.

**R 285.551.30**  
Source: 2003 AACS.

**R 285.551.41**  
Source: 2003 AACS.

**R 285.551.42**  
Source: 2003 AACS.

**R 285.551.43**  
Source: 2003 AACS.

**R 285.551.44**  
Source: 2003 AACS.

**R 285.551.51**  
Source: 2003 AACS.

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**R 285.551.52**  
Source: 2003 AACCS.

**R 285.551.53**  
Source: 2003 AACCS.

**R 285.551.54**  
Source: 2003 AACCS.

**R 285.551.56**  
Source: 2003 AACCS.

**R 285.551.58**  
Source: 2003 AACCS.

**R 285.551.61**  
Source: 2003 AACCS.

**R 285.551.62**  
Source: 2003 AACCS.

**R 285.551.63**  
Source: 2003 AACCS.

**R 285.551.64**  
Source: 2003 AACCS.

**R 285.551.65**  
Source: 2003 AACCS.

**R 285.551.66**  
Source: 2003 AACCS.

**R 285.551.67**  
Source: 2003 AACCS.

**R 285.551.68**  
Source: 2003 AACCS.

**R 285.551.69**  
Source: 2003 AACCS.

**R 285.551.70**  
Source: 2003 AACCS.

**R 285.551.71**  
Source: 2003 AACCS.

**R 285.551.72**  
Source: 2003 AACCS.

**R 285.551.73**  
Source: 2003 AACCS.

**R 285.551.74**  
Source: 2003 AACCS.

**R 285.551.75**

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Source: 2003 AACS.

**R 285.551.76**

Source: 2003 AACS.

**R 285.551.77**

Source: 2003 AACS.

**R 285.551.78**

Source: 2003 AACS.

**R 285.551.79**

Source: 2003 AACS.

**R 285.551.81**

Source: 2003 AACS.

**R 285.551.83**

Source: 2003 AACS.

**REGULATION NO. 554. LAST DAY OF SALE**

**R 285.554.1**

Source: 2012 AACS.

**R 285.554.2**

Source: 2012 AACS.

**R 285.554.3**

Source: 2012 AACS.

**R 285.554.4**

Source: 2012 AACS.

**R 285.554.5**

Source: 2012 AACS.

**LABORATORY DIVISION**

**REGULATION NO. 555. ITEM PRICING**

**R 285.555.1**

Source: 2011 AACS.

**R 285.555.2**

Source: 2011 AACS.

**FOOD AND DAIRY DIVISION**

**REGULATION NO. 556. FOOD CONCESSIONS AT STATE AND COUNTY FAIRS**

**R 285.556.1**

Source: 2001 AACS.

**R 285.556.2**

Source: 2001 AACS.

**R 285.556.3**

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**Source:** 2001 AACS.

**R 285.556.4**

**Source:** 2001 AACS.

**R 285.556.5**

**Source:** 2001 AACS.

**R 285.556.6**

**Source:** 2001 AACS.

**R 285.556.7**

**Source:** 2001 AACS.

**R 285.556.8**

**Source:** 2001 AACS.

**R 285.556.9**

**Source:** 2001 AACS.

**R 285.556.10**

**Source:** 2001 AACS.

**R 285.556.11**

**Source:** 2001 AACS.

**R 285.556.12**

**Source:** 2001 AACS.

**R 285.556.13**

**Source:** 2001 AACS.

**R 285.556.14**

**Source:** 2001 AACS.

**R 285.556.15**

**Source:** 2001 AACS.

**R 285.556.16**

**Source:** 2001 AACS.

**R 285.556.17**

**Source:** 2001 AACS.

**R 285.556.18**

**Source:** 2001 AACS.

**R 285.556.19**

**Source:** 2001 AACS.

**R 285.556.20**

**Source:** 2001 AACS.

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**R 285.557.1**  
Source: 2001 AACS.

**R 285.557.3**  
Source: 2001 AACS.

**R 285.557.4**  
Source: 2001 AACS.

**R 285.557.5**  
Source: 2001 AACS.

**R 285.557.6**  
Source: 2001 AACS.

**R 285.557.7**  
Source: 2001 AACS.

**R 285.557.8**  
Source: 2001 AACS.

**R 285.557.9**  
Source: 2001 AACS.

**R 285.557.10**  
Source: 2001 AACS.

**FOOD DIVISION**

**REGULATION NO. 558. TEMPORARY FOOD ESTABLISHMENTS**

**R 285.558.1**  
Source: 2001 AACS.

**R 285.558.2**  
Source: 2001 AACS.

**R 285.558.3**  
Source: 2001 AACS.

**R 285.558.4**  
Source: 2001 AACS.

**R 285.558.5**  
Source: 2001 AACS.

**REGULATION NO. 559. LIQUID MEASURING DEVICES**

**R 285.559.1**  
Source: 2012 AACS.

**R 285.559.2**  
Source: 2012 AACS.

**R 285.559.3**  
Source: 2012 AACS.

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**R 285.559.4**  
Source: 2012 AACS.

**R 285.559.5**  
Source: 2012 AACS.

**R 285.559.6**  
Source: 2012 AACS.

**REGULATION NO. 560. GRAIN DEALERS**

**R 285.560.1**  
Source: 2012 AACS.

**R 285.560.2**  
Source: 2012 AACS.

**R 285.560.3**  
Source: 2012 AACS.

**R 285.560.4**  
Source: 2012 AACS.

**R 285.560.5**  
Source: 2012 AACS.

**R 285.560.6**  
Source: 2012 AACS.

**R 285.560.7**  
Source: 2012 AACS.

**R 285.560.8**  
Source: 2012 AACS.

**R 285.560.9**  
Source: 2012 AACS.

**R 285.560.10**  
Source: 2012 AACS.

**R 285.560.11**  
Source: 2012 AACS.

**REGULATION NO. 561. DISPENSING FACILITY REID VAPOR PRESSURE**

**R 285.561.1**  
Source: 2009 AACS.

**R 285.561.2**  
Source: 2009 AACS.

**R 285.561.3**  
Source: 2009 AACS.

**R 285.561.4**  
Source: 2009 AACS.

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**R 285.561.5**  
Source: 2009 AACS.

**R 285.561.6**  
Source: 2009 AACS.

**R 285.561.7**  
Source: 2009 AACS.

**R 285.561.8**  
Source: 2009 AACS.

**R 285.561.9**  
Source: 2009 AACS.

**R 285.561.10**  
Source: 2009 AACS.

**REGULATION NO. 562. LABELING OF RETAIL GASOLINE DISPENSERS**

**R 285.562.1**  
Source: 2009 AACS.

**R 285.562.2**  
Source: 2009 AACS.

**R 285.562.3**  
Source: 2009 AACS.

**R 285.562.4**  
Source: 2009 AACS.

**R 285.562.5**  
Source: 2009 AACS.

**R 285.562.6**  
Source: 2009 AACS.

**R 285.562.7**  
Source: 2009 AACS.

**R 285.562.8**  
Source: 2009 AACS.

**R 285.562.9**  
Source: 2009 AACS.

**R 285.562.10**  
Source: 2009 AACS.

**R 285.562.11**  
Source: 2009 AACS.

**REGULATION NO. 563. RETAIL GASOLINE DEALER LICENSING**

**R 285.563.1**

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**Source:** 1985 AACS.

**R 285.563.2**

**Source:** 1985 AACS.

**R 285.563.3**

**Source:** 1985 AACS.

**R 285.563.4**

**Source:** 1985 AACS.

**R 285.563.5**

**Source:** 1985 AACS.

**R 285.563.6**

**Source:** 1985 AACS.

**R 285.563.7**

**Source:** 1985 AACS.

**REGULATION NO. 564. AUTOMOTIVE GASOLINE PURITY,  
ADDITIVES, AND GRADING**

**R 285.564.1**

**Source:** 2009 AACS.

**R 285.564.2**

**Source:** 2009 AACS.

**R 285.564.3**

**Source:** 2009 AACS.

**R 285.564.4**

**Source:** 2009 AACS.

**R 285.564.5**

**Source:** 2009 AACS.

**R 285.564.6**

**Source:** 2009 AACS.

**R 285.564.7**

**Source:** 2009 AACS.

**R 285.564.8**

**Source:** 2009 AACS.

**R 285.564.10**

**Source:** 2009 AACS.

**R 285.564.11**

**Source:** 2009 AACS.

**R 285.564.12**

**Source:** 2009 AACS.

**R 285.564.13**

**Source:** 2009 AACS.

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**R 285.564.14**  
Source: 2009 AACS.

**REGULATION NO. 565. SULFITE-TREATED FOOD LABELING AND PLACARDING**

**R 285.565.1**  
Source: 2012 AACS.

**R 285.565.2**  
Source: 2012 AACS.

**R 285.565.3**  
Source: 2012 AACS.

**R 285.565.4**  
Source: 2012 AACS.

**R 285.565.5**  
Source: 2012 AACS.

**R 285.565.6**  
Source: 2012 AACS.

**R 285.565.7**  
Source: 2012 AACS.

**NO. 569. SMOKED FISH**

**R 285.569.1**  
Source: 1997 AACS.

**R 285.569.2**  
Source: 1997 AACS.

**R 285.569.3**  
Source: 1997 AACS.

**R 285.569.4**  
Source: 1997 AACS.

**R 285.569.5**  
Source: 1997 AACS.

**R 285.569.6**  
Source: 1997 AACS.

**R 285.569.7**  
Source: 1997 AACS.

**R 285.569.8**  
Source: 1997 AACS.

**R 285.569.9**  
Source: 1997 AACS.

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**R 285.569.10**  
Source: 1997 AACS.

**R 285.569.11**  
Source: 1997 AACS.

**R 285.569.12**  
Source: 1997 AACS.

**R 285.569.13**  
Source: 1997 AACS.

**R 285.569.14**  
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**R 285.569.15**  
Source: 1997 AACS.

**R 285.569.16**  
Source: 1997 AACS.

**R 285.569.17**  
Source: 1997 AACS.

**R 285.569.18**  
Source: 1997 AACS.

**R 285.569.19**  
Source: 1997 AACS.

**Food And Dairy Division**

**Reg No. 570, Food Establishment Manager Certification**

**R 289.570.1**  
Source: 2009 AACS.

**R 289.570.2**  
Source: 2009 AACS.

**R 289.570.3**  
Source: 2009 AACS.

**R 289.570.4**  
Source: 2009 AACS.

**R 289.570.5**  
Source: 2009 AACS.

**R 289.570.6**  
Source: 2009 AACS.

**REGULATION NO. 600. CHERRY PESTS**

**R 285.600.1**  
Source: 1979 AC.

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**REGULATION NO. 601. RASPBERRY INSPECTION AND CERTIFICATION**

**R 285.601.1**  
Source: 1979 AC.

**REGULATION NO. 605. DISPOSAL OF CHRISTMAS TREES**

**R 285.605.1**  
Source: 2001 AACS.

**PLANT INDUSTRY DIVISION**

**REGULATION NO. 606. BLUEBERRY REGULATION**

**R 285.606.1**  
Source: 1984 AACS.

**REGULATION NO. 607. TOMATO SEED CERTIFICATION**

**R 285.607.1**  
Source: 2012 AACS.

**REGULATION NO. 609. STRAWBERRY PLANTS**

**R 285.609.1**  
Source: 1979 AC.

**REGULATION NO. 610. INSPECTION FEES**

**R 285.610.1**  
Source: 1980 AACS.

**R 285.610.2**  
Source: 1980 AACS.

**R 285.610.3**  
Source: 1980 AACS.

**REGULATION NO. 611. GLADIOLUS INSPECTION AND CERTIFICATION**

**R 285.611.1**  
Source: 2012 AACS.

**R 285.611.2**  
Source: 2012 AACS.

**R 285.611.3**  
Source: 2012 AACS.

**R 285.611.4**  
Source: 2012 AACS.

**R 285.611.5**  
Source: 2012 AACS.

**R 285.611.6**  
Source: 2012 AACS.

**R 285.611.7**

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Source: 2012 AACS.

**R 285.611.8**

Source: 2012 AACS.

**REGULATION NO. 612. YELLOW RED VIROSIS**

**R 285.612.1**

Source: 1979 AC.

**REGULATION NO. 613. DUTCH ELM DISEASE**

**R 285.613.1**

Source: 2012 AACS.

**R 285.613.2**

Source: 2012 AACS.

**R 285.613.3**

Source: 2012 AACS.

**R 285.613.4**

Source: 2012 AACS.

**REGULATION NO. 615. ALFALFA WEEVIL**

**R 285.615.1**

Source: 1997 AACS.

**REGULATION NO. 617. BLACK STEM RUST**

**R 285.617.1**

Source: 1979 AC.

**REGULATION NO. 618. DAHLIAS**

**R 285.618.1**

Source: 2012 AACS.

**REGULATION NO. 619. FRUIT TREE SCIONWOOD, UNDERSTOCK,  
AND NURSERY STOCK**

**R 285.619.1**

Source: 1984 AACS.

**R 285.619.2**

Source: 1984 AACS.

**R 285.619.3**

Source: 1984 AACS.

**R 285.619.4**

Source: 1984 AACS.

**R 285.619.11**

Source: 1979 AC.

**R 285.619.21**

Source: 1979 AC.

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**R 285.619.22**  
Source: 1979 AC.

**R 285.619.31**  
Source: 1984 AACS.

**REGULATION NO. 620. QUARANTINE**

**R 285.620.1**  
Source: 1979 AC.

**REGULATION NO. 623. FIELD SEED CERTIFICATION**

**PART 1. GENERAL PROVISIONS**

**R 285.623.1**  
Source: 1997 AACS.

**R 285.623.2**  
Source: 1997 AACS.

**R 285.623.3**  
Source: 1997 AACS.

**R 285.623.4**  
Source: 1997 AACS.

**R 285.623.5**  
Source: 1997 AACS.

**R 285.623.6**  
Source: 1997 AACS.

**R 285.623.7**  
Source: 1997 AACS.

**R 285.623.8**  
Source: 1997 AACS.

**R 285.623.11**  
Source: 1997 AACS.

**R 285.623.12**  
Source: 1997 AACS.

**R 285.623.15**  
Source: 1997 AACS.

**PART 2. INDIVIDUAL CROP STANDARDS**

**R 285.623.21**  
Source: 1997 AACS.

**R 285.623.21a**  
Source: 1997 AACS.

**R 285.623.22**  
Source: 1997 AACS.

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**R 285.623.23**  
Source: 1997 AACS.

**R 285.623.24**  
Source: 1997 AACS.

**R 285.623.25**  
Source: 1997 AACS.

**R 285.623.26**  
Source: 1997 AACS.

**R 285.623.27**  
Source: 1997 AACS.

**R 285.623.28**  
Source: 1997 AACS.

**R 285.623.29**  
Source: 1997 AACS.

**PESTICIDE AND PLANT PEST MANAGEMENT DIVISION**  
**REGULATION NO. 623. FIELD CROP AND TURFGRASS SEED CERTIFICATION**

**PART 1. GENERAL PROVISIONS**

**R 285.623.101**  
Source: 1994 AACS.

**R 285.623.102**  
Source: 1994 AACS.

**R 285.623.103**  
Source: 1994 AACS.

**R 285.623.104**  
Source: 1994 AACS.

**R 285.623.105**  
Source: 1994 AACS.

**R 285.623.106**  
Source: 1994 AACS.

**R 285.623.107**  
Source: 1994 AACS.

**R 285.623.108**  
Source: 1994 AACS.

**R 285.623.109**  
Source: 1994 AACS.

**R 285.623.110**  
Source: 1994 AACS.

**R 285.623.111**

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**Source:** 1994 AACS.

**R 285.623.199**

**Source:** 1994 AACS.

**PART 2. FIELD CROP STANDARDS**

**R 285.623.201**

**Source:** 1994 AACS.

**R 285.623.202**

**Source:** 1994 AACS.

**R 285.623.203**

**Source:** 1994 AACS.

**R 285.623.204**

**Source:** 1994 AACS.

**R 285.623.205**

**Source:** 1994 AACS.

**R 285.623.206**

**Source:** 1994 AACS.

**R 285.623.207**

**Source:** 1994 AACS.

**R 285.623.208**

**Source:** 1994 AACS.

**R 285.623.209**

**Source:** 1994 AACS.

**R 285.623.210**

**Source:** 1994 AACS.

**R 285.623.211**

**Source:** 1994 AACS.

**R 285.623.212**

**Source:** 1994 AACS.

**R 285.623.213**

**Source:** 1994 AACS.

**R 285.623.214**

**Source:** 1994 AACS.

**R 285.623.215**

**Source:** 1994 AACS.

**R 285.623.216**

**Source:** 1997 AACS.

**PART 3. TURFGRASS SEED STANDARDS**

**R 285.623.301**

**Source:** 1994 AACS.

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**R 285.623.302**  
Source: 1994 AACS.

**R 285.623.303**  
Source: 1994 AACS.

**R 285.623.304**  
Source: 1994 AACS.

**R 285.623.305**  
Source: 1994 AACS.

**R 285.623.306**  
Source: 1994 AACS.

**R 285.623.307**  
Source: 1994 AACS.

**PART 4. SOD QUALITY SEED STANDARDS**

**R 285.623.401**  
Source: 1994 AACS.

**R 285.623.402**  
Source: 1994 AACS.

**R 285.623.403**  
Source: 1994 AACS.

**R 285.623.404**  
Source: 1994 AACS.

**REGULATION NO. 627. CARE OF NURSERY STOCK IN SALES OUTLETS**

**R 285.627.1**  
Source: 1979 AC.

**R 285.627.2**  
Source: 1979 AC.

**R 285.627.3**  
Source: 1979 AC.

**REGULATION NO. 628. SEED POTATO CERTIFICATION**

**R 285.628.1**  
Source: 1994 AACS.

**R 285.628.3**  
Source: 1994 AACS.

**R 285.628.4**  
Source: 1994 AACS.

**R 285.628.4a**  
Source: 1994 AACS.

**R 285.628.5**

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**Source:** 2011 AACS.

**R 285.628.5a**

**Source:** 1994 AACS.

**R 285.628.6**

**Source:** 1994 AACS.

**R 285.628.7**

**Source:** 1997 AACS.

**R 285.628.8**

**Source:** 1994 AACS.

**R 285.628.9**

**Source:** 2011 AACS.

**R 285.628.10**

**Source:** 1979 AC.

**R 285.628.11**

**Source:** 1994 AACS.

**R 285.628.12**

**Source:** 1997 AACS.

**R 285.628.13**

**Source:** 1979 AC.

**R 285.628.14**

**Source:** 1997 AACS.

**R 285.628.15**

**Source:** 1997 AACS.

**R 285.628.16**

**Source:** 1997 AACS.

**R 285.628.17**

**Source:** 1997 AACS.

**R 285.628.18**

**Source:** 1997 AACS.

**R 285.628.19**

**Source:** 1997 AACS.

**R 285.628.20**

**Source:** 1997 AACS.

**R 285.628.21**

**Source:** 1997 AACS.

**R 285.628.22**

**Source:** 1997 AACS.

**R 285.628.23**

**Source:** 1997 AACS.

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**R 285.628.24**  
Source: 1997 AACS.

**R 285.628.25**  
Source: 1997 AACS.

**R 285.628.26**  
Source: 1997 AACS.

**R 285.628.27**  
Source: 1997 AACS.

**REGULATION NO. 633. RESTRICTED USE PESTICIDES**

**R 285.633.1**  
Source: 1979 AC.

**R 285.633.2**  
Source: 1985 AACS.

**R 285.633.3**  
Source: 1979 AC.

**R 285.633.4**  
Source: 1979 AC.

**R 285.633.5**  
Source: 1979 AC.

**R 285.633.6**  
Source: 1979 AC.

**R 285.633.7**  
Source: 1979 AC.

**REGULATION NO. 634. COMMERCIAL FERTILIZERS**

**R 285.634.1**  
Source: 1979 AC.

**R 285.634.2**  
Source: 1979 AC.

**R 285.634.3**  
Source: 1979 AC.

**R 285.634.4**  
Source: 1979 AC.

**R 285.634.5**  
Source: 1979 AC.

**R 285.634.6**  
Source: 1979 AC.

**R 285.634.7**  
Source: 1979 AC.

**R 285.634.8**

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Source: 1979 AC.

**REGULATION NO. 635. COMMERCIAL FEED**

**R 285.635.1**

Source: 1979 AC.

**R 285.635.2**

Source: 1979 AC.

**R 285.635.3**

Source: 1979 AC.

**R 285.635.4**

Source: 1979 AC.

**R 285.635.5**

Source: 1979 AC.

**R 285.635.8**

Source: 1979 AC.

**R 285.635.10**

Source: 1979 AC.

**R 285.635.11**

Source: 1979 AC.

**R 285.635.12**

Source: 1979 AC.

**R 285.635.13**

Source: 1979 AC.

**R 285.635.14**

Source: 1979 AC.

**R 285.635.15 Rescinded.**

History: 1979 AC; rescinded 2015 MR 13, repeal Eff. June 16, 2015.

**R 285.635.16 Rescinded.**

History: 1979 AC; rescinded 2015 MR 13, repeal Eff. June 16, 2015.

**R 285.635.17 Rescinded.**

History: 1979 AC; rescinded 2015 MR 13, repeal Eff. June 16, 2015.

**REGULATION NO. 636. PESTICIDE APPLICATORS**

**R 285.636.1**

Source: 2002 AACS.

**R 285.636.2**

Source: 2002 AACS.

**R 285.636.3**

Source: 2002 AACS.

**R 285.636.4**

Source: 2002 AACS.

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**R 285.636.5**  
Source: 2002 AACS.

**R 285.636.6**  
Source: 1991 AACS.

**R 285.636.7**  
Source: 2002 AACS.

**R 285.636.8**  
Source: 2002 AACS.

**R 285.636.9**  
Source: 1991 AACS.

**R 285.636.10**  
Source: 2002 AACS.

**R 285.636.11**  
Source: 1991 AACS.

**R 285.636.12**  
Source: 2002 AACS.

**R 285.636.13**  
Source: 1991 AACS.

**R 285.636.14**  
Source: 1991 AACS.

**R 285.636.15**  
Source: 2002 AACS.

**R 285.636.16**  
Source: 1991 AACS.

**R 285.636.17**  
Source: 1991 AACS.

**REGULATION NO. 637. PESTICIDE USE**

**R 285.637.1**  
Source: 2008 AACS.

**R 285.637.2**  
Source: 2008 AACS.

**R 285.637.3**  
Source: 2008 AACS.

**R 285.637.4**  
Source: 2008 AACS.

**R 285.637.5**  
Source: 2008 AACS.

**R 285.637.6**  
Source: 2008 AACS.

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**R 285.637.7**  
Source: 2008 AACS.

**R 285.637.8**  
Source: 2008 AACS.

**R 285.637.9**  
Source: 2008 AACS.

**R 285.637.10**  
Source: 2008 AACS.

**R 285.637.11**  
Source: 2008 AACS.

**R 285.637.12**  
Source: 2008 AACS.

**R 285.637.13**  
Source: 2008 AACS.

**R 285.637.14**  
Source: 2008 AACS.

**R 285.637.15**  
Source: 2008 AACS.

**R 285.637.16**  
Source: 1992 AACS.

**R 285.637.17**  
Source: 2008 AACS.

**REGULATION NO. 640. COMMERCIAL PESTICIDE BULK STORAGE**

**R 285.640.1**  
Source: 1992 AACS.

**R 285.640.2**  
Source: 1992 AACS.

**R 285.640.3**  
Source: 1992 AACS.

**R 285.640.4**  
Source: 1992 AACS.

**R 285.640.5**  
Source: 1992 AACS.

**R 285.640.6**  
Source: 1992 AACS.

**R 285.640.7**  
Source: 1992 AACS.

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**R 285.640.8**  
Source: 1992 AACS.

**R 285.640.9**  
Source: 1992 AACS.

**R 285.640.10**  
Source: 1992 AACS.

**R 285.640.11**  
Source: 1992 AACS.

**R 285.640.12**  
Source: 1992 AACS.

**R 285.640.13**  
Source: 1992 AACS.

**R 285.640.14**  
Source: 1992 AACS.

**R 285.640.15**  
Source: 1992 AACS.

**R 285.640.16**  
Source: 1992 AACS.

**R 285.640.17**  
Source: 1992 AACS.

**R 285.640.18**  
Source: 1992 AACS.

**R 285.640.19**  
Source: 1992 AACS.

**REGULATION NO. 641. COMMERCIAL FERTILIZER BULK STORAGE**

**R 285.641.1**  
Source: 2006 AACS.

**R 285.641.2**  
Source: 1998-2000 AACS.

**R 285.641.3**  
Source: 1998-2000 AACS.

**R 285.641.4**  
Source: 1998-2000 AACS.

**R 285.641.5**  
Source: 1998-2000 AACS.

**R 285.641.6**  
Source: 1998-2000 AACS.

**R 285.641.7**  
Source: 1998-2000 AACS.

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**R 285.641.8**  
Source: 1998-2000 AACS.

**R 285.641.9**  
Source: 1998-2000 AACS.

**R 285.641.9a**  
Source: 2006 AACS.

**R 285.641.10**  
Source: 1998-2000 AACS.

**R 285.641.11**  
Source: 1998-2000 AACS.

**R 285.641.12**  
Source: 1998-2000 AACS.

**R 285.641.13**  
Source: 1998-2000 AACS.

**R 285.641.14**  
Source: 1998-2000 AACS.

**R 285.641.15**  
Source: 1998-2000 AACS.

**R 285.641.16**  
Source: 1998-2000 AACS.

**R 285.641.17**  
Source: 1998-2000 AACS.

**R 285.641.18**  
Source: 1998-2000 AACS.

**REGULATION NO. 642. ON FARM FERTILIZER BULK STORAGE**

**R 285.642.1**  
Source: 2003 AACS.

**R 285.642.2**  
Source: 2003 AACS.

**R 285.642.3**  
Source: 2003 AACS.

**R 285.642.4**  
Source: 2003 AACS.

**R 285.642.5**  
Source: 2003 AACS.

**R 285.642.6**  
Source: 2003 AACS.

**R 285.642.7**  
Source: 2003 AACS.

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**R 285.642.8**  
Source: 2003 AACS.

**R 285.642.9**  
Source: 2003 AACS.

**R 285.642.10**  
Source: 2003 AACS.

**R 285.642.11**  
Source: 2003 AACS.

**R 285.642.12**  
Source: 2003 AACS.

**R 285.642.13**  
Source: 2003 AACS.

**LABORATORY DIVISION**  
**REGULATION NO. 714. SEED LAW IMPLEMENTATION**

**R 285.714.1**  
Source: 1997 AACS.

**R 285.714.2**  
Source: 1997 AACS.

**R 285.714.3**  
Source: 1997 AACS.

**R 285.714.4**  
Source: 1997 AACS.

**R 285.714.5**  
Source: 1997 AACS.

**R 285.714.6**  
Source: 1997 AACS.

**R 285.714.7**  
Source: 1997 AACS.

**R 285.714.8**  
Source: 1997 AACS.

**R 285.714.9**  
Source: 1997 AACS.

**R 285.714.10**  
Source: 1997 AACS.

**R 285.714.11**  
Source: 1997 AACS.

**R 285.714.12**  
Source: 1997 AACS.

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**R 285.714.13**  
Source: 1997 AACS.

**R 285.714.14**  
Source: 1997 AACS.

**R 285.714.15**  
Source: 1997 AACS.

**R 285.714.16**  
Source: 1997 AACS.

**R 285.714.17**  
Source: 1997 AACS.

**R 285.714.18**  
Source: 1997 AACS.

**R 285.714.19**  
Source: 1997 AACS.

**R 285.714.20**  
Source: 1997 AACS.

**R 285.714.21**  
Source: 1997 AACS.

**PESTICIDE AND PLANT PEST MANAGEMENT DIVISION**  
**REGULATION NO. 715. SEED LAW IMPLEMENTATION**

**R 285.715.1**  
Source: 1990 AACS.

**R 285.715.2**  
Source: 1990 AACS.

**R 285.715.3**  
Source: 1990 AACS.

**R 285.715.4**  
Source: 1990 AACS.

**R 285.715.5**  
Source: 1990 AACS.

**R 285.715.6**  
Source: 1990 AACS.

**R 285.715.7 Prohibited and restricted noxious weeds.**  
Rule 7. (1) All of the following are prohibited noxious weeds:  
(a) Field bindweed, *Convolvulus arvensis*.  
(b) Hedge bindweed, *Convolvulus sepium*.  
(c) Canada thistle, *Cirsium arvense*.  
(d) Morning glory, *Ipomoea* species.  
(e) Puncturevine, *Tribulus terrestris*.  
(f) Plumeless thistle, *Carduus acanthoides*.  
(g) Musk thistle, *Carduus nutans*.

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- (h) Bull thistle, *Cirsium vulgare*.
- (i) Perennial sowthistle, *Sonchus arvensis*.
- (j) Whitetop = hoary cress = perennial peppergrass, *Cardaria draba*.
- (k) Russian knapweed, *Centaurea picris*.
- (l) Spotted knapweed, *Centaurea maculosa*.
- (m) Leafy spurge, *Euphorbia esula*.
- (n) Quackgrass, *Agropyron repens* = *Elytrigia repens*.
- (o) Johnsongrass, *Sorghum halapense*, including sorghum alnum and seed which cannot be readily distinguished from Johnsongrass.
- (p) Dodder, *Cuscuta* species.
- (q) Horsenettle, *Solanum carolinense*.
- (r) Yellow nutsedge, *Cyperus esculentus*, both seed and tubers.
- (s) Serrated tussock, *Nasella trichotoma*.
- (2) All of the following are restricted noxious weeds:
  - (a) Black mustard, *Brassica nigra*.
  - (b) Charlock, *Sinapis arvensis*.
  - (e) Indian mustard, *Brassica juncea*.
  - (d) Wild radish, *Raphanus raphanistrum*.
  - (e) Hoary alyssum, *Berteroa incana*.
  - (f) Buckhorn plantain, *Plantago lanceolata*.
  - (g) Wild carrot, *Daucus carota*.
  - (h) Wild onion, *Allium canadense*.
  - (i) Wild garlic, *Allium vineale*.
  - (j) Giant foxtail, *Setaria faberii*.
  - (k) Yellow rocket, *Barbarea vulgaris*.
  - (l) Curled dock, *Rumex crispus*.
  - (m) Velvetleaf, *Abutilon theophrasti*.
  - (n) Wild oat, *Avena fatua*.
  - (o) Jimsonweed, *Datura stramonium*.
  - (p) Cocklebur, *Xanthium strumarium*.
  - (q) Nightshade complex, including all of the following  
Solanum species and any other species with indistinguishable seed:
    - (i) Bitter nightshade, *Solanum dulcamara*.
    - (ii) Black nightshade, *Solanum nigrum*.
    - (iii) Eastern black nightshade, *Solanum ptycanthum*.
    - (iv) Silverleaf nightshade = purple nightshade, *Solanum eleagnifolium*.
    - (v) Hairy nightshade, *Solanum sarrachoides*.
- (3) The limit for restricted noxious weed seed is 1 seed of any or all of the restricted noxious weed seeds to 2,000 seeds of the seed sold, offered, exposed, or transported for sale, except that for buckhorn and yellow rocket, the limit is 1 seed to 1,000 seeds of the seed sold, offered, exposed, or transported for sale. If present in a lesser ratio, the restricted noxious weeds shall be named on the tag with the number per pound also shown on the tag, except that buckhorn and yellow rocket need not be shown on the tag unless they exceed 90 seeds per pound.  
History: 1990 AACS; 2015 MR 21, Eff. Nov. 13, 2015.

**R 285.715.8**

**Source:** 1990 AACS.

**R 285.715.9**

**Source:** 1990 AACS.

**R 285.715.10**

**Source:** 1990 AACS.

**R 285.715.11**

**Source:** 1990 AACS.

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**R 285.715.12**  
Source: 1990 AACS.

**R 285.715.13**  
Source: 1990 AACS.

**R 285.715.14**  
Source: 1990 AACS.

**FINANCE DIVISION**  
**REGULATION NO. 804. RACE TRACK IMPROVEMENT**

**R 285.804**  
Source: 1997 AACS.

**EXPOSITIONS AND RACING SECTION**  
**REGULATION NO. 805. MATCHING ASSISTANCE TO FAIRS**

**R 285.805.1**  
Source: 1992 AACS.

**R 285.805.2**  
Source: 1979 AC.

**R 285.805.3**  
Source: 1992 AACS.

**R 285.805.4**  
Source: 1992 AACS.

**R 285.805.5**  
Source: 1992 AACS.

**R 285.805.6**  
Source: 1992 AACS.

**R 285.805.7**  
Source: 1984 AACS.

**R 285.805.8**  
Source: 1984 AACS.

**REGULATION NO. 808. PAYMENT OF BREEDERS' AWARDS**

**R 285.808.1**  
Source: 2004 AACS.

**R 285.808.1a**  
Source: 2002 AACS.

**R 285.808.2**  
Source: 2002 AACS.

**R 285.808.2a**  
Source: 2002 AACS.

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**R 285.808.3**  
Source: 2002 AACS.

**R 285.808.4**  
Source: 2002 AACS.

**REGULATION NO. 809. THOROUGHBRED ALLOTMENTS FOR TRAINING  
AND STABLING FACILITIES**

**R 285.809.1**  
Source: 1983 AACS.

**R 285.809.2**  
Source: 1983 AACS.

**R 285.809.3**  
Source: 1983 AACS.

**R 285.809.4**  
Source: 1983 AACS.

**R 285.809.5**  
Source: 1983 AACS.

**R 285.809.6**  
Source: 1983 AACS.

**R 285.809.7**  
Source: 1983 AACS.

**REGULATION NO. 810. THOROUGHBRED BREEDERS' AWARDS  
AND STATE SUPPLEMENTS**

**R 285.810.1**  
Source: 1998-2000 AACS.

**R 285.810.2**  
Source: 1998-2000 AACS.

**R 285.810.3**  
Source: 1983 AACS.

**R 285.810.4**  
Source: 1998-2000 AACS.

**R 285.810.5**  
Source: 1983 AACS.

**R 285.810.6**  
Source: 1998-2000 AACS.

**R 285.810.7**  
Source: 1997 AACS.

**R 285.810.8**  
Source: 1979 AC.

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**R 285.810.9**  
Source: 1998-2000 AACS.

**R 285.810.10**  
Source: 1998-2000 AACS.

**REGULATION NO. 811. PREMIUM ALLOTMENTS TO FAIRS AND EXPOSITIONS**

**R 285.811.1**  
Source: 2008 AACS.

**R 285.811.1a**  
Source: 2008 AACS.

**R 285.811.2**  
Source: 2008 AACS.

**R 285.811.3**  
Source: 2008 AACS.

**R 285.811.4**  
Source: 2008 AACS.

**R285.811.5**  
Source: 2004 AACS.

**R 285.811.5a**  
Source: 2008 AACS.

**R 285.811.6**  
Source: 2008 AACS.

**R 285.811.7**  
Source: 1997 AACS.

**R 285.811.8**  
Source: 1985 AACS.

**R 285.811.9**  
Source: 2004 AACS.

**R 285.811.10**  
Source: 2004 AACS.

**REGULATION NO. 812. STATE AID FOR HARNESS HORSE RACING AT FAIRS**

**R 285.812.1**  
Source: 2004 AACS.

**R 285.812.1a**  
Source: 2004 AACS.

**R 285.812.2**  
Source: 2004 AACS.

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**R 285.812.3**

Source: 2002 AACS.

**R 285.812.4**

Source: 2004 AACS.

**R 285.812.5**

Source: 2004 AACS.

**R 285.812.5a**

Source: 1998-2000 AACS.

**R 285.812.6**

Source: 2004 AACS.

**R 285.812.6a**

Source: 1998-2000 AACS.

**R 285.812.7**

Source: 2004 AACS.

**R 285.812.7a**

Source: 2004 AACS.

**R 285.812.8**

Source: 1998-2000 AACS.

**R 285.812.9**

Source: 1998-2000 AACS.

**R 285.812.10**

Source: 1979 AC.

**REGULATION NO. 813. TESTING HORSES AND PULLING TEAMS FOR DRUGS AT STATE FUNDED  
EVENTS**

**R 285.813.1**

Source: 2006 AACS.

**R 285.813.2**

Source: 2006 AACS.

**R 285.813.3**

Source: 2006 AACS.

**R 285.813.4**

Source: 2006 AACS.

**R 285.813.5**

Source: 2006 AACS.

**REGULATION NO. 814. MICHIGAN AND FEDELE FAURI FUTURITY RACES**

**R 285.814.1**

Source: 2004 AACS.

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**R 285.814.1a**  
Source: 2004 AACS.

**R 285.814.1b**  
Source: 2004 AACS.

**R 285.814.2**  
Source: 2004 AACS.

**R 285.814.3**  
Source: 2004 AACS.

**R 285.814.4**  
Source: 2004 AACS.

**R 285.814.5**  
Source: 2002 AACS.

**R 285.814.6**  
Source: 1981 AACS.

**R 285.814.7**  
Source: 2002 AACS.

**R 285.814.8**  
Source: 1981 AACS.

**R 285.814.9**  
Source: 1979 AC.

**R 285.814.10**  
Source: 2004 AACS.

**REGULATION NO. 815. STATE AID FOR REGISTERED LIGHT HORSE RACES  
AT FAIRS**

**R 285.815.1**  
Source: 1981 AACS.

**R 285.815.1a**  
Source: 1981 AACS.

**R 285.815.2**  
Source: 1981 AACS.

**R 285.815.3**  
Source: 1981 AACS.

**R 285.815.4**  
Source: 1981 AACS.

**R 285.815.5**  
Source: 1981 AACS.

**R 285.815.6**  
Source: 1981 AACS.

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**R 285.815.7**

Source: 1979 AC.

**R 285.815.8**

Source: 1981 AACS.

**R 285.815.9**

Source: 1979 AC.

**R 285.815.10**

Source: 1979 AC.

**R 285.815.11**

Source: 1981 AACS.

**R 285.815.12**

Source: 1979 AC.

**R 285.815.13**

Source: 1979 AC.

**R 285.815.14**

Source: 1979 AC.

**R 285.815.15**

Source: 1981 AACS.

**R 285.815.16**

Source: 1981 AACS.

**REGULATION NO. 816. STABLING AND TRAINING FACILITIES FOR STANDARDBRED HARNESS HORSES**

**R 285.816.1**

Source: 2008 AACS.

**R 285.816.2**

Source: 2008 AACS.

**R 285.816.3**

Source: 2008 AACS.

**R 285.816.4**

Source: 2008 AACS.

**R 285.816.5**

Source: 2008 AACS.

**R 285.816.7**

Source: 2008 AACS.

**R 285.816.8**

Source: 2008 AACS.

**REGULATION NO. 817. QUARTER HORSE BREEDERS' AWARDS  
AND STATE SUPPLEMENTS**

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**R 285.817.1**  
Source: 2004 AACS.

**R 285.8171a**  
Source: 2004 AACS.

**R 285.817.2**  
Source: 2004 AACS.

**R 285.817.3**  
Source: 2004 AACS.

**R 285.817.4**  
Source: 2004 AACS.

**R 285.817.5**  
Source: 2004 AACS.

**R 285.817.5a**  
Source: 2004 AACS.

**R 285.817.6**  
Source: 2004 AACS.

**R 285.817.7**  
Source: 2004 AACS.

**REGULATION NO. 818. MICHIGAN SIRE STAKE RACES**

**R 285.818.1**  
Source: 2003 AACS.

**R 285.818.2**  
Source: 2003 AACS.

**R 285.818.3**  
Source: 2003 AACS.

**R 285.818.4**  
Source: 2003 AACS.

**R 285.818.5**  
Source: 2003 AACS.

**R 285.818.6**  
Source: 2003 AACS.

**R 285.818.7**  
Source: 2003 AACS.

**REGULATION NO. 819. APPALOOSA HORSE BREEDERS' AWARDS  
AND STATE SUPPLEMENTS**

**R 285.819.1**  
Source: 1982 AACS.

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**R 285.819.1a**  
Source: 1982 AACS.

**R 285.819.2**  
Source: 1982 AACS.

**R 285.819.3**  
Source: 1979 AC.

**R 285.819.4**  
Source: 1979 AC.

**R 285.819.5**  
Source: 1982 AACS.

**R 285.819.6**  
Source: 1979 AC.

**R 285.819.7**  
Source: 1997 AACS.

**REGULATION NO. 820. MICHIGAN-BRED PARI-MUTUEL RACES**

**R 285.820.1**  
Source: 2004 AACS.

**R 285.820.1a**  
Source: 2004 AACS.

**R 285.820.2**  
Source: 2004 AACS.

**R 285.820.3**  
Source: 2004 AACS.

**R 285.820.4**  
Source: 2004 AACS.

**R 285.820.5**  
Source: 2002 AACS.

**R 285.820.6**  
Source: 2004 AACS.

**REGULATION NO. 821. THOROUGHBRED SIRE STAKE RACES**

**R 285.821.1**  
Source: 1998-2000 AACS.

**R 285.821.2**  
Source: 1983 AACS.

**R 285.821.3**  
Source: 1998-2000 AACS.

**R 285.821.4**

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**Source:** 1998-2000 AACS.

**R 285.821.5**

**Source:** 1983 AACS.

**R 285.821.6**

**Source:** 1998-2000 AACS.

**R 285.821.7**

**Source:** 1983 AACS.

**R 285.821.8**

**Source:** 1998-2000 AACS.

**R 285.821.9**

**Source:** 1998-2000 AACS.

**R 285.821.10**

**Source:** 1998-2000 AACS.

**REGULATION NO. 822. ARABIAN BREEDERS' AWARDS  
AND STATE SUPPLEMENTS**

**R 285.822.1**

**Source:** 1985 AACS.

**R 285.822.2**

**Source:** 1985 AACS.

**R 285.822.3**

**Source:** 1985 AACS.

**R 285.822.4**

**Source:** 1985 AACS.

**R 285.822.5**

**Source:** 1985 AACS.

**R 285.822.6**

**Source:** 1985 AACS.

**R 285.822.7**

**Source:** 1985 AACS.

**REGULATION NO. 823. PAINT HORSE BREEDERS' AWARDS, OWNERS' AWARDS, AND STATE  
SUPPLEMENTS**

**R 285.823.1**

**Source:** 2004 AACS.

**R 285.8231a**

**Source:** 2004 AACS.

**R 285.823.2**

**Source:** 2004 AACS.

**R 285.823.3**

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Source: 2004 AACS.

**R 285.823.4**

Source: 2004 AACS.

**R 285.823.5**

Source: 2004 AACS.

**R 285.823.5a**

Source: 2004 AACS.

**R 285.823.6**

Source: 2004 AACS.

**R 285.823.7**

Source: 2004 AACS.

**REGULATION NO. 900. HEARING PROCEDURES**

**R 285.900.1 Rescinded.**

History: 1979 AC; rescinded 2015 MR 3, repealed July 1, 1970.

**DEPARTMENT OF CONSUMER AND INDUSTRY SERVICES**  
**BOARD OF LANDSCAPE ARCHITECTS**

**R 285.901.1**

Source: 1997 AACS.

**R 285.901.2**

Source: 1997 AACS.

**R 285.901.3**

Source: 1997 AACS.

**R 285.901.4**

Source: 1997 AACS.

**R 285.901.5**

Source: 1997 AACS.

**R 285.901.2**

Source: 1997 AACS.

**R 285.901.3**

Source: 1997 AACS.

**R 285.901.4**

Source: 1997 AACS.

**R 285.901.5**

Source: 1997 AACS.

**FAIRS, EXHIBITIONS, AND RACING DIVISION:**

**REGULATION 852, UPPER PENINSULA STATE FAIR**

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**R 285.1101**  
Source: 2012 AACS.

**R 285.1102**  
Source: 2012 AACS.

**R 285.1103**  
Source: 2012 AACS.

**R 285.1104**  
Source: 2012 AACS.

**R 285.1105**  
Source: 2012 AACS.

**R 285.1106**  
Source: 2012 AACS.

**R 285.1201**  
Source: 2012 AACS.

**R 285.1202**  
Source: 2012 AACS.

**R 285.1203**  
Source: 2012 AACS.

**R 285.1204**  
Source: 2012 AACS.

**R 285.1301**  
Source: 2012 AACS.

**R 285.1302**  
Source: 2012 AACS.

**R 285.1303**  
Source: 2012 AACS.

**R 285.1304**  
Source: 2012 AACS.

**R 285.1305**  
Source: 2012 AACS.

**R 285.1306**  
Source: 2012 AACS.

**R 285.1307**  
Source: 2012 AACS.

**R 285.1308**  
Source: 2012 AACS.

**R 285.1309**  
Source: 2012 AACS.

**R 285.1310**

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**Source:** 2012 AACS.

**R 285.1311**

**Source:** 2012 AACS.

**R 285.1312**

**Source:** 2012 AACS.

**R 285.1313**

**Source:** 2012 AACS.

**R 285.1314**

**Source:** 2012 AACS.

**R 285.1315**

**Source:** 2012 AACS.

**R 285.1316**

**Source:** 2012 AACS.

**R 285.1317**

**Source:** 2012 AACS.

**R 285.1318**

**Source:** 2012 AACS.

**R 285.1319**

**Source:** 2012 AACS.

**R 285.1320**

**Source:** 2012 AACS.

**R 285.1321**

**Source:** 2012 AACS.

**R 285.1322**

**Source:** 2012 AACS.

**R 285.1323**

**Source:** 2012 AACS.

**R 285.1324**

**Source:** 2012 AACS.

**R 285.1325**

**Source:** 2012 AACS.

**R 285.1326**

**Source:** 2012 AACS.

**R 285.1327**

**Source:** 2012 AACS.

**R 285.1328**

**Source:** 2012 AACS.

**R 285.1329**

**Source:** 2012 AACS.

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**R 285.1330**  
Source: 2012 AACCS.

**R 285.1331**  
Source: 2012 AACCS.

**R 285.1332**  
Source: 2012 AACCS.

**R 285.1401**  
Source: 2012 AACCS.

**R 285.1402**  
Source: 2012 AACCS.

**R 285.1403**  
Source: 2012 AACCS.

**R 285.1404**  
Source: 2012 AACCS.

**R 285.1405**  
Source: 2012 AACCS.

**R 285.1406**  
Source: 2012 AACCS.

**R 285.1407**  
Source: 2002 AACCS.

**R 285.1408**  
Source: 2012 AACCS.

**R 285.1501**  
Source: 2012 AACCS.

**R 285.1502**  
Source: 2012 AACCS.

**R 285.1503**  
Source: 2012 AACCS.

**R 285.1504**  
Source: 2012 AACCS.

**R 285.1505**  
Source: 2012 AACCS.

**R 285.1506**  
Source: 2012 AACCS.

**R 285.1507**  
Source: 2012 AACCS.

**R 285.1508**  
Source: 2012 AACCS.

**R 285.1509**

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**Source:** 2012 AACS.

**R 285.1510**

**Source:** 2012 AACS.

**R 285.1510a**

**Source:** 2012 AACS.

**R 285.1511**

**Source:** 2012 AACS.

**R 285.1512**

**Source:** 2012 AACS.

**R 285.1513**

**Source:** 2012 AACS.

**R 285.1514**

**Source:** 2012 AACS.

**R 285.1515**

**Source:** 2012 AACS.

**R 285.1516**

**Source:** 2002 AACS.

**R 285.1517**

**Source:** 2012 AACS.

**R 285.1601**

**Source:** 2002 AACS.

**R 285.1602**

**Source:** 2012 AACS.

**R 285.1603**

**Source:** 2012 AACS.

**R 285.1604**

**Source:** 2012 AACS.

**R 285.1605**

**Source:** 2012 AACS.

**R 285.1606**

**Source:** 2012 AACS.

**R 285.1607**

**Source:** 2012 AACS.

**R 285.1608**

**Source:** 2002 AACS.

**R 285.1609**

**Source:** 2002 AACS.

**R 285.1701**

**Source:** 2012 AACS.

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**R 285.1702**  
Source: 2012 AACS.

**R 285.1703**  
Source: 2012 AACS.

**R 285.1704**  
Source: 2012 AACS.

**R 285.1705**  
Source: 2012 AACS.

**R 285.1801**  
Source: 2012 AACS.

**R 285.1802**  
Source: 2012 AACS.

**R 285.1901**  
Source: 2012 AACS.

**R 285.1902**  
Source: 2012 AACS.

**R 285.1903**  
Source: 2012 AACS.

**R 285.1904**  
Source: 2012 AACS.

**R 285.1905**  
Source: 2012 AACS.

**R 285.1906**  
Source: 2012 AACS.

**R 285.1907**  
Source: 2012 AACS.

**MICHIGAN FAMILY FARM DEVELOPMENT AUTHORITY**

**GENERAL RULES**

**PART 1. GENERAL PROVISIONS**

**R 285.2101**  
Source: 2014 AACS.

**R 285.2102**  
Source: 2014 AACS.

**R 285.2103**  
Source: 2014 AACS.

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- R 285.2104**  
Source: 2014 AACS.
- R 285.2105**  
Source: 2014 AACS.
- R 285.2106**  
Source: 2014 AACS.
- R 285.2107**  
Source: 2014 AACS.
- R 285.2108**  
Source: 2014 AACS.
- R 285.2109**  
Source: 2014 AACS.
- R 285.2110**  
Source: 2014 AACS.
- R 285.2111**  
Source: 2014 AACS.
- R 285.2112**  
Source: 2014 AACS.
- R 285.2113**  
Source: 2014 AACS.
- R 285.2201**  
Source: 2014 AACS.
- R 285.2202**  
Source: 2014 AACS.
- R 285.2203**  
Source: 2014 AACS.
- R 285.2204**  
Source: 2014 AACS.
- R 285.2205**  
Source: 2014 AACS.
- R 285.2301**  
Source: 2014 AACS.
- R 285.2302**  
Source: 2014 AACS.
- R 285.2303**  
Source: 2014 AACS.
- R 285.2304**  
Source: 2014 AACS.

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**R 285.2305**

Source: 2014 AACS.

**R 285.2306**

Source: 2014 AACS.

**DEPARTMENT OF AGRICULTURE**  
**ANIMAL INDUSTRY DIVISION**  
**BODIES OF DEAD ANIMALS**

**R 287.651**

Source: 2011 AACS.

**R 287.651a**

Source: 2011 AACS.

**R 287.652 Disposal of dead animals and residue from burning process of dead animals.**

Rule 2. (1) Dead animals, excluding restaurant grease, buried in individual graves shall be in compliance with all of the following requirements:

- (a) The dead animal shall not come in contact with waters of the state.
- (b) The number of individual graves per acre shall not be more than 100 and the total combined animal weight shall not be more than 5 tons per acre.
- (c) Individual graves shall be separated by a minimum of 2 1/2 feet.
- (d) A grave shall not be located within 200 feet of any existing groundwater well that is used to supply potable drinking water.
- (e) The owner of the land has authorized the placement of the dead animal.

(2) Dead animals, excluding restaurant grease, buried in a common grave shall be in compliance with all of the following requirements:

- (a) Dead animals in a common grave shall be covered with at least 1 foot of soil within 24 hours of burial.
- (b) A common grave shall not remain open for more than 30 days and shall receive not less than 2 feet of soil as final cover.
- (c) Dead animals shall not come into contact with waters of the state.
- (d) The total weight of dead animals in common graves shall not be more than 5,000 pounds per acre, and if there is more than 1 common grave per acre, each common grave within that acre shall be separated by a minimum of 100 feet.
- (e) A common grave shall be located not less than 200 feet from any existing groundwater well that is used to supply potable drinking water.
- (f) The owner of the land has authorized the placement of the dead animals.

(3) By written request, an exemption to the total number of individual or graves per acre or the total weight of carcasses in an individual or common grave may be granted by the director upon concurrence with the director of the department of environmental quality.

(4) Residue from the burning process of dead animals may be land-applied at agronomic rates or properly disposed of in a landfill licensed by the department of environmental quality under the natural resources and environmental protection act, part 115 solid waste management, 1994 PA 451, MCL 324.11501 to 324.11554.

(5) If the director suspects that the disposition of dead animals, or the residue from dead animal incineration would produce a source of toxicological contamination that represents a threat to the health of humans or animals or a toxicological threat to the environment, the director may require that the dead animal or animals, or the residue from the dead animal incineration, be disposed of in a manner determined by the director. The cost of the disposal shall be the responsibility of the owner.

History: 1995 AACS; 2007 AACS; 2015 MR 21, Eff. Nov. 13, 2015.

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**R 287.653**  
Source: 1995 AACS.

**R 287.654**  
Source: 1995 AACS.

**R 287.655**  
Source: 2011 AACS.

**R 287.656**  
Source: 2007 AACS.

**R 287.657**  
Source: 2011 AACS.

**ANIMAL INDUSTRY**

**R 287.701**  
Source: 1994 AACS.

**R 287.702**  
Source: 1994 AACS.

**R 287.703**  
Source: 1994 AACS.

**R 287.704**  
Source: 1994 AACS.

**R 287.705**  
Source: 1994 AACS.

**R 287.706**  
Source: 1994 AACS.

**R 287.707**  
Source: 1994 AACS.

**R 287.708**  
Source: 1994 AACS.

**R 287.709**  
Source: 1994 AACS.

**R 287.710**  
Source: 2013 AACS.

**R 287.711**  
Source: 1994 AACS.

**R 287.712**  
Source: 1994 AACS.

**R 287.713**  
Source: 1994 AACS.

**MARKETING AND COMMUNICATION DIVISION**

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**MICHIGAN STATE APPLE COMMISSION**

- R 290.1**  
Source: 2012 AACS.
- R 290.2**  
Source: 2012 AACS.
- R 290.3**  
Source: 2012 AACS.
- R 290.4**  
Source: 2012 AACS.
- R 290.11**  
Source: 2012 AACS.
- R 290.12**  
Source: 2012 AACS.
- R 290.13**  
Source: 2012 AACS.
- R 290.14**  
Source: 2012 AACS.
- R 290.15**  
Source: 2012 AACS.
- R 290.16**  
Source: 2012 AACS.
- R 290.17**  
Source: 2012 AACS.
- R 290.18**  
Source: 2012 AACS.

**ACCREDITATION AND REGULATION OF ASSOCIATIONS**

- R 290.101**  
Source: 1979 AC.
- R 290.102**  
Source: 1979 AC.
- R 290.103**  
Source: 1979 AC.
- R 290.104**  
Source: 1979 AC.
- R 290.105**  
Source: 1979 AC.
- R 290.106**  
Source: 1979 AC.

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**Unlawful Acts On State Fair Properties**

**R 291.201**  
Source: 2012 AACS.

**R 291.202**  
Source: 2012 AACS.

**R 291.203**  
Source: 2012 AACS.

**R 291.204**  
Source: 2012 AACS.

**R 291.205**  
Source: 2012 AACS.

**R 291.206**  
Source: 2012 AACS.

**R 291.207**  
Source: 2012 AACS.

**R 291.208**  
Source: 2012 AACS.

**R 291.209**  
Source: 2012 AACS.

**R 291.210**  
Source: 2012 AACS.

**R 291.211**  
Source: 2012 AACS.

**R 291.220**  
Source: 2012 AACS.

**FAIRS, EXHIBITIONS AND RACING DIVISION**

**REGULATION NO. 851 MICHIGAN STATE FAIR**

**R 291.301**  
Source: 2012 AACS.

**R 291.302**  
Source: 2012 AACS.

**R 291.303**  
Source: 2012 AACS.

**R 291.304**  
Source: 2012 AACS.

**R 291.305**  
Source: 2012 AACS.

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**R 291.311**  
Source: 2012 AACS.

**R 291.312**  
Source: 2012 AACS.

**R 291.313**  
Source: 2012 AACS.

**R 291.314**  
Source: 2012 AACS.

**R 291.315**  
Source: 2012 AACS.

**R 291.316**  
Source: 2012 AACS.

**R 291.317**  
Source: 2012 AACS.

**R 291.318**  
Source: 2012 AACS.

**R 291.319**  
Source: 2012 AACS.

**R 291.321**  
Source: 2012 AACS.

**R 291.322**  
Source: 2012 AACS.

**R 291.323**  
Source: 2012 AACS.

**R 291.324**  
Source: 2012 AACS.

**R 291.331**  
Source: 2012 AACS.

**R 291.332**  
Source: 2012 AACS.

**R 291.333**  
Source: 2012 AACS.

**R 291.334**  
Source: 2012 AACS.

**R 291.335**  
Source: 2012 AACS.

**R 291.336**  
Source: 2012 AACS.

**R 291.337**

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Source: 2012 AACS.

**R 291.338**

Source: 2012 AACS.

**R 291.339**

Source: 2012 AACS.

**R 291.340**

Source: 2012 AACS.

**R 291.341**

Source: 2012 AACS.

**R 291.342**

Source: 2012 AACS.

**R 291.343**

Source: 2012 AACS.

**R 291.344**

Source: 2012 AACS.

**R 291.345**

Source: 2012 AACS.

**R 291.346**

Source: 2012 AACS.

**R 291.347**

Source: 2012 AACS.

**R 291.351**

Source: 2012 AACS.

**R 291.352**

Source: 2012 AACS.

**R 291.353**

Source: 2012 AACS.

**R 291.354**

Source: 2012 AACS.

**R 291.355**

Source: 2012 AACS.

**R 291.356**

Source: 2012 AACS.

**R 291.357**

Source: 2012 AACS.

**R 291.358**

Source: 2012 AACS.

**R 291.359**

Source: 2012 AACS.

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**R 291.360**  
Source: 2012 AACS.

**R 291.363**  
Source: 2012 AACS.

**R 291.365**  
Source: 2012 AACS.

**R 291.372**  
Source: 2012 AACS.

**R 291.373**  
Source: 2012 AACS.

**R 291.374**  
Source: 2012 AACS.

**R 291.375**  
Source: 2012 AACS.

**R 291.377**  
Source: 2012 AACS.

**R 291.378**  
Source: 2012 AACS.

**R 291.379**  
Source: 2012 AACS.

**R 291.381**  
Source: 2012 AACS.

**R 291.383**  
Source: 2012 AACS.

**R 291.391**  
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**R 291.392**  
Source: 2012 AACS.

**R 291.393**  
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**R 291.394**  
Source: 2012 AACS.

**R 291.395**  
Source: 2012 AACS.

**R 291.397**  
Source: 2012 AACS.

**R 291.398**  
Source: 2012 AACS.

**R 291.398a**

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**Source:** 2012 AACS.

**R 291.399**

**Source:** 2012 AACS.

**R 291.400**

**Source:** 2012 AACS.

**R 291.400a**

**Source:** 2012 AACS.

**R 291.401**

**Source:** 2012 AACS.

**R 291.402**

**Source:** 2012 AACS.

**R 291.403**

**Source:** 2012 AACS.

**R 291.404**

**Source:** 2012 AACS.

**R 291.405**

**Source:** 2012 AACS.

**R 291.406**

**Source:** 2012 AACS.

**R 291.407**

**Source:** 2012 AACS.

**R 291.409**

**Source:** 2012 AACS.

**R 291.413**

**Source:** 2012 AACS.

**R 291.421**

**Source:** 2012 AACS.

**R 291.422**

**Source:** 2012 AACS.

**R 291.423**

**Source:** 2012 AACS.

**R 291.424**

**Source:** 2012 AACS.

**R 291.425**

**Source:** 2012 AACS.

**R 291.426**

**Source:** 2012 AACS.

**R 291.427**

**Source:** 2012 AACS.

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**R 291.428**  
Source: 2012 AACS.

**R 291.429**  
Source: 2012 AACS.

**R 291.441**  
Source: 2012 AACS.

**R 291.442**  
Source: 2012 AACS.

**R 291.443**  
Source: 2012 AACS.

**R 291.449**  
Source: 2012 AACS.

**R 291.450**  
Source: 2012 AACS.

**291.471**  
Source: 2012 AACS.

**R 291.491**  
Source: 2012 AACS.

**R 291.492**  
Source: 2012 AACS.

**R 291.493**  
Source: 2012 AACS.

**R 291.494**  
Source: 2012 AACS.

**R 291.496**  
Source: 2012 AACS.

**R 291.497**  
Source: 2012 AACS.

**DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**REMEDIATION AND REDEVELOPMENT DIVISION**  
**ENVIRONMENTAL CONTAMINATION RESPONSE ACTIVITY**  
**CLEANUP CRITERIA REQUIREMENTS FOR RESPONSE ACTIVITY**

**R 299.1**  
Source: 2013 AACS.

**R 299.2**  
Source: 2013 AACS.

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- R 299.3**  
Source: 2013 AACS.
  
- R 299.4**  
Source: 2013 AACS.
  
- R 299.6**  
Source: 2013 AACS.
  
- R 299.8**  
Source: 2013 AACS.
  
- R 299.9**  
Source: 2013 AACS.
  
- R 299.10**  
Source: 2013 AACS.
  
- R 299.14**  
Source: 2013 AACS.
  
- R 299.18**  
Source: 2013 AACS.
  
- R 299.20**  
Source: 2013 AACS.
  
- R 299.22**  
Source: 2013 AACS.
  
- R 299.24**  
Source: 2013 AACS.
  
- R 299.26**  
Source: 2013 AACS.
  
- R 299.28**  
Source: 2013 AACS.
  
- R 299.30**  
Source: 2013 AACS.
  
- R 299.34**  
Source: 2013 AACS.
  
- R 299.36**  
Source: 2013 AACS.
  
- R 299.38**  
Source: 2013 AACS.
  
- R 299.40**  
Source: 2013 AACS.
  
- R 299.44**  
Source: 2013 AACS.

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**R 299.46**

**Source:** 2013 AACS.

**R 299.48**

**Source:** 2013 AACS.

**R 299.49**

**Source:** 2013 AACS.

**R 299.50**

**Source:** 2013 AACS.

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**DEPARTMENT OF NATURAL RESOURCES**

**WILDLIFE DIVISION**

**RULES FOR PUT-TAKE PHEASANT AREAS**

**R 299.61**  
Source: 2011 AACS.

**R 299.62**  
Source: 2011 AACS.

**DEPARTMENT OF NATURAL RESOURCES**

**PARKS AND RECREATION DIVISION**

**HUNTING RESTRICTION--HIGHLAND AND WATERLOO RECREATION AREAS**

**R 299.291a**  
Source: 2011 AACS.

**R 299.292**  
Source: 2011 AACS.

**R 299.293**  
Source: 1979 AC.

**PARKS AND RECREATION DIVISION**

**PUBLIC ACCESS SITES**

**R 299.301**  
Source: 2001 AACS.

**R 299.302**  
Source: 2001 AACS.

**R 299.303**  
Source: 2001 AACS.

**PARKS AND RECREATION DIVISION**

**STATE PARKS AND RECREATION AREAS**

**R 299.321**  
Source: 2001 AACS.

**R 299.322**  
Source: 2001 AACS.

**R 299.323**  
Source: 2001 AACS.

**R 299.324**  
Source: 2001 AACS.

**R 299.325**  
Source: 2001 AACS.

**R 299.326**

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Source: 2001 AACS.

**R 299.327**

Source: 2001 AACS.

**R 299.328**

Source: 2001 AACS.

**LANDS DIVISION**

**STATE LANDS OTHER THAN STATE PARKS AND RECREATION AREAS**

**R 299.331**

Source: 2001 AACS.

**R 299.332**

Source: 2001 AACS.

**R 299.333**

Source: 2001 AACS.

**R 299.334**

Source: 2001 AACS.

**R 299.335**

Source: 2001 AACS.

**FOREST MANAGEMENT DIVISION**

**DEADSTREAM SWAMP**

**R 299.341**

Source: 2013 AACS.

**R 299.342**

Source: 2013 AACS.

**WILDLIFE DIVISION**

**SHOOTING PRESERVES**

**R 299.641**

Source: 2001 AACS.

**R 299.642**

Source: 2001 AACS.

**R 299.643**

Source: 2001 AACS.

**R 299.644**

Source: 2001 AACS.

**R 299.645**

Source: 2001 AACS.

**R 299.646**

Source: 2001 AACS.

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**R 299.647**  
Source: 2001 AACS.

**R 299.648**  
Source: 2001 AACS.

**R 299.649**  
Source: 2001 AACS.

**R 299.650**  
Source: 2001 AACS.

**R 299.651**  
Source: 2001 AACS.

**R 299.652**  
Source: 2001 AACS.

**R 299.653**  
Source: 2001 AACS.

**R 299.654**  
Source: 2001 AACS.

**R 299.655**  
Source: 2001 AACS.

**R 299.656**  
Source: 2001 AACS.

**R 299.657**  
Source: 2001 AACS.

**R 299.658**  
Source: 2001 AACS.

**R 299.659**  
Source: 2001 AACS.

**DEPARTMENT OF NATURAL RESOURCES**

**WILDLIFE DIVISION**

**STATE GAME AND WILDLIFE AREAS**

**R 299.661**  
Source: 2001 AACS.

**R 299.662**  
Source: 2001 AACS.

**R 299.663**  
Source: 2001 AACS.

**R 299.664**  
Source: 2001 AACS.

**R 299.665**  
Source: 2001 AACS.

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**R 299.666**  
Source: 2001 AACS.

**R 299.667**  
Source: 2001 AACS.

**R 299.668**  
Source: 2001 AACS.

**R 299.669**  
Source: 1979 AC.

**DEPARTMENT OF NATURAL RESOURCES**  
**LAW ENFORCEMENT DIVISION**  
**SHOOTING RANGES ON STATE-OWNED LANDS**

**R 299.671**  
Source: 2010 AACS.

**R 299.672**  
Source: 2010 AACS.

**R 299.673**  
Source: 2010 AACS.

**R 299.673a**  
Source: 2010 AACS.

**R 299.674**  
Source: 2010 AACS.

**R 299.675**  
Source: 2010 AACS.

**R 299.676**  
Source: 2010 AACS.

**R 299.677**  
Source: 2010 AACS.

**R 299.678**  
Source: 2010 AACS.

**FIELD DOG TRIAL AREAS**

**R 299.681**  
Source: 2011 AACS.

**R 299.699**  
Source: 2011 AACS.

**USE OF TRAWLS**

**R 299.701**  
Source: 1979 AC.

**R 299.702**  
Source: 1979 AC.

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**R 299.703**  
Source: 1979 AC.

**R 299.704**  
Source: 1979 AC.

**R 299.705**  
Source: 1979 AC.

**COMMERCIAL FISHING**

**R 299.721**  
Source: 1979 AC.

**R 299.722**  
Source: 1979 AC.

**R 299.723**  
Source: 1979 AC.

**R 299.724**  
Source: 1979 AC.

**R 299.731**  
Source: 1979 AC.

**R 299.751**  
Source: 1979 AC.

**R 299.761**  
Source: 1979 AC.

**R 299.771**  
Source: 1979 AC.

**R 299.781**  
Source: 1979 AC.

**R 299.782**  
Source: 1979 AC.

**R 299.791**  
Source: 1979 AC.

**R 299.801**  
Source: 1979 AC.

**R 299.813**  
Source: 1979 AC.

**R 299.815**  
Source: 1979 AC.

**R 299.816**  
Source: 1979 AC.

**R 299.817**  
Source: 1979 AC.

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**R 299.821**  
Source: 1979 AC.

**R 299.822**  
Source: 1979 AC.

**R 299.823**  
Source: 1979 AC.

**R 299.824**  
Source: 1979 AC.

**R 299.827**  
Source: 1979 AC.

**R 299.846**  
Source: 1979 AC.

**SLASH DISPOSAL**

**R 299.901**  
Source: 2012 AACS.

**R 299.902**  
Source: 2012 AACS.

**R 299.903**  
Source: 2012 AACS.

**R 299.904**  
Source: 2012 AACS.

**R 299.905**  
Source: 2012 AACS.

**R 299.906**  
Source: 2012 AACS.

**R 299.907**  
Source: 2012 AACS.

**REGULATION OF LANDS**

**R 299.921**  
Source: 2014 AACS.

**R 299.922**  
Source: 2014 AACS.

**R 299.923**  
Source: 2014 AACS.

**R 299.924**  
Source: 2014 AACS.

**R 299.925**  
Source: 2014 AACS.

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**R 299.926**  
Source: 2014 AACS.

**R 299.927**  
Source: 2014 AACS.

**R 299.928**  
Source: 2014 AACS.

**R 299.929**  
Source: 2014 AACS.

**R 299.930**  
Source: 2014 AACS.

**R 299.931**  
Source: 2014 AACS.

**R 299.932**  
Source: 2014 AACS.

**R 299.933**  
Source: 2002 AACS.

**RELOCATION ASSISTANCE**

**R 299.951**  
Source: 1979 AC.

**R 299.952**  
Source: 1979 AC.

**R 299.953**  
Source: 1979 AC.

**R 299.954**  
Source: 1979 AC.

**R 299.955**  
Source: 1979 AC.

**R 299.956**  
Source: 1979 AC.

**R 299.957**  
Source: 1979 AC.

**WILDLIFE DIVISION**  
**PUBLIC ACCESS STAMP PROGRAM**

**R 299.981**  
Source: 2011 AACS.

**R 299.982**  
Source: 2011 AACS.

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**R 299.983**  
Source: 2011 AACS.

**R 299.984**  
Source: 2011 AACS.

**R 299.985**  
Source: 2011 AACS.

**R 299.986**  
Source: 2011 AACS.

**R 299.987**  
Source: 2011 AACS.

**R 299.988**  
Source: 2011 AACS.

**R 299.989**  
Source: 2011 AACS.

**ROSE LAKE WILDLIFE RESEARCH AREA**

**R 299.1001**  
Source: 1986 AACS.

**R 299.1002**  
Source: 1986 AACS.

**R 299.1003**  
Source: 1986 AACS.

**R 299.1004**  
Source: 1986 AACS.

**WILDLIFE AND FISHERIES DIVISIONS**  
**ENDANGERED AND THREATENED SPECIES**

**R 299.1021**  
Source: 2009 AACS.

**R 299.1022**  
Source: 2009 AACS.

**R 299.1023**  
Source: 2009 AACS.

**R 299.1024**  
Source: 2009 AACS.

**R 299.1025**  
Source: 2009 AACS.

**R 299.1026**  
Source: 2009 AACS.

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**R 299.1027**  
Source: 2009 AACS.

**R 299.1028**  
Source: 2009 AACS.

**IMPORTATION AND TRANSPORTATION OF FISH AND EGGS**

**R 299.1051**  
Source: 1979 AC.

**R 299.1052**  
Source: 1979 AC.

**MARKETING OF IMPORTED COMMERCIAL AND GAME FISH**

**R 299.1061**  
Source: 1979 AC.

**COMMERCIAL FISHING**

**R 299.1071**  
Source: 1979 AC.

**R 299.1072**  
Source: 1979 AC.

**R 299.1073**  
Source: 1979 AC.

**R 299.1074**  
Source: 1979 AC.

**R 299.1075**  
Source: 1979 AC.

**R 299.1076**  
Source: 1979 AC.

**R 299.1077**  
Source: 1979 AC.

**R 299.1078**  
Source: 1979 AC.

**R 299.1079**  
Source: 1979 AC.

**DEPARTMENT OF ENVIRONMENTAL QUALITY**

**GEOLOGICAL SURVEY DIVISION**

**OIL AND GAS OPERATIONS**

**PERMITS TO DRILL**

**R 299.1101**  
Source: 1997 AACS.

**R 299.1102**  
Source: 1997 AACS.

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**R 299.1103**  
Source: 1997 AACS.

**R 299.1104**  
Source: 1997 AACS.

**R 299.1105**  
Source: 1997 AACS.

**R 299.1105a**  
Source: 1997 AACS.

**R 299.1106**  
Source: 1997 AACS.

**R 299.1107**  
Source: 1997 AACS.

**R 299.1108**  
Source: 1997 AACS.

**R 299.1109**  
Source: 1997 AACS.

**R 299.1110**  
Source: 1997 AACS.

**R 299.1111**  
Source: 1997 AACS.

**R 299.1112**  
Source: 1997 AACS.

**LOCATION AND SPACING OF WELLS**

**R 299.1201**  
Source: 1997 AACS.

**R 299.1202**  
Source: 1997 AACS.

**R 299.1203**  
Source: 1997 AACS.

**R 299.1204**  
Source: 1997 AACS.

**R 299.1205**  
Source: 1997 AACS.

**R 299.1206**  
Source: 1997 AACS.

**DRILLING**

**R 299.1301**

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Source: 1997 AACS.

**R 299.1302**

Source: 1997 AACS.

**R 299.1303**

Source: 1997 AACS.

**R 299.1304**

Source: 1997 AACS.

**R 299.1305**

Source: 1997 AACS.

**R 299.1306**

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**R 299.1307**

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**R 299.1308**

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**R 299.1309**

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**R 299.1310**

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**R 299.1311**

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**R 299.1312**

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**R 299.1313**

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**R 299.1314**

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**R 299.1315**

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**R 299.1316**

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**R 299.1317**

Source: 1997 AACS.

**R 299.1318**

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**R 299.1319**

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**R 299.1320**

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**R 299.1321**  
Source: 1997 AACS.

**R 299.1322**  
Source: 1997 AACS.

**PRODUCTION**

**R 299.1401**  
Source: 1997 AACS.

**R 299.1402**  
Source: 1997 AACS.

**R 299.1403**  
Source: 1997 AACS.

**R 299.1404**  
Source: 1997 AACS.

**R 299.1405**  
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**R 299.1406**  
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**R 299.1407**  
Source: 1997 AACS.

**R 299.1408**  
Source: 1997 AACS.

**R 299.1409**  
Source: 1997 AACS.

**R 299.1410**  
Source: 1997 AACS.

**PRORATION**

**R 299.1501**  
Source: 1997 AACS.

**R 299.1502**  
Source: 1997 AACS.

**R 299.1503**  
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**R 299.1504**  
Source: 1997 AACS.

**R 299.1505**  
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**R 299.1506**  
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**R 299.1507**  
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**R 299.1508**  
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**R 299.1509**  
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**R 299.1510**  
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**R 299.1511**  
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**R 299.1512**  
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**R 299.1513**  
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**R 299.1514**  
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**R 299.1515**  
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**R 299.1516**  
Source: 1997 AACS.

**R 299.1517**  
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**BRINE DISPOSAL**

**R 299.1601**  
Source: 1997 AACS.

**R 299.1602**  
Source: 1997 AACS.

**R 299.1603**  
Source: 1997 AACS.

**R 299.1604**  
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**R 299.1605**  
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**R 299.1606**  
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**SECONDARY RECOVERY AND PRESSURE MAINTENANCE**

**R 299.1701**  
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**R 299.1702**  
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**PLUGGING**

**R 299.1801**  
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**R 299.1802**  
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**R 299.1803**  
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**R 299.1806**  
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**R 299.1810**  
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**R 299.1811**  
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**PREVENTION OF FIRES AND POLLUTION AND DANGER  
OR DESTRUCTION OF PROPERTY AND LIFE**

**R 299.1901**  
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**R 299.1902**  
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**R 299.1904**  
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**R 299.1905**  
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**R 299.1908**  
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**R 299.1909**  
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**R 299.1910**  
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**HYDROGEN SULFIDE MANAGEMENT**

**R 299.1911—R 299.1999**  
Source: 1997 AACS.

**PUBLIC HEARING**

**R 299.2001**  
Source: 1997 AACS.

**R 299.2002**  
Source: 1997 AACS.

**R 299.2003**  
Source: 1997 AACS.

**R 299.2004**  
Source: 1997 AACS.

**R 299.2005**  
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**R 299.2006**  
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**R 299.2007**  
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**R 299.2008**  
Source: 1997 AACS.

**R 299.2009**  
Source: 1997 AACS.

**R 299.2010**  
Source: 1997 AACS.

ENFORCEMENT

**R 299.2101**  
Source: 1997 AACS.

PART 1. GENERAL PROVISIONS

**R 299.2201**  
Source: 2004 AACS.

**R 299.2205**  
Source: 2004 AACS.

**R 299.2207**  
Source: 2004 AACS.

**R 299.2211**  
Source: 2004 AACS.

**R 299.2212**  
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**R 299.2213**  
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**R 299.2215**  
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**R 299.2216**  
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**R 299.2221**  
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**R 299.2222**  
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**R 299.2223**  
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**R 299.2225**  
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**R 299.2227**  
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**R 299.2228**  
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**R 299.2229**  
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**R 299.2231**  
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**R 299.2235**  
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**R 299.2241**  
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**R 299.2242**  
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**R 299.2244**  
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**R 299.2246**  
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**R 299.2247**  
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**R 299.2248**  
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**R 299.2249**  
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**R 299.2252**  
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**R 299.2253**  
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**R 299.2254**  
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**R 299.2255**  
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**R 299.2256**  
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**R 299.2257**  
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**R 299.2261**  
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**R 299.2262**  
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**R 299.2265**  
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**R 299.2267**

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**R 299.2273**

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**R 299.2281**

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**R 299.2282**

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**R 299.2283**

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**R 299.2285**

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**R 299.2287**

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**R 299.2291**

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**R 299.2294**

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**R 299.2295**

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**R 299.2296**

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**R 299.2297**

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**R 299.2298**

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**GEOLOGICAL AND LAND MANAGEMENT DIVISION**  
**MINERAL WELLS OPERATIONS**  
**PART 1. GENERAL PROVISIONS**

**R 299.2301**

Source: 2004 AACS.

**R 299.2302**

Source: 2004 AACS.

**R 299.2303**

Source: 2004 AACS.

**R 299.2304**

Source: 2004 AACS.

**R 299.2305**

Source: 2004 AACS.

**R 299.2309**

Source: 2004 AACS.

**PART 2. PERMITS TO DRILL AND OPERATE**

**R 299.2311**

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**R 299.2312**

Source: 2004 AACS.

**R 299.2313**

Source: 2004 AACS.

**R 299.2314**

Source: 2004 AACS.

**R 299.2315.**

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**R 299.2316**

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**R 299.2317**

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**R 299.2318**

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**R 299.2319**  
Source: 2004 AACS.

**R 299.2320**  
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**R 299.2321**  
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**R 299.2322**  
Source: 2004 AACS.

**R 299.2323**  
Source: 2004 AACS.

**R 299.2324**  
Source: 2004 AACS.

**R 299.2325**  
Source: 2004 AACS.

**R 299.2326**  
Source: 2004 AACS.

**R 299.2327**  
Source: 2004 AACS.

**R 299.2328**  
Source: 2008 AACS.

**R 299.2329**  
Source: 2004 AACS.

**R 299.2330**  
Source: 2004 AACS.

**R 299.2331**  
Source: 2004 AACS.

**R 299.2332**  
Source: 2008 AACS.

**R 299.2333**  
Source: 2004 AACS.

**R 299.2334**  
Source: 2004 AACS.

**R 299.2335**  
Source: 2004 AACS.

**R 299.2336**  
Source: 2004 AACS.

**R 299.2337**

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Source: 2004 AACS.

**PART 3. LOCATION OF MINERAL WELLS**

**R 299.2341**

Source: 2008 AACS.

**PART 4. WELL DRILLING AND CONSTRUCTION**

**R 299.2351**

Source: 2004 AACS.

**R 299.2352**

Source: 2004 AACS.

**R 299.2353**

Source: 2004 AACS.

**R 299.2354**

Source: 2004 AACS.

**R 299.2355**

Source: 2004 AACS.

**R 299.2356**

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**R 299.2357**

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**R 299.2358**

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**R 299.2359**

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**R 299.2360**

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**R 299.2361**

Source: 2004 AACS.

**R 299.2362**

Source: 2004 AACS.

**R 299.2363**

Source: 2004 AACS.

**R 299.2364**

Source: 2004 AACS.

**R 299.2365**

Source: 2004 AACS.

**R 299.2366**

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Source: 2004 AACS.

**R 299.2367**

Source: 2004 AACS.

**R 299.2368**

Source: 2004 AACS.

**R 299.2369**

Source: 2004 AACS.

**R 299.2370**

Source: 2004 AACS.

**R 299.2371**

Source: 2004 AACS.

**R 299.2372**

Source: 2004 AACS.

**PART 5. COMPLETION**

**R 299.2381**

Source: 2004 AACS.

**R 299.2382**

Source: 2004 AACS.

**R 299.2383**

Source: 2004 AACS.

**R 299.2384**

Source: 2004 AACS.

**R 299.2385**

Source: 2004 AACS.

**PART 6. MECHANICAL INTEGRITY TESTING**

**R 299.2391**

Source: 2008 AACS.

**R 299.2392**

Source: 2004 AACS.

**R 299.2393**

Source: 2004 AACS.

**R 299.2394**

Source: 2004 AACS.

**R 299.2395**

Source: 2004 AACS.

**R 299.2396**

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**Source:** 2004 AACS.

**R 299.2397**

**Source:** 2004 AACS.

**R 299.2398**

**Source:** 2004 AACS.

**R 299.2399**

**Source:** 2004 AACS.

**PART 7. OPERATION OF BRINE PRODUCTION AND SOLUTION MINING WELLS**

**R 299.2401**

**Source:** 2004 AACS.

**R 299.2402**

**Source:** 2004 AACS.

**R 299.2403**

**Source:** 2004 AACS.

**R 299.2404**

**Source:** 2004 AACS.

**R 299.2405**

**Source:** 2004 AACS.

**R 299.2406**

**Source:** 2004 AACS.

**R 299.2407**

**Source:** 2004 AACS.

**R 299.2408**

**Source:** 2004 AACS.

**PART 8. OPERATION OF DISPOSAL OR STORAGE WELLS**

**R 299.2411**

**Source:** 2004 AACS.

**R 299.2412**

**Source:** 2004 AACS.

**R 299.2413**

**Source:** 2004 AACS.

**R 299.2414**

**Source:** 2004 AACS.

**R 299.2415**

**Source:** 2004 AACS.

**R 299.2416**

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Source: 2004 AACS.

**PART 9. DISPOSITION OF BRINE**

**R 299.2421**

Source: 2004 AACS.

**R 299.2422**

Source: 2004 AACS.

**R 299.2423**

Source: 2004 AACS.

**R 299.2424**

Source: 2004 AACS.

**PART 10. PLUGGING**

**R 299.2431**

Source: 2004 AACS.

**R 299.2432**

Source: 2004 AACS.

**R 299.2433**

Source: 2004 AACS.

**R 299.2434**

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**R 299.2435**

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**R 299.2436**

Source: 2004 AACS.

**R 299.2437**

Source: 2008 AACS.

**R 299.2438**

Source: 2004 AACS.

**R 299.2439**

Source: 2004 AACS.

**PART 11. WELL SITES; SURFACE FACILITIES; FLOW LINES**

**R 299.2441**

Source: 2004 AACS.

**R 299.2442**

Source: 2004 AACS.

**R 299.2443**

Source: 2004 AACS.

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**R 299.2444**  
Source: 2004 AACS.

**R 299.2445**  
Source: 2004 AACS.

**R 299.2446**  
Source: 2004 AACS.

**R 299.2447**  
Source: 2004 AACS.

**R 299.2448**  
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**R 299.2449**  
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**R 299.2450**  
Source: 2004 AACS.

**R 299.2451**  
Source: 2004 AACS.

**R 299.2452**  
Source: 2004 AACS.

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**R 299.2454**  
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**R 299.2459**  
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**R 299.2460**  
Source: 2004 AACS.

**R 299.2461**  
Source: 2004 AACS.

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**R 299.2462**  
Source: 2004 AACS.

**R 299.2463**  
Source: 2004 AACS.

**PART 12. HYDROGEN SULFIDE MANAGEMENT**

**R 299.2471**  
Source: 2004 AACS.

**R 299.2472**  
Source: 2004 AACS.

**R 299.2473**  
Source: 2004 AACS.

**R 299.2474**  
Source: 2004 AACS.

**R 299.2475**  
Source: 2004 AACS.

**R 299.2476**  
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**R 299.2477**  
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**R 299.2478**  
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**R 299.2479**  
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**R 299.2480**  
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**R 299.2481**  
Source: 2004 AACS.

**R 299.2482**  
Source: 2004 AACS.

**R 299.2483**  
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**R 299.2484**  
Source: 2004 AACS.

**R 299.2485**  
Source: 2004 AACS.

**R 299.2486**  
Source: 2004 AACS.

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**R 299.2487**  
Source: 2004 AACS.

**R 299.2488**  
Source: 2004 AACS.

**R 299.2489**  
Source: 2004 AACS.

**R 299.2490**  
Source: 2004 AACS.

**R 299.2491**  
Source: 2004 AACS.

**PART 13. HEARINGS**

**R 299.2501**  
Source: 2004 AACS.

**R 299.2502**  
Source: 2004 AACS.

**R 299.2503**  
Source: 2004 AACS.

**R 299.2504**  
Source: 2004 AACS.

**R 299.2505**  
Source: 2004 AACS.

**R 299.2506**  
Source: 2004 AACS.

**R 299.2507**  
Source: 2004 AACS.

**R 299.2508**  
Source: 2004 AACS.

**R 299.2509**  
Source: 2004 AACS.

**R 299.2510**  
Source: 2004 AACS.

**R 299.2511**  
Source: 2004 AACS.

**R 299.2512**  
Source: 2004 AACS.

**PART 14. ENFORCEMENT**

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**R 299.2521**  
Source: 2004 AACS.

**R 299.2522**  
Source: 2004 AACS.

**R 299.2523**  
Source: 1997 AACS.

**R 299.2524**  
Source: 1997 AACS.

**R 299.2525**  
Source: 1997 AACS.

**R 299.2526**  
Source: 1997 AACS.

**R 299.2527**  
Source: 1997 AACS.

**R 299.2528**  
Source: 1997 AACS.

**R 299.2529**  
Source: 1997 AACS.

**R 299.2530**  
Source: 1997 AACS.

**PART 15. MINERAL WELL REGULATORY FEE**

**R 299.2531**  
Source: 2008 AACS.

**R 299.2532**  
Source: 1997 AACS.

**R 299.2533**  
Source: 1997 AACS.

**FOREST MANAGEMENT DIVISION**  
**COMMERCIAL FORESTS**

**R 299.2601**  
Source: 2014 AACS.

**R 299.2602**  
Source: 1997 AACS.

**R 299.2603**  
Source: 2014 AACS.

**R 299.2603a**

**Annual Administrative Code Supplement**  
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**Source:** 2014 AACS.

**R 299.2604**

**Source:** 2014 AACS.

**R 299.2605**

**Source:** 2014 AACS.

**R 299.2605a**

**Source:** 2014 AACS.

**R 299.2605(b)**

**Source:** 2014 AACS.

**R 299.2606**

**Source:** 2014 AACS.

**R 299.2607**

**Source:** 2014 AACS.

**R 299.2608**

**Source:** 2014 AACS.

**R 299.2609**

**Source:** 1987 AACS.

**R 299.2610**

**Source:** 2014 AACS.

**R 299.2611**

**Source:** 2014 AACS.

**R 299.2612**

**Source:** 2014 AACS.

**FOREST AND MINERAL RESOURCE DEVELOPMENT FUND BOARD**  
**FOREST AND MINERAL RESOURCE DEVELOPMENT FUND PROGRAM**

**R 299.2651**

**Source:** 1991 AACS.

**R 299.2652**

**Source:** 1991 AACS.

**R 299.2653**

**Source:** 1991 AACS.

**R 299.2654**

**Source:** 1991 AACS.

**R 299.2655**

**Source:** 1991 AACS.

**R 299.2656**

**Source:** 1991 AACS.

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**R 299.2657**  
Source: 1991 AACS.

**R 299.2658**  
Source: 1991 AACS.

**R 299.2659**  
Source: 1991 AACS.

**R 299.2660**  
Source: 1991 AACS.

**R 299.2661**  
Source: 1991 AACS.

**R 299.2662**  
Source: 1991 AACS.

**R 299.2663**  
Source: 1991 AACS.

**R 299.2664**  
Source: 1991 AACS.

**R 299.2665**  
Source: 1991 AACS.

**R 299.2666**  
Source: 1991 AACS.

**LAW ENFORCEMENT DIVISION**

**USE OF RIVERS**

**PART 1. GENERAL PROVISIONS**

**R 299.2701**  
Source: 1993 AACS.

**R 299.2702**  
Source: 1993 AACS.

**R 299.2703**  
Source: 1993 AACS.

**R 299.2704**  
Source: 1993 AACS.

**R 299.2705**  
Source: 1993 AACS.

**R 299.2706**  
Source: 1993 AACS.

**R 299.2707**  
Source: 1993 AACS.

**R 299.2708**

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Source: 1993 AACS.

**R 299.2709**

Source: 1993 AACS.

**R 299.2710**

Source: 1993 AACS.

**R 299.2711**

Source: 1993 AACS.

**R 299.2712**

Source: 1993 AACS.

**R 299.2713**

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**R 299.2714**

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**R 299.2715**

Source: 1993 AACS.

**R 299.2716**

Source: 1993 AACS.

**R 299.2717**

Source: 1993 AACS.

**R 299.2718**

Source: 1993 AACS.

**R 299.2719**

Source: 1993 AACS.

**PART 2. AU SABLE, MANISTEE, PINE, AND PERE MARQUETTE RIVERS**

**R 299.2721**

Source: 1993 AACS.

**R 299.2722**

Source: 1993 AACS.

**R 299.2723**

Source: 1993 AACS.

**R 299.2724**

Source: 1993 AACS.

**R 299.2725**

Source: 1993 AACS.

**R 299.2726**

Source: 1993 AACS.

**R 299.2727**

Source: 1993 AACS.

**WILDLIFE DIVISION**  
**PUBLIC EXHIBITIONS OF WILD ANIMALS AND BIRDS**

**PART 1. GENERAL PROVISIONS**

- R 299.2801**  
Source: 1993 AACS.
- R 299.2802**  
Source: 1993 AACS.
- R 299.2803**  
Source: 1993 AACS.
- R 299.2804**  
Source: 1993 AACS.
- R 299.2805**  
Source: 1993 AACS.
- R 299.2806**  
Source: 1993 AACS.
- R 299.2807**  
Source: 1993 AACS.
- R 299.2808**  
Source: 1993 AACS.
- R 299.2809**  
Source: 1993 AACS.

**PART 2. PERMITS**

- R 299.2811**  
Source: 1993 AACS.
- R 299.2812**  
Source: 1993 AACS.
- R 299.2813**  
Source: 1993 AACS.
- R 299.2814**  
Source: 1993 AACS.
- R 299.2815**  
Source: 1993 AACS.
- R 299.2816**  
Source: 1993 AACS.
- R 299.2817**  
Source: 1993 AACS.
- R 299.2818**

**Annual Administrative Code Supplement**  
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Source: 1993 AACS.

**PART 3. PENS AND HOUSING**

**R 299.2821**

Source: 1993 AACS.

**R 299.2822**

Source: 1993 AACS.

**R 299.2823**

Source: 1993 AACS.

**R 299.2824**

Source: 1993 AACS.

**R 299.2825**

Source: 1993 AACS.

**R 299.2826**

Source: 1993 AACS.

**R 299.2827**

Source: 1993 AACS.

**R 299.2828**

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**R 299.2829**

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**R 299.2830**

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**R 299.2831**

Source: 1993 AACS.

**R 299.2832**

Source: 1993 AACS.

**R 299.2833**

Source: 1993 AACS.

**R 299.2834**

Source: 1993 AACS.

**R 299.2835**

Source: 1993 AACS.

**R 299.2836**

Source: 1993 AACS.

**R 299.2837**

Source: 1993 AACS.

**R 299.2838**

Source: 1993 AACS.

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**R 299.2839**  
Source: 1993 AACS.

**PART 4. PERMITTEES' OPERATIONS**

**R 299.2851**  
Source: 1993 AACS.

**R 299.2852**  
Source: 1993 AACS.

**R 299.2853**  
Source: 1993 AACS.

**R 299.2854**  
Source: 1993 AACS.

**R 299.2855**  
Source: 1993 AACS.

**R 299.2856**  
Source: 1993 AACS.

**R 299.2857**  
Source: 1993 AACS.

**R 299.2858**  
Source: 1993 AACS.

**R 299.2859**  
Source: 1993 AACS.

**R 299.2860**  
Source: 1993 AACS.

**DEPARTMENT OF ENVIRONMENTAL QUALITY**

**ENVIRONMENTAL ASSISTANCE DIVISION**

**GENERAL RULES**

**PART 1. GENERAL PROVISIONS**

**R 299.2901**  
Source: 1979 AC.

**R 299.2903**  
Source: 2003 AACS.

**R 299.2905**  
Source: 2003 AACS.

**PART 2. TREATMENT FACILITY CLASSIFICATIONS AND OPERATOR CERTIFICATION**

**R 299.2911**  
Source: 2003 AACS.

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**R 299.2912.**  
Source: 2003 AACS.

**R 299.2916.**  
Source: 2003 AACS.

**R 299.2917**  
Source: 2003 AACS.

**R 299.2918**  
Source: 2003 AACS.

**R299.2920**  
Source: 2003 AACS.

**R 299.2922**  
Source: 2003 AACS.

**R 299.2923**  
Source: 2003 AACS.

**R 299.2924**  
Source: 2003 AACS.

**R 299.2925**  
Source: 2003 AACS.

**R 299.2925a**  
Source: 2003 AACS.

**R 299.2926**  
Source: 2003 AACS.

**R 299.2927**  
Source: 2003 AACS.

**R 299.2931**  
Source: 1979 AACS.

**R 299.2933**  
Source: 2012 AACS.

**R 299.2935**  
Source: 1979 AACS.

**R 299.2936**  
Source: 1979 AACS.

**R 299.2938**  
Source: 1979 AACS.

**R 299.2939**  
Source: 1979 AACS.

**R 299.2941**  
Source: 1979 AACS.

**R 299.2942**

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Source: 1979 AACS.

**R 299.2943**

Source: 1979 AACS.

**R 299.2945**

Source: 1979 AACS.

**PART 4. OPERATION AND MAINTENANCE OF SEWERAGE SYSTEMS**

**R 299.2951**

Source: 1979 AACS.

**R 299.2952**

Source: 1979 AACS.

**R 299.2953**

Source: 1979 AACS.

**R 299.2955**

Source: 1979 AACS.

**R 299.2956**

Source: 1979 AACS.

**R 299.2957**

Source: 1979 AACS.

**R 299.2959**

Source: 1998-2000 AACS.

**R 299.2960**

Source: 1979 AACS.

**PART 5. HEARINGS**

**R 299.2971**

Source: 1998-2000 AACS.

**R 299.2972**

Source: 1998-2000 AACS.

**R 299.2973**

Source: 1998-2000 AACS.

**R 299.2974**

Source: 1998-2000 AACS.

**NATURAL RESOURCES COMMISSION**

**DEPARTMENT ORGANIZATION AND GENERAL FUNCTIONS**

**PART 1. NATURAL RESOURCES COMMISSION**

**R 299.3001**

Source: 2013 AACS.

**R 299.3002**

Source: 2013 AACS.

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**R 299.3003**  
Source: 1997 AACS.

**R 299.3004**  
Source: 2013 AACS.

**R 299.3005**  
Source: 2013 AACS.

**R 299.3006**  
Source: 1997 AACS.

**PART 2. NATURAL RESOURCES DEPARTMENT**

**R 299.3006a**  
Source: 2013 AACS.

**R 299.3007**  
Source: 1997 AACS.

**R 299.3008**  
Source: 1997 AACS.

**R 299.3009**  
Source: 1997 AACS.

**R 299.3010**  
Source: 1997 AACS.

**R 299.3011**  
Source: 1997 AACS.

**R 299.3012**  
Source: 1997 AACS.

**R 299.3013**  
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**R 299.3014**  
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**R 299.3015**  
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**R 299.3016**  
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**R 299.3018**  
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**R 299.3019**  
Source: 1997 AACS.

**R 299.3020**

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Source: 1997 AACS.

**R 299.3021**

Source: 1997 AACS.

**R 299.3022**

Source: 1997 AACS.

**R 299.3023**

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**R 299.3024**

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Source: 1997 AACS.

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**R 299.3041**  
Source: 2013 AACS.

**R 299.3042**  
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**R 299.3043**  
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**R 299.3058**  
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**R 299.3060**  
Source: 2013 AACS.

**R 299.3061**  
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**R 299.3071**  
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**R 299.3093**  
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**R 299.3094**  
Source: 2013 AACS.

**R 299.3095**  
Source: 2013 AACS.

**R 299.3099**  
Source: 2013 AACS.

**BUREAU OF ENVIRONMENTAL PROTECTION**

**POLYCHLORINATED BIPHENYLS**

**R 299.3301**  
Source: 2013 AACS.

**R 299.3302**  
Source: 2013 AACS.

**R 299.3303**  
Source: 2013 AACS.

**R 299.3304**  
Source: 2013 AACS.

**R 299.3305**  
Source: 2013 AACS.

**R 299.3306**  
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**R 299.3307**  
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**R 299.3308**  
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**R 299.3309**  
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**R 299.3310**  
Source: 2013 AACS.

**R 299.3311**  
Source: 2013 AACS.

**R 299.3312**  
Source: 2013 AACS.

**R 299.3313**  
Source: 2013 AACS.

**R 299.3314**  
Source: 2013 AACS.

**R 299.3315**  
Source: 2013 AACS.

**R 299.3316**  
Source: 2013 AACS.

**R 299.3317**  
Source: 2013 AACS.

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**R 299.3318**  
Source: 2013 AACS.

**R 299.3319**  
Source: 2013 AACS.

**LANDS DIVISION**  
**METALLIC MINERALS LEASES ON STATE LANDS**

**R 299.4001**  
Source: 1984 AACS.

**R 299.4002**  
Source: 1984 AACS.

**R 299.4003**  
Source: 1984 AACS.

**R 299.4004**  
Source: 1984 AACS.

**R 299.4005**  
Source: 1984 AACS.

**R 299.4006**  
Source: 1984 AACS.

**R 299.4007**  
Source: 1984 AACS.

**NONMETALLIC MINERALS LEASES ON STATE LANDS**

**R 299.4021**  
Source: 1987 AACS.

**R 299.4022**  
Source: 1987 AACS.

**R 299.4023**  
Source: 1987 AACS.

**R 299.4024**  
Source: 1987 AACS.

**R 299.4025**  
Source: 1987 AACS.

**R 299.4026**  
Source: 1987 AACS.

**R 299.4027**  
Source: 1987 AACS.

**REAL ESTATE DIVISION**

**UNDERGROUND GAS STORAGE LEASES ON STATE LANDS**

**R 299.4051**

Source: 1990 AACCS.

**R 299.4052**

Source: 1990 AACCS.

**R 299.4053**

Source: 1990 AACCS.

**R 299.4054**

Source: 1990 AACCS.

**R 299.4055**

Source: 1990 AACCS.

**DEPARTMENT OF ENVIRONMENTAL QUALITY  
WASTE MANAGEMENT DIVISION  
SOLID WASTE MANAGEMENT  
PART 1. GENERAL PROVISIONS**

**R 299.4101 Definitions; A, B.**

Rule 101. As used in these rules:

- (a) "AASHTO" means American association of state highway and transportation officials.
- (b) "Act" means 1994 PA 451, MCL 324.101 to 324.90106, and known as the natural resources and environmental protection act.
- (c) "Act 299" means 1980 PA 299, MCL 339.101 to 339.2919, and known as the occupational code.
- (d) "Act 399" means 1976 PA 399, MCL 325.1001 to 325.1023, and known as the safe drinking water act.
- (e) "Active life" means the period of operation beginning with the initial receipt of solid waste and ending with the completion of closure activities in accordance with the act and these rules.
- (f) "Active portion" means that part of a facility or unit that has received or is *receiving wastes and that has not been partially or finally closed in accordance with these rules*. The active portion does not include areas that have interim cover which complies with R 299.4429(7) or a constructed unit or portion of a unit that has not received waste.
- (g) "Active work area" means the area which is or will be used for the storage, transport, or disposal of solid waste, methane gas, or leachate or in which heavy equipment is or will be used as part of the landfill operation. The active work area includes all of the following:
  - (i) The active portion.
  - (ii) Leachate collection and storage systems, exclusive of any of the following:
    - (A) Forcemains.
    - (B) Sewers.
    - (C) Enclosed manholes.
    - (D) Sewer hookups.
  - (iii) Gas collection and handling systems, exclusive of any of the following:
    - (A) Enclosed flares.
    - (B) Energy recovery facilities.
    - (C) Pipelines for gas and gas condensate associated with energy recovery facilities.
  - (iv) Heavy equipment storage and maintenance areas and borrow area in which heavy equipment is or will be used.
  - (v) Haul roads used for waste transport, exclusive of the entrance and scales.
  - (vi) Any on-site processing plant.
  - (vii) Other operations that involve the storage or disposal of solid waste or leachate. Operations that do not involve the storage or disposal of solid waste or leachate, such as any of the following, are not part of the active work area:
    - (A) Monitoring wells.

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- (B) Access roads.
- (C) Berms.
- (D) Screening.
- (E) Stormwater retention ponds.
- (F) Light duty maintenance buildings.
- (G) Office buildings.
- (h) "Applicant" means an owner or operator who has applied for a construction permit or operating license under part 115 of the act.
- (i) "Appropriate organization" means any organization that has demonstrated, or is demonstrating, a substantial interest in solid waste management.
- (j) "Aquifer" means a geologic formation, group of formations, or portion of a formation that is capable of yielding significant quantities of groundwater to wells or springs.
- (k) "Asbestos waste" means asbestos-containing waste material, as defined in 40 C.F.R. §61.141 under the national emission standard for asbestos. The definition of asbestos-containing waste material and related definitions are adopted by reference in R 299.4131.
- (l) "ASTM" means the American society for testing and materials.
- (m) "Attendant" means the individual who accepts solid waste at the entrance to the solid waste disposal area.
- (n) "Average daily flow rate" means the average flow, in gallons per acre per day, removed from a secondary collection system or leak detection during the last 3 months. The average daily flow rate shall be calculated monthly by averaging the flow rate for the current month with those from the preceding 2 months.
- (o) "Background" means the concentration or level of a substance which exists in the environment at or regionally proximate to a site and which is not attributable to any release at or regionally proximate to the site.  
History: 1982 AACCS; 1993 AACCS; 1999 AACCS; 2015 MR 5, Eff. March 11, 2015.

**R 299.4102 Definitions; C to E.**

Rule 102. As used in these rules:

- (a) "Closed unit" means a landfill unit at which final closure has been completed and certified in accordance with R 299.4317 or R 299.4449.
- (b) "Commercial waste" means all types of solid waste generated by stores, offices, restaurants, warehouses, and other nonmanufacturing activities, but does not include household waste from single residences, hazardous waste, and industrial wastes. Commercial waste includes solid waste from any of the following:
  - (i) Multiple residences.
  - (ii) Hotels and motels.
  - (iii) Bunkhouses.
  - (iv) Ranger stations.
  - (v) Crew quarters.
  - (vi) Campgrounds.
  - (vii) Picnic grounds.
  - (viii) Day-use recreation areas.
- (c) "Composite liner" means a system that consists of both of the following components:
  - (i) An upper component that consists of a flexible membrane liner which is installed in direct and uniform contact with the lower compacted soil component. The flexible membrane liner shall have a nominal thickness not less than 30 mils thick. For high-density polyethylene components, the flexible membrane shall have a nominal thickness not less than 60 mils.
  - (ii) A lower component that consists of any of the following soil layers:
    - (A) Compacted soil which is not less than 2 feet thick and which is in compliance with R 299.4913.
    - (B) A bentonite geocomposite liner that is in compliance with R 299.4914.
    - (C) An alternative soil layer that is approved under these rules.
- (d) "Composting" means the process by which biological decomposition of yard clippings or compostable material is carried out under controlled aerobic conditions and which stabilizes the organic fraction into a material that can easily and safely be stored, handled, and used in an environmentally acceptable manner. The presence of insignificant anaerobic zones within the composting material will not cause the process to be classified as other than composting.
- (e) "Composting facility" means a facility where composting of yard clippings or compostable material occurs using composting technology. Composting technology may include physical turning, windrowing, aeration, or other mechanical handling of organic matter.

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- (f) "Construction and demolition waste" means waste building materials, packaging, and rubble that results from construction, remodeling, repair, and demolition operations on houses, commercial or industrial buildings, and other structures. Construction and demolition waste includes trees and stumps which are more than 4 feet in length and 2 inches in diameter and which are removed from property during construction, maintenance, or repair. Construction and demolition waste does not include any of the following, even if it results from the construction, remodeling, repair, and demolition of structures:
- (i) Asbestos waste.
  - (ii) Household waste.
  - (iii) Corrugated containerboard.
  - (iv) Appliances.
  - (v) Drums and containers.
  - (vi) Any aboveground or underground tank and associated piping, except septic tanks.
  - (vii) Solid waste that results from any processing technique which renders individual waste components unrecognizable, such as pulverizing or shredding, unless the type and origin of such waste is known not to contain the wastes listed in paragraphs (i) to (vi) of this subdivision.
- (g) "Contiguous property" means the same or geographically contiguous property that may be divided by a public or private right-of-way. Pieces of property owned by the same person and connected by a right-of-way which the owner controls and to which the public does not have access are also contiguous.
- (h) "Designated planning agency" means a governmental unit or regional planning agency that is determined, under the act, to be responsible for the preparation of a solid waste management plan.
- (i) "Disease vectors" means any rodents, flies, mosquitoes, or other animals, including insects, that are capable of transmitting disease to humans.
- (j) "Disposal" means any of the following:
- (i) The discharge, deposit, injection, dumping, spilling, leaking, or placing of any solid waste into or on any land or water so that the solid waste or any constituent thereof may enter the environment or be emitted into the air or discharged into any waters, including groundwaters. Disposal includes the placement of solid waste in an open dump, landfill, or waste piles that are not exempt under R 299.4129(2) or R 299.4130.
  - (ii) The open burning or incineration of solid waste.
  - (iii) The processing of solid waste.
  - (iv) The storage or handling of solid waste at a solid waste transfer facility.
  - (v) The abandonment of solid waste in place of other disposal.
- (k) "Disposal area type" means 1 of the following types of disposal areas defined by the act and these rules:
- (i) Municipal solid waste landfill.
  - (ii) Industrial waste landfill.
  - (iii) Construction and demolition waste landfill.
  - (iv) Municipal incinerator ash landfill.
  - (v) Incinerator.
  - (vi) Processing plant.
  - (vii) Transfer facility.
  - (viii) Waste pile.
- (l) "Domestic well" means a well that is intended to furnish water to a single household for any beneficial use.
- (m) "Enforceable mechanism" means a legal method whereby the state, a county or municipal government, or a person can take action to guarantee compliance with an approved county solid waste management plan. Enforceable mechanisms include any of the following:
- (i) Contracts.
  - (ii) Intergovernmental agreements.
  - (iii) Laws.
  - (iv) Ordinances.
  - (v) Rules.
  - (vi) Regulations.
- (n) "Environmental contamination" means the release of a hazardous substance in a quantity that is or may become injurious to the environment or to the public health, safety, or welfare.
- (o) "Environmental interest group" means a nonprofit citizens' organization that has bylaws which support environmental enhancement or the conservation of Michigan's natural resources and that has an organization which does not directly reflect an economic interest of its members.

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- (p) "Existing disposal area" means any of the following:
  - (i) A disposal area that has been issued a construction permit under the act.
  - (ii) A disposal area that had engineering plans approved by the director before January 11, 1979.
  - (iii) An industrial waste landfill that was authorized to operate by the director or by court order before October 9, 1993.
  - (iv) An industrial waste pile that is located at the site of generation on October 9, 1993.
- (q) "Existing unit" or "existing landfill unit" means any landfill unit that receives solid waste as of October 9, 1993. Waste placement in existing landfill units shall be consistent with past operating practices or modified practices to ensure good management.

History: 1982 AACS; 1993 AACS; 1999 AACS; 2005 AACS; 2015 MR 5, Eff. March 11, 2015.

**R 299.4103 Definitions; F to L.**

Rule 103. As used in these rules:

- (a) "Facility" means a solid waste disposal area as defined in R 299.4106a.
- (b) "Floodplain" means the lowland and relatively flat areas which adjoin inland and coastal waters and which are inundated by the 100-year flood. The 100-year flood is a flood that has a 1% or greater chance of recurring in any given year or a flood of a magnitude equaled or exceeded once in 100 years on the average over a significantly long period.
- (c) "Floodway" means the channel of a watercourse and those portions of the floodplain adjoining the channel that are reasonably required to transmit the 100-year flood.
- (d) "Food processing wastes" means solid wastes that result from processing fruits and vegetables for preservation by freezing, drying, or canning.
- (e) "General public" means private citizens who are unlikely to incur a financial gain or loss greater than that of an average homeowner, taxpayer, or consumer as a result of any action taken by a planning committee.
- (f) "Geologist" or "qualified groundwater scientist" means a scientist or engineer who has received a baccalaureate or postgraduate degree in the natural sciences or engineering and who has sufficient training and experience in groundwater hydrology and related fields, as demonstrated by state registration, professional certifications, or completion of accredited university programs, to make sound professional judgments regarding groundwater monitoring, contaminant fate and transport, and corrective action.
- (g) "Geotextile" means any permeable material that is used with foundation, soil, rock, earth, or any other geotechnical engineering-related material as an integral part of a man-made structure or system.
- (h) "Groundwater" means water below the land surface in a zone of saturation.
- (i) "Groundwater level" means the surface of the groundwater in the uppermost aquifer in unconfined conditions or the bottom of the confining bed in confined conditions.
- (j) "Hazardous substance" means a hazardous substance as defined in part 201 of the act.
- (k) "Household waste" means any solid waste that is derived from single households, but does not include any of the following:
  - (i) Commercial waste.
  - (ii) Industrial waste.
  - (iii) Construction and demolition waste.
- (l) "Hydraulic conductivity" or "permeability" means the rate of flow of a liquid under a differential pressure through a material. The hydraulic conductivity of cohesive soils shall be determined using the methods specified in R 299.4920.
- (m) "Incinerator" means a device which is specifically designed for the destruction, by burning, of garbage or other combustible refuse or waste material, or both, and in which the products of combustion are emitted into the outer air by passing through a stack or chimney. For purposes of the act and these rules, the following devices are not incinerators:
  - (i) A thermal treatment unit that is designed solely for the purpose of destroying contaminants in soil.
  - (ii) Boilers, industrial furnaces, or power plants that burn site-separated material, source-separated material, or industrial waste as fuel.
  - (iii) A device that is used to incinerate medical waste and other waste from a facility that generates medical waste.
- (n) "Industrial waste" means solid waste which is generated by manufacturing or industrial processes or originates from an industrial site and which is not a hazardous waste regulated under part 111 of the act.
- (o) "Industrial waste landfill" means a landfill that is used for the disposal of industrial waste which has been characterized for hazard and which has been determined to be nonhazardous under part 111 of the act. An industrial waste landfill may accept industrial waste of different types and from different generators, but shall not accept hazardous waste generated by conditionally exempt small quantity generators, as defined under part 111 of the act.
- (p) "Landfill unit" means a discrete area of land which is permitted to receive waste for permanent disposal and which is not a waste pile. For purposes of these rules, the discrete area shall consist of all areas where waste is or will be contiguous,

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excluding any portion that has been closed under part 111 of the act. Contiguous portions may be separated by berms and may contain different liner or leachate collection designs and separate leachate collection systems, if waste in one portion is or will be in contact with waste in another portion. The boundaries of a landfill unit may be increased by lateral extensions consistent with the construction permit or plans approved by the department. A landfill unit may be any of the following:

- (i) A new unit.
- (ii) An existing unit.
- (iii) A preexisting unit.
- (iv) A closed unit.
- (q) "Lateral expansion" means a horizontal expansion of the solid waste boundary of a landfill beyond the limit established in a construction permit or engineering plans approved by the solid waste control agency before January 11, 1979.
- (r) "Lateral extension" means the extension of an existing unit within the solid waste boundary, but beyond that area constructed and licensed on October 9, 1993.
- (s) "Leachate" means liquid which has come in contact with, passed through, or emerged from, solid waste and which contains soluble, suspended, or miscible materials that are removed from the wastes.
- (t) "Lead acid battery" means a storage battery in which the electrodes are grids of lead oxides that change in composition during charging and discharging and in which the electrolyte is dilute sulfuric acid.
- (u) "Leak detection system" means the secondary collection system of an unmonitorable unit. The purpose of a leak detection system is to detect, collect, and remove leaks of hazardous substances at the earliest practicable time through all areas of the top liner likely to be exposed to waste or leachate during the active life and postclosure period.
- (v) "Lift" means a layer of placed material, including a layer of compacted clay in a landfill layer or cap, or a layer of waste in a sanitary landfill.
- (w) "Liquid waste" means any waste material that is determined to contain free liquids as defined by method 9095, the paint filter liquids test, as described in the publication entitled "Test Methods for Evaluating Solid Wastes, Physical-Chemical Methods" SW-846, which is adopted by reference in R 299.4133. For purposes of the act and these rules, liquid waste does not include industrial waste sludges that are disposed of at a location other than a type II landfill.

History: 1982 AACS; 1993 AACS; 1999 AACS; 2015 MR 5, Eff. March 11, 2015.

**R 299.4104 Definitions; M to R.**

Rule 104. As used in these rules:

- (a) "Medical waste" means waste as defined in section 13825 of 1978 PA 368, MCL 333.13825.
- (b) "Method detection limit" means the minimum concentration of a substance which can be measured and reported with 99% confidence, for which the analyte concentration is greater than zero, and which is determined from analysis of a sample in a given matrix that contains the analyte.
- (c) "Monitorable unit" means a landfill unit for which it is possible to determine the unit's impact on groundwater using groundwater monitoring. A unit remains a monitorable unit in any of the following circumstances:
  - (i) A unit's monitoring system detects hazardous substances above background, but the owner or operator demonstrates that the source of hazardous substances is not a landfill unit at or adjacent to the facility and that other substances that do not exceed background can be used as reliable indicators of leakage from the unit.
  - (ii) The unit is constructed over or adjacent to an open dump or another unit, but an impact on the groundwater has not been detected from the open dump or another unit.
  - (iii) The director waives groundwater monitoring for the unit.
- (d) "Municipal solid waste landfill" or "type II landfill" means a landfill which receives household waste or municipal solid waste incinerator ash, and which is not a land application unit, surface impoundment, injection well, or waste pile. A municipal solid waste landfill also may receive other types of solid waste, such as any of the following:
  - (i) Construction and demolition waste.
  - (ii) Sewage sludge.
  - (iii) Commercial waste.
  - (iv) Nonhazardous sludge.
  - (v) Hazardous waste from conditionally exempt small quantity generators.
  - (vi) Industrial waste. Such a landfill may be publicly or privately owned.
- (e) "New disposal area" means a disposal area that requires a construction permit under the act and includes all of the following:
  - (i) A disposal area, other than an existing disposal area, that is proposed for construction.
  - (ii) For landfills, a lateral expansion, vertical expansion, or other expansion that results in an increase in the design capacity of an existing disposal area.

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- (iii) For disposal areas other than landfills, an enlargement in capacity beyond that indicated in the construction permit or in engineering plans approved before January 11, 1979.
- (iv) For all disposal areas, an alteration of an existing disposal area to a different disposal area type than had been specified in the previous construction permit application or in engineering plans that were approved by the director or his or her designee before January 11, 1979.
- (f) "Natural soil barrier" means any combination of natural or recompacted soil which is not less than 10 feet thick and which consists predominantly of soils that have a unified soil classification of SC, ML, CL, CL/ML, or CH. A natural soil barrier may contain soil types other than SC, ML, CL, CL/ML, or CH if the anomalous soils are not hydraulically connected to the uppermost aquifer, do not extend beyond the solid waste boundary, and are not considered as part of the thickness determination.
- (g) "New unit" means any landfill unit that has not received solid waste before October 9, 1993.
- (h) "Nuisance" means conditions that unreasonably interfere with the enjoyment of life and property, such as noise, blowing debris, odors, vectors, or pest animals.
- (i) "Open burning" means either of the following:
  - (i) A fire from which the products of combustion are emitted directly into the outer air without passing through a stack or chimney.
  - (ii) The combustion of solid waste without controlling combustion air to maintain adequate temperature for efficient combustion, containment of the combustion reaction in an enclosed device to provide sufficient residence time and mixing for complete combustion, and control of the emission of the combustion products.
- (j) "Open dump" means a disposal area which is not licensed under the act and which is not otherwise authorized by the director.
- (k) "Operator" means the person who is in control of, or responsible for, the operation of a facility or part of a facility.
- (l) "Owner" means the person who owns a facility or part of a facility.
- (m) "Pile" means any noncontainerized accumulation of solid waste that is used for treatment or storage.
- (n) "Planning committee" means a committee that is established under the act to aid in the preparation of a county solid waste management plan.
- (o) "Practical quantitation limit" means the lowest level that can be reliably achieved within specified limits of precision and accuracy under routine laboratory conditions and based on all of the following:
  - (i) Quantitation.
  - (ii) Precision and accuracy.
  - (iii) Normal operation of the laboratory.
  - (iv) The practical need in a compliance monitoring program to have a sufficient number of laboratories available to conduct the analyses.
- (p) "Preexisting unit" means any landfill unit which is or was licensed under the act, but which does not receive waste after October 9, 1993.
- (q) "Processing" means changing the physical or chemical character of solid waste, by separation, treatment, or other methods, so as to make the waste or a constituent of the waste disposable or usable as a resource. The following activities do not constitute processing:
  - (i) Compaction.
  - (ii) Incineration, thermal treatment of contaminated soil, or burning waste as fuel, if these activities are permitted under part 55 of the act.
  - (iii) Metal processing by scrap dealers.
  - (iv) Industrial operations that use, reuse, or reclaim industrial waste, source-separated material, or site-separated material to make a raw material or new product.
  - (v) Separation of recyclable materials from small quantities of solid waste. A small quantity is not more than 2 tons per day or 60 tons per month.
  - (vi) Separation of recyclable material at a landfill.
  - (vii) The separation of small quantities of solid waste from source-separated material. The volume of solid waste removed shall be considered a small quantity if it is less than 10% of the total volume of material received.
  - (viii) Composting of yard clippings, if the requirements of section 11521 are met.
  - (ix) Composting of material other than yard clippings which is approved under R 299.4121 and which does not involve more than 500 cubic yards at any time. Composting facilities exceeding 500 cubic yards shall be licensed as processing plants.
  - (x) Shredding or chipping of trees, stumps, and brush.
  - (xi) Treatment of contaminated soil or other waste generated from the remediation of environmental contamination at the site of environmental contamination before disposal at a facility licensed under this part.

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(xii) The addition of small quantities of sorbent material to individual loads of waste within the active portion of a type II landfill.

(r) "Public meeting" means a regularly scheduled meeting of the designated planning agency.

(s) "Regulated hazardous waste" means a hazardous waste, as defined in R 299.9203, that is not excluded from regulation under R 299.9204 or that was not generated by a conditionally exempt small quantity generator as defined in R 299.9205.

(t) "Responsible individual" means an individual who is familiar with the requirements of the act and these rules as they relate to the daily operation and maintenance of the solid waste disposal area where he or she is employed and who has the capability and the authority to make decisions regarding the daily operation and maintenance of that disposal area which are necessary to comply with the act and these rules.

(u) "Runoff" means any rainwater, leachate, or other liquid that drains over land from any part of a facility.

(v) "Run-on" means any rainwater, leachate, or other liquid that drains over land onto any part of a facility.

History: 1982 AACCS; 1993 AACCS; 1999 AACCS; 2015 MR 5, Eff. March 11, 2015.

**R 299.4105 Definitions; S to W.**

Rule 105. As used in these rules:

(a) "Sanitary landfill" means a type of disposal area consisting of 1 or more landfill units and the active work areas associated with these units. Sanitary landfills shall be classified as 1 of the following types of landfills:

(i) A type II landfill, which is a municipal solid waste landfill and includes a municipal solid waste incinerator ash landfill.

(ii) A type III landfill, which is any landfill that is not a municipal solid waste landfill or hazardous waste landfill and includes all of the following:

(A) Construction and demolition waste landfills.

(B) Industrial waste landfills.

(C) Landfills which accept waste other than household waste, municipal solid waste incinerator ash, or hazardous waste from conditionally exempt small quantity generators.

(b) "Saturated zone" or "zone of saturation" means that part of the earth's crust in which all voids are filled with water.

(c) "Scavenging" means the uncontrolled picking of materials from solid waste.

(d) "Secondary collection system" means the liquid collection and removal system between the liners of a multiple liner system in a landfill cell. In the case of an unmonitorable unit, the secondary collection system is also a leak detection system.

(e) "Sludge" means any solid or semisolid waste that is generated from a municipal, commercial, or industrial wastewater treatment plant, water supply treatment plant, or air pollution control facility. "Sludge" also includes any other semisolid industrial waste.

(f) "Specific site" means an area within a municipality or municipalities.

(g) "Sole-source aquifer" means those aquifers that are designated under section 1424(e) of the federal safe drinking water act of 1974, Public Law 93-523, 42 U.S.C. §300h et seq.

(h) "Solid waste boundary" means the outermost perimeter of the solid waste (projected in the horizontal plane) as it would exist at completion of the sanitary landfill and as authorized in a construction permit or in engineering plans approved for the landfill unit by the solid waste control agency before January 11, 1979.

(i) "Solid waste control agency" means the certified health department that has jurisdiction in the county or, in the absence of a certified health department, the department.

(j) "Solid waste management industry" means any of the following:

(i) An individual or organization that derives a substantial portion of its income from the collection, transportation, or disposal of solid waste.

(ii) A manufacturing industry that collects, transports, and disposes of solid waste that is generated incidental to its operation.

(iii) A unit of government or subdivision thereof that collects, transports, or disposes of solid waste within its political boundary when 4 members, as defined in paragraphs (i) and (ii) of this subdivision, cannot be found.

(k) "Solid waste management system" means a set of procedures that provides for the collection, transportation, separation, recycling, recovery, and disposal of solid waste.

(l) "Speculative accumulation" means the storage of material intended for recycling or reuse at a site for a period of over 1 year, or for low-hazard industrial waste accumulated at the site of generation, a period of 3 years. A material is not accumulated speculatively, however, if the person who accumulates it can show that the material can be recycled into marketable raw materials or new products and that, during the period, the amount of material that is recycled or that is transferred to a different site for recycling equals not less than 75%, by weight or volume, of the amount of material that was accumulated at the beginning of the period.

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- (m) "Standard industrial classification number" means the number assigned to an industry by the United States office of management and budget and contained in the standard industrial classification manual. The manual is adopted by reference in R 299.4132.
  - (n) "Statistically significant increase" means a verified increase in groundwater concentration for a given constituent for which statistical analysis is required in the approved hydrogeological monitoring plan that is inconsistent with background concentrations given chance expectations for the site as a whole.
  - (o) "Sump" means any lined pit, manhole, or reservoir that serves to collect liquids drained from a leachate collection and removal system, secondary collection system, or leak detection system.
  - (p) "Surface water" means a body of water that has its top surface exposed to the atmosphere and includes a flowing body, a pond, or a lake, except for drainageways and ponds that are used solely for wastewater conveyance, treatment, or control.
  - (q) "Synthetic liner" or "flexible membrane liner" means very low-permeability synthetic membrane liners or barriers that are used with any geotechnical engineering-related material as an integral part of a man-made project, structure, or system.
  - (r) "Total inorganic nitrogen" means the sum of ammonia-nitrogen, nitrate-nitrogen, and nitrite-nitrogen.
  - (s) "TSCA" means the toxic substances control act, 15 U.S.C. §2601 et seq.
  - (t) "Unmonitorable unit" means a landfill unit that is not a monitorable unit.
  - (u) "Uppermost aquifer" means the geologic formation which is nearest to the natural ground surface and which is an aquifer and includes lower aquifers that are hydraulically interconnected with this aquifer within the facility's property boundary.
  - (v) "Vertical expansion" means the landfilling of solid waste above the elevations indicated in the construction permit or in engineering plans approved for the landfill unit by the solid waste control agency before January 11, 1979. Increases in elevation approved by the director are not new disposal areas if the volume of waste to be disposed of is not expanded beyond the volume previously approved and if the expansion is in compliance with the act and these rules.
  - (w) "Wetland" means the areas defined as wetlands in part 303 of the act.
- History: 1982 AACS; 1993 AACS; 1999 AACS; 2005 AACS; 2015 MR 5, Eff. March 11, 2015.

**R 299.4106**

**Source:** 1982 AACS.

**R 299.4106a Definitions of terms used in act.**

Rule 106a. As used in the act:

- (a) "Approved hydrogeologic monitoring program" means a monitoring program which is approved by the director and which is in compliance under R 299.4905.
- (b) "Compost" means organic matter from yard clippings or compostable materials that have undergone biological decomposition by composting, that have been stabilized to a degree that it is potentially beneficial to plant growth without creating a nuisance, and that are used or sold for use as a soil amendment, artificial topsoil, or growing medium amendment or for other similar uses.
- (c) "Conversion" means the process by which any of the following is recycled into marketable raw materials or new products:
  - (i) Glass.
  - (ii) Metal.
  - (iii) Wood.
  - (iv) Paper products.
  - (v) Plastics.
  - (vi) Rubber.
  - (vii) Textiles.
  - (viii) Garbage.
  - (ix) Yard clippings.
  - (x) Other materials approved by the department.Conversion includes the composting of yard clippings and compostable material in accordance with these rules, but does not include the speculative accumulation of the materials specified in this subdivision.
- (d) "Establish a disposal area" as used in the act, means to create a new disposal area, as defined in these rules.
- (e) "Modification" means a significant change in the approved plans for a landfill that does not constitute an upgrading, including any of the following:
  - (i) An increase in the final elevation of a landfill unit that does not result in an increase in design capacity or a change in the solid waste boundary. An increase in the final elevation of a landfill which is necessary to comply with changes in the act or these rules, but which does not result in a vertical expansion, is not a modification.

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- (ii) A reduction in the protection provided by a liner or cover system.
  - (iii) Other significant changes in design. The substitution of one equivalent type of material for another in a landfill design shall not be considered significant, if the change is approved by the department.
  - (f) "New products" means marketable consumer goods produced from site- separated or source-separated material. New products shall not be used in a manner constituting disposal, unless the new products are any of the following:
    - (i) Inert materials.
    - (ii) Compost produced from yard clippings.
    - (iii) Compostable material.
    - (iv) Material applied to the land for agricultural or silvicultural use in a manner consistent with the act and these rules.
  - (g) "Operating landfill," as used in section 11525a of the act, means a landfill which is either open or closed, but which has not completed the postclosure period specified in the act.
  - (h) "Raw materials" means materials that are returned for reuse to the original industry which produced the material, that are sold for use in an industrial process to make new products, or that are used as fuel in a unit permitted to burn the material as fuel under part 55 of the act.
  - (i) "Rubber" means crumb rubber or ground tires that does not contain steel and fiber.
  - (j) "Scrap" means metal that is a recyclable material. Used appliances shall not be considered scrap unless capacitors or other parts that may contain polychlorinated biphenyls have been removed and disposed of in compliance with the act and TSCA, if applicable.
  - (k) "Solid waste disposal area" means the disposal area that is approved in a construction permit or engineering plans approved by the solid waste control agency before January 11, 1979, and all contiguous property that is owned by the same person which has been approved for the disposal of solid waste in other construction permits.
  - (l) "Upgrading," as used in section 11510 of the act, means any of the following:
    - (i) The installation of thicker or additional liners in the bottom or final cover of a landfill.
    - (ii) The installation of gas recovery systems at a landfill.
    - (iii) The installation of equipment to separate recyclable material at a landfill.
    - (iv) A restriction in the type of waste that is received at a landfill beyond that previously approved.
    - (v) Other improvements to a disposal area that are approved by the director.
- History: 1993 AACS; 1999 AACS; 2015 MR 5, Eff. March 11, 2015.

**R 299.4107**

**Source:** 1998-2000 AACS.

**R 299.4108**

**Source:** 1998-2000 AACS.

**R 299.4109**

**Source:** 1982 AACS.

**R 299.4110 "Other wastes regulated by statute" defined.**

Rule 110. As provided by section 11506 of the act, the following wastes are "other wastes regulated by statute" and are exempt from regulation as solid wastes under part 115 of the act:

- (a) Hazardous waste regulated under part 111 of the act.
- (b) Waste which is contaminated by polychlorinated biphenyls and which is disposed of in a facility that is licensed under TSCA.
- (c) Drilling muds, land clearing debris, and other wastes associated with the exploration, development, or production of crude oil, natural gas, or geothermal energy, when managed within the same field where it was generated and where such management is authorized by the supervisor of wells in a permit or order issued under part 615 of the act.
- (d) Dredgings that are approved by the department for disposal under either of the following provisions:
  - (i) By issuance of a permit issued under part 301 or part 325 of the act authorizing the disposal, if dredgings of more than 300 cubic yards that are removed from either an area of concern identified by the international joint commission or an area adjacent to or immediately downstream of a facility regulated under part 201 of the act are evaluated for contamination and, if contaminated, are managed in a manner consistent with part 201 of the act. To evaluate dredgings for contamination, a person shall do either of the following:
    - (A) Analyze for PCB's, polynuclear aromatic hydrocarbons, and the metals identified in table 101. Dredgings shall not be considered contaminated if they meet the criteria for inert material specified in section 11553(5) or (6).

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- (B) Instead of analyses, demonstrate that the particle sizes of the dredgings are such that 95% or more of the particles will be retained on a No. 200 sieve.
- (ii) by department approval of a finding of no significant impact prepared under the national environmental policy act of 1969, §42 U.S.C. 4321 et seq.
- (e) Tires that are managed in compliance with part 169 of the act.
- (f) Animals that are composted or disposed of in accordance with 1982 PA 239, MCL 287.651 to 287.683.
- (g) Earth overburden, rock, lean ore, and iron ore tailings that are regulated under part 631 of the act.
- (h) Septage waste which is regulated under part 117 of the act and which is disposed of in a land application unit.
- (i) The following waste that is regulated under part 31 of the act:
- (i) Liquid waste that is disposed of in accordance with a permit or order issued under part 31 of the act, except for sludges or residues that are generated from the disposal.
- (ii) Sludge that is disposed of in a land application unit under a residuals management plan which is approved under part 31 of the act.
- (j) The following waste, at the point that it is regulated under part 55 of the act:
- (i) Wood and stumps that are burned in accordance with part 55 and part 515 of the act.
- (ii) Medical waste that is burned in a unit which is permitted or licensed to burn the waste under part 55 of the act. Medical waste that is disposed of at a location other than at a unit as specified in this paragraph is not exempt from part 115 of the act and these rules.
- (iii) Contaminated soil that is treated in a thermal treatment unit which is permitted under part 55 of the act, if the soil is contained at the treatment site so that the operation does not expose the soil to the atmosphere and the elements. Residues from the treatment shall be disposed of under a plan that is approved by the department.
- (iv) Chipped tires, creosote railroad ties, and industrial waste that is burned as fuel in a boiler, industrial furnace, or power plant which is permitted under part 55 of the act, to burn the waste as fuel.
- (k) Contaminated soil or other waste that is generated from the remediation of environmental contamination, and that is allowed to be disposed of at the site of environmental contamination or at other property which is owned by the responsible party under a remedial action plan that is approved under part 201 or part 213 of the act.
- (l) Solid waste in open dumps which did not receive waste after October 9, 1991, and which receive final cover pursuant to either of the following provisions:
- (i) A remedial action plan that is approved under part 201 of the act.
- (ii) A grant under part 191 or part 195 of the act.
- History: 1993 AACCS; 1999 AACCS; 2015 MR 5, Eff. March 11, 2015.

**R 299.4111 Nondetrimental material managed for agricultural or silvicultural use; conditions for exemption as solid waste.**

- Rule 111. (1) A person shall not apply sludges, ashes, or other solid waste to the land without having obtained a license under the act, unless the director has approved a plan for managing the wastes as nondetrimental materials that are appropriate for agricultural or silvicultural use or has otherwise authorized the application under part 31 of the act.
- (2) A plan for managing nondetrimental materials that are appropriate for agricultural or silvicultural use shall contain all of the following information:
- (a) Analytical data that is required under R 299.4118a to characterize the material.
- (b) Additional characteristics of the material applicable to its proposed use. Wastes that are proposed for use as fertilizer shall be characterized by representative sampling and analysis for all of the following using analytical procedures that are specified by the EPA publication entitled "Test Methods for the Evaluation of Solid Waste, Physical/Chemical Methods", SW-846, 3rd edition, which is adopted by reference in R 299.4133, or the document entitled "Standard Methods for the Examination of Water and Wastewater," 19th edition, which is adopted by reference in R 299.4139:
- (i) Percent dry solids.
- (ii) Total kjeldahl nitrogen.
- (iii) Total ammonia nitrogen.
- (iv) Nitrate nitrogen.
- (v) Total phosphorus.
- (vi) Specific gravity.
- (vii) Chemical oxygen demand.
- (viii) Five-day biological oxygen demand.
- (ix) pH.
- (c) All of the following information to characterize the soil types at the application area or areas:

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- (i) Soil type.
- (ii) Soil pH.
- (iii) Lime index.
- (iv) Cation exchange capacity.
- (v) Proposed nutrient application rates.
- (d) The name and address and written approval of the titleholder of the land or lands.
- (e) The proposed application rate.
- (f) The proposed method of application, including the equipment to be used.
- (g) The method and frequency of soil tilling to be employed.
- (h) The type of vegetation to be maintained, and how it will be managed.
- (3) The director shall approve a plan that is submitted under this rule if he or she finds that application of the material to the land will serve as an effective fertilizer or soil conditioner or serve another beneficial use and will be applied to the soil at an agronomic rate, but will not violate part 31 or part 55 of the act or any other state law and will not create a nuisance.
- (4) The director shall approve or deny a plan that is submitted under this rule within 120 days of receiving a plan that contains the information specified in subrule (2) of this rule. The director shall impose any conditions on a plan that are necessary to protect human health and the environment.

History: 1993 AACS; 1999 AACS; 2015 MR 5, Eff. March 11, 2015.

**R 299.4112**

**Source:** 1993 AACS.

**R 299.4113**

**Source:** 2014 AACS.

**R 299.4114**

**Source:** 2014 AACS.

**R 299.4115**

**Source:** 2014 AACS.

**R 299.4116**

**Source:** 2014 AACS.

**R 299.4117 Criteria for designating inert materials appropriate for specific reuse instead of virgin material.**

Rule 117. (1) A person may petition the director to designate a solid waste as an inert material appropriate for a specific type of reuse instead of virgin material.

(2) The director shall approve a petition pursuant to this rule if the petition demonstrates any of the following:

- (a) The material meets the criteria of section 11553(5) or (6).
- (b) The material does not pose a greater hazard to human health and the environment during reuse than the virgin material that it replaces when used in the following manner:
  - (i) As a component of concrete, grout, mortar, or casting molds.
  - (ii) When used as a raw material in asphalt for road construction.
  - (iii) As aggregate, road, or building material that, in ultimate use, will be stabilized or bonded by cement, limes, or asphalt.
  - (iv) In other uses that are approved by the director.

(3) A petition to designate a material as inert for specific reuse shall contain the information specified in R 299.4118a for all of the following:

- (a) The waste material itself.
- (b) The product, if any, that contains the waste as a component.
- (c) Either or both of the following, if necessary for comparison with the waste or waste product:
  - (i) The raw material that the waste replaces.
  - (ii) The product, if any, that contains raw material other than waste.

(4) A person may conduct a pilot project on the suitability of using low-hazard industrial waste for a specific reuse if all of the following conditions are met:

- (a) The amount used is not more than 100 tons.
- (b) The person notifies the director or his or her designee before use.

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- (c) The person submits a report on the reuse, as specified in subrule (6) of this rule.
  - (d) The person verifies that the storage of low-hazard industrial waste awaiting the pilot project has not resulted in environmental contamination.
  - (5) A person may petition the director to designate a solid waste that is not in compliance with the definition of a low-hazard industrial waste as an inert material for the purpose of conducting a pilot project on the suitability of the waste for a specific reuse. The director shall approve the petition if both of the following conditions are met:
    - (a) The petition includes a detailed description of the proposed pilot project, including all of the following:
      - (i) The location of the project.
      - (ii) A description of the waste, including a characterization that complies with the provisions of R 299.4118a.
      - (iii) The volume of waste to be used.
      - (iv) The nature of the reuse, and a description of any processes that are required to convert the waste to a product.
      - (v) The procedures for conducting all testing on the final product to determine compliance with the provisions of subrule (1) of this rule which ensure representative sampling of the final product.
      - (vi) The proposed completion date.
    - (b) The director determines that the project does not pose an unacceptable risk of environmental contamination.
  - (6) A person who conducts a pilot project pursuant to the provisions of this rule shall submit a final report to the director or his or her designee within 90 days of the completion date that describes the results of the project.
- History: 1993 AACCS; 2015 MR 5, Eff. March 11, 2015.

**R 299.4118**

**Source:** 2014 AACCS.

**R 299.4118a Petitions to classify wastes.**

- Rule 118a. (1) A person may petition the director to designate a material as beneficial use by-product for 1, 2, 4, or 5, inert material, a source separated material, a site separated material, a low hazard industrial waste, another material that could be approved by the department under part 115, nondetrimental or recycled material pursuant to R 299.4111, inert material appropriate for specific reuse pursuant to R 299.4117 or a compostable material pursuant to R 299.4121.
- (2) A petition to classify a material and its use shall include all of the following information:
    - (a) The name and site address of the facility that generates or uses the material.
    - (b) The facility contact person and phone number.
    - (c) The general description of the material for which the petition is submitted, including all of the following:
      - (i) A description of the process that is used to produce the material, including a schematic diagram of the process and a list of raw materials that are used in the process.
      - (ii) Documentation that the material is not a hazardous waste, as defined in part 111 of the act and the administrative rules promulgated under part 111 of the act.
      - (iii) The proposed use or disposal method for the material.
    - (d) Analytical testing on a representative number of samples consistent with its use. Four samples shall be considered to be the minimum number of samples that must be tested and may increase depending on the variability of the sample results. If a hazardous substance is reported to be present in a sample at concentrations above the classification criteria of these rules, a person may demonstrate that the data are not statistically significant, using 1 of the methods specified in R 299.4908. Sampling shall be done consistent with the requirements contained in the EPA document entitled "Test Methods for the Evaluation of Solid Waste, Physical/Chemical Methods," SW-846 3<sup>rd</sup> edition, which is adopted by reference in R 299.4133; 1 or more peer-reviewed standards developed by a national or international organization such as ASTM International, 1 or more standards approved by the department or EPA, or any other method approved by the department that more accurately simulates mobility. The samples shall be tested as relevant for the determination for total concentrations, leachable concentrations, or both, of any hazardous substance that the person has knowledge or has reason to believe could be present in the material at a level of concern.
    - (e) Chain of custody.
    - (f) Quality control/quality assurance information from the testing lab.
    - (g) In lieu of submitting information required in subdivisions (d) to (f) of this subrule, a petitioner may demonstrate that a material is a beneficial use by-product by submitting relevant and appropriate documentation for a determination under MCL 324.11553(4).
    - (h) In lieu of submitting information required in subdivisions (d) to (f) of this subrule, a petitioner may demonstrate that a material is an inert material by submitting relevant and appropriate documentation for a determination under MCL 324.11553(6).

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(i) In lieu of submitting information required in subdivisions (d) to (f) of this subrule, a petitioner may demonstrate that a material is source separated in accordance with MCL 324.11506(6)(k) by submitting relevant and appropriate documentation for a determination under MCL 324.11553(8).

(j) In lieu of submitting information required in subdivisions (d) to (f) of this subrule, a petitioner may demonstrate that a material is site separated material by submitting relevant and appropriate documentation consistent with MCL 324.11505(9).

(k) In lieu of submitting information required in subdivisions (d) to (f) of this subrule, Petitioner may demonstrate that a material fits a requested classification recognized in another provision of part 115, MCL 324.11501 et seq., which allows for approval by the department by submitting relevant and appropriate documentation consistent with the cited provision.

History: 2015 MR 5, Eff. March 11, 2015.

**R 299.4119**

**Source:** 2014 AACS.

**R 299.4120**

**Source:** 2014 AACS.

**R 299.4121 Petitions for use of solid waste other than yard clippings as compost.**

Rule 121. (1) A person shall not use a solid waste, other than yard clippings, as compost, unless the director approves the waste as a separated material appropriate for such use pursuant to the provisions of this rule.

(2) A person who proposes to separate a waste for use as compost shall file a petition with the director pursuant to the provisions of R 299.4118a. To characterize such compost, the petitioner shall include all of the following information in the petition:

(a) The type of waste and its potential for creating a nuisance or environmental contamination.

(b) Compost maturity, as determined by a reduction of organic matter during composting. Organic matter shall be determined by measuring the volatile residues content using EPA method 160.4 or another method that is approved by the director.

(c) Foreign matter content, as determined by drying a sample of compost using EPA method 160.3 and by passing a weighed sample of the dried compost through a 14- or 6-millimeter screen. The material remaining on the screen shall be separated and weighed. The weight of the separated foreign matter divided by the weight of the total sample multiplied by 100 shall be the foreign matter content.

(d) Particle size, as determined by a sieve analysis.

(3) The director shall approve a material for use as compost if the person who proposes such use demonstrates all of the following:

(a) The material has or will be converted to compost under controlled conditions at a composting facility.

(b) The material will not be a source of environmental contamination or cause a nuisance.

(c) Use of the compost material will be done at agronomic rates.

(4) EPA methods 160.3 and 160.4 are contained in the document entitled "Methods for Chemical Analysis of Water and Waste, EPA-600," March, 1979 edition, and are adopted by reference in R 299.4138.

History: 1993 AACS; 2015 MR 5, Eff. March 11, 2015.

**R 299.4122**

**Source:** 2014 AACS.

**R 299.4123**

**Source:** 2014 AACS.

**R 299.4124**

**Source:** 2014 AACS.

**R 299.4125**

**Source:** 2014 AACS.

**R 299.4126**

**Source:** 2014 AACS.

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**R 299.4127**

**Source:** 2014 AACS.

**R 299.4128 Open dumping and open burning prohibited.**

Rule 128. (1) A person shall not dispose of solid waste in an open dump, except as provided in the act.

(2) Solid waste from an individual's own household or from the planting of privately owned farmland shall be considered a hazard to health and shall not be disposed of in an open dump upon the individual's own land, as provided in section 11512 of the act, if it is any of the following:

- (a) Asbestos waste.
  - (b) A hazardous commercial chemical product.
  - (c) A used battery.
  - (d) A pesticide container.
  - (e) Waste from the demolition of the residence, except for components that are listed as inert material in section 11504(2).
- (3) Open burning of solid waste is prohibited, except as provided in subrules (4), (5), and (6) of this rule.
- (4) If not prohibited by local ordinance, an individual is not prohibited by the act and these rules from burning solid waste from the individual's own household upon the individual's own land if both of the following conditions are met:
- (a) The burning does not create a nuisance and is otherwise in compliance with part 55 of the act and the administrative rules promulgated under part 55 of the act.
  - (b) The burning is conducted in an approved container constructed of metal or masonry that has a metal covering device that does not have openings larger than  $\frac{3}{4}$  inch.
- (5) A person may burn waste for energy recovery in a facility other than an incinerator under R 299.4110.
- (6) A person may burn trees, logs, brush, and stumps under R 299.4110.
- (7) The open burning of grass clippings or leaves, or both, is prohibited in any municipality that has a population of 7,500 or more persons under section 11522 of the act, unless specifically authorized by local ordinance. A municipality shall report an open burning ordinance to the department within 30 days of the enactment of the ordinance.

History: 1993 AACS; 1999 AACS; 2015 MR 5, Eff. March 11, 2015.

**R 299.4129**

**Source:** 1999 AACS.

**R 299.4130**

**Source:** 1993 AACS.

**R 299.4131**

**Source:** 1999 AACS.

**R 299.4132**

**Source:** 1999 AACS.

**R 299.4133**

**Source:** 1999 AACS.

**R 299.4134**

**Source:** 1999 AACS.

**R 299.4135**

**Source:** 1999 AACS.

**R 299.4136**

**Source:** 1999 AACS.

**R 299.4137**

**Source:** 1999 AACS.

**R 299.4138**

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**Source:** 1993 AACS.

**R 299.4139**

**Source:** 1999 AACS.

**R 299.4140**

**Source:** 1999 AACS.

**R 299.4141**

**Source:** 1999 AACS.

**PART 2. CERTIFICATION OF LOCAL HEALTH DEPARTMENTS**

**R 299.4201 Certification procedure.**

Rule 201. (1) By July 1 of each year, an uncertified city, county, or district department of health that desires to be considered for certification shall file an application on a form provided by the department.

(2) An application request shall be accompanied by a document that contains the proposed methods, budget, and staffing to be used to carry out the performance requirements of R 299.4203 to R 299.4206. The document shall list the classification of designated authorized representatives to participate in the program and shall include all other pertinent information that may be deemed necessary by the department.

(3) The minimum qualifications for individuals who have direct supervisory responsibility for the solid waste management program are as follows:

(a) A baccalaureate degree or equivalent experience and training in any of the following:

(i) Sanitary science.

(ii) Public health.

(iii) Engineering.

(iv) Physical, chemical, or biological science.

(v) Natural resources.

(b) Two years of experience in environmental regulatory programs.

(4) The application and related documents shall be used by the director to determine certification eligibility and for negotiation of the performance contract required pursuant to the provisions of R 299.4802.

(5) The department shall, within 2 months after a complete certification application has been submitted, determine the eligibility of the applicant. The applicant shall be notified, in writing, of the department's determination. A health department shall not be certified until the performance contract is signed by the director and the eligible health department. However, health departments that have received certification the year before shall continue to be certified unless otherwise notified pursuant to the provisions of R 299.4202.

(6) Health department certification shall be reviewed each year by the department. Updated information that is relative to certification shall be provided by the health officer, as appropriate, or upon request of the department.

(7) After a determination has been made on the eligibility of a health department for certification, the department and the appropriate local governing entity shall enter into a 1-year contract that establishes the terms under which the health department will be reimbursed for personnel costs. The contract shall include the negotiated grant amount based on the rates for the area and work hours needed to carry out the program specified in R 299.4203 to R 299.4206.

History: 1982 AACS; 1993 AACS; 2015 MR 5, Eff. March 11, 2015.

**R 299.4202**

**Source:** 1982 AACS.

**R 299.4203 Certified health department; performance requirements; solid waste disposal areas.**

Rule 203. (1) Except as provided in subrules (2) and (3) of this rule, a certified health department shall do all of the following:

(a) At the request of an applicant, provide an advisory analysis of each proposed disposal area within 15 working days of the request. An advisory analysis shall include a site inspection and written report to the applicant regarding the preliminary feasibility of the disposal area as described in R 299.4901. A copy of the advisory analysis shall be provided to the

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department. Nothing in the advisory analysis shall be considered to constitute an approval or denial for a construction permit or operating license.

- (b) Receive all construction permit and operating license application forms and documents.
  - (c) Immediately forward each application package to the department for review.
  - (d) Upon the receipt of a construction permit application, obtain information for the proper notification of all parties that is required by section 11510 of the act.
  - (e) Assist the department in arranging newspaper publication of the required public notice in the vicinity of the proposed undertaking. The certified health department's obligation for such costs shall not be more than ½ of the construction permit application fee that is remitted by the applicant under the act.
  - (f) Provide a location where the complete construction permit application may be reviewed by the public.
  - (g) Assist the department in conducting all public hearings relative to an application for a construction permit.
  - (h) Conduct a site inspection upon receipt of an operating license application to determine compliance with the act and these rules.
  - (i) Submit a written report of the site inspection and a recommendation for or against license issuance to the department within 15 working days of receipt of the operating license application package. The applicant shall be sent a copy of the recommendation.
  - (j) Provide the department and the licensee with written recommendations regarding appropriate action on existing facilities, which may include closure, remedial measures, and a compliance schedule.
  - (k) File an instrument that is prepared by the applicant in the office of the register of deeds of the county in which a sanitary landfill is located that imposes a restrictive covenant upon the land involved at the time of licensing as required by section 11518 of the act and provide the department with a copy of the recorded instrument or a receipt that verifies the proper filing.
  - (l) Provide a minimum of quarterly, routine, written inspection reports of all disposal areas, unless a more frequent inspection schedule is established by the department. A written notice of deficiencies, together with requirements for their correction, shall be provided to the licensee. Copies of all inspection reports and correspondence shall be provided to the department.
  - (m) Follow-up inspections of disposal areas shall be conducted when necessary.
  - (n) Maintain a complete file of transactions relative to the inspection report activities for each disposal area.
  - (o) Investigate and document all complaints on solid waste disposal areas and dumps. Reports of actions taken shall be provided to the department.
  - (p) Notify the department of any unresolved problems or violations that continue beyond 90 days of the health department's investigations of complaints.
  - (q) Be willing and prepared to present documentation and testimony at show cause hearings, formal administrative hearings, or at any other informal or formal legal proceedings.
  - (r) In cooperation with the department, issue cease and desist orders for unlicensed waste disposal areas or dumps. The department shall be provided with copies of any cease and desist orders that may be issued.
  - (s) Program enforcement and review responsibilities shall be uniformly applied to the public and private sectors.
  - (t) Assist in developing and encouraging environmentally sound methods of disposal, including resource recovery and conservation.
- (2) A health department that employs a qualified geologist and engineer may apply to the department to review all construction permits and operating license applications for completeness and content. A health department that is certified to conduct a review shall do all of the following:
- (a) Review each construction permit and operating license application for completeness and notify the applicant, within 15 working days of receipt of the application, as to the completeness of the application.
  - (b) Provide the department with a copy of all completeness reviews.
  - (c) Review complete construction permit applications for compliance with the act and these rules and forward a review report and recommendation for or against issuance of a permit to the department within 45 calendar days of receipt of the complete application package.
  - (d) Review complete operating license applications, including bonds and construction certification documents, for compliance with the act and these rules and forward a review report and recommendation for or against issuance of a license to the department within 15 working days of receipt of the complete application package.
  - (e) Conduct inspections to verify that construction of a disposal area is proceeding in accordance with approved plans.
- (3) A health department may apply to the department for authorization to conduct other activities that are not specified in subrules (1) and (2) of this rule.

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(4) A certified health department is not responsible for inspecting or reviewing applications for disposal areas that are owned or operated by the county within the certified health department's jurisdiction. The department is responsible for conducting the inspections.

(5) A certified health department shall not authorize changes to engineering plans that are approved by the director.

History: 1982 AACS; 1993 AACS; 1999 AACS; 2015 MR 5, Eff. March 11, 2015.

**R 299.4204**

**Source:** 1982 AACS.

**R 299.4205**

**Source:** 1982 AACS.

**R 299.4206**

**Source:** 1982 AACS.

**PART 3. TYPE III LANDFILLS**

**R 299.4301**

**Source:** 1999 AACS.

**R 299.4302 Existing industrial waste landfills.**

Rule 302. (1) The owner and operator of an industrial waste landfill that has been issued a permit or license under the act on the effective date of these rules may construct, operate, and close the disposal area in accordance with existing permits, licenses, and approved plans if the owner and operator do all of the following:

- (a) Comply with the performance standards specified in R 299.4306.
- (b) Comply with other portions of the act and these rules applicable to existing disposal areas.
- (c) Not later than October 1, 1995, revise existing hydrogeologic monitoring plans, as necessary, to comply with R 299.4905 and submit the plans to the director with the first operating license application that is applied for after this date.
- (d) For any unit which is a possible source of groundwater contamination or which is an unmonitorable unit, submit a response action plan under R 299.4319.
- (e) Comply with the waste restrictions specified in subrule (2) of this rule.

(2) To be disposed of in an industrial waste landfill that is an existing disposal area, all wastes, except for construction and demolition waste, trees, and stumps, shall have been subjected to the leaching test protocol specified in R 299.4311 and have been approved for disposal at the specific landfill based on a determination by the solid waste control agency that the disposal has a minimal potential for groundwater contamination. Waste that is approved for disposal in an industrial solid waste landfill which is an existing disposal area shall be retested annually, or on a more frequent schedule as specified by the solid waste control agency, to confirm that disposal of the waste presents a minimal potential for groundwater contamination. The owner or operator of an existing industrial waste landfill may petition the director to waive the tests specified in R 299.4311 for new waste or waste previously approved. The director shall approve such a petition if either of the following conditions is met:

(a) The waste is listed as a low-hazard industrial waste or meets the criteria for a low-hazard industrial waste specified in section 11504(7) and the design of the landfill meets the criteria for a low-hazard industrial waste landfill specified in R 299.4307(3)(a) or (4).

(b) The petition demonstrates that the location or design of the landfill minimize the potential for groundwater contamination, and that the concentration of constituents in the waste is not a significant factor.

(3) The owners and operators of existing industrial waste landfill units which are not licensed under the act as type III landfills on the effective date of these rules, but which receive waste under other authority, shall notify the director of the nature and extent of the disposal area not less than 6 months after the effective date of these rules. At any time after such date, the owner or operator of an industrial waste landfill specified in this subrule may be required, by the director, to submit an operating license application. An owner and operator that are required to submit an operating license application under this rule shall be allowed not less than 6 months to submit the application. An operating license application shall include all of the following information:

(a) A waste characterization that is in compliance with R 299.4118a.

(b) A hydrogeologic report and monitoring program that is sufficient to comply with R 299.4904 and R 299.4905.

(c) Engineering plans that are sufficient to comply with both of the following:

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- (i) The final cover requirements of R 299.4304 for all units.
- (ii) The design requirements of R 299.4307 for all new units or lateral extensions of existing units.
- (d) Information that is required by R 299.4922.
- (4) Engineering plans, hydrogeologic evaluations, and the surface water and groundwater monitoring program for industrial waste landfills that are not licensed under the act shall be reviewed by the director to assure compliance with these rules. The owners and operators of landfills that the director determines are not in compliance with these rules may be issued a timetable or schedule of remedial measures that will lead to compliance within a reasonable time period, which shall not be more than 2 years from the date of the determination.

History: 1982 AACS; 1993 AACS; 1999 AACS; 2015 MR 5, Eff. March 11, 2015.

**R 299.4303**

**Source:** 1993 AACS.

**R 299.4304**

**Source:** 1999 AACS.

**R 299.4305**

**Source:** 1999 AACS.

**R 299.4306**

**Source:** 1999 AACS.

**R 299.4307 Type III landfills; design standards; natural soil sites; lined sites.**

Rule 307. (1) The design standards of this rule apply to both of the following:

- (a) New disposal areas for industrial waste.
- (b) New units and lateral extensions of existing units at a construction and demolition waste landfill.
- (2) Except as required by subrules (5) and (6) of this rule, a type III landfill shall be located and designed with either of the following:
  - (a) A liner that is in compliance with subrule (4) of this rule.
  - (b) A natural soil barrier that is in compliance with subrule (3)(a) of this rule.
  - (c) For low-hazard industrial waste, a means of otherwise preventing groundwater contamination, as provided by subrule 3(b) of this rule.
- (3) The following provisions apply with respect to natural soil sites for type III landfills:
  - (a) A natural soil barrier shall have a maximum demonstrated hydraulic conductivity of  $1.0 \times 10^{-7}$  cm/sec and shall meet the criteria specified in R 299.4912. The director may approve a combination of natural soils with a maximum demonstrated hydraulic conductivity of  $1.0 \times 10^{-6}$  cm/sec having a thickness that provides equivalent protection to 10 feet of  $1.0 \times 10^{-7}$  cm/sec soil. Type III natural clay sites where the clay does not extend to the surface shall include side cutoff walls or other barriers and controls to impede the lateral infiltration of water into the fill and to impede lateral flow of leachate out of the fill interior.
  - (b) Applications for low-hazard industrial waste landfills at natural soil sites that do not meet the permeability or soil classifications of subdivision (a) of this subrule shall be considered based on the hydrogeologic characteristics of the site, including the permeability and thickness of the soils, the ability of the soils to attenuate leachate, groundwater level, and other factors particular to a specific site. In addition, all of the following requirements apply:
    - (i) The applicant shall characterize the waste in accordance with R 299.4118a criteria established by the director and shall retest the waste annually, or on a more frequent schedule, as specified by the solid waste control agency if the character of the waste is variable.
    - (ii) In the application, an applicant shall explain the rationale for the design using calculations, if applicable, and professional analyses to show how the proposed design is expected to be in compliance with the performance standards specified in R 299.4306.
    - (iii) Two thousand feet of horizontal isolation shall exist in the direction of groundwater flow measured from the solid waste boundary to public water supply wells and domestic wells in existence at the time of an advisory analysis.
    - (iv) One thousand feet of horizontal isolation shall exist in directions lateral to or upgradient of the direction of groundwater flow measured from the solid waste boundary to public water supply wells and off-site domestic wells in existence at the time of advisory analysis.

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(v) Based on the hydrogeological evaluation, the director may approve a decrease in the isolation distances specified in paragraphs (ii) to (iv) of this subdivision.

(vi) An applicant shall demonstrate, by technical calculations, considering the design details and operational procedures specific to the site, how run-off from those portions of the landfill that contain solid waste will be managed to comply with R 299.4306.

(4) All of the following may be used as a liner system for type III landfills:

(a) A compacted soil liner which has a minimum thickness of 3 feet and which is in compliance with the specifications of R 299.4913.

(b) A composite liner.

(c) A flexible membrane liner which is in compliance with the specifications of R 299.4915 and which is not less than 30 mils thick, if the liner is installed on stable soil not less than 4 feet thick and which has a hydraulic conductivity that is less than  $1.0 \times 10^{-5}$  cm/sec.

(d) Other liner materials, modified soils, or technologically advanced liner systems, based on data supplied by the applicant regarding the system's durability, permeability, resistance to sunlight and chemicals, and performance in similar applications. The director shall determine the acceptability of the data and proposed design.

(5) New disposal areas for industrial solid waste that do not meet the criteria for low-hazard industrial solid waste contained in section 11504(7) shall, at a minimum, contain a composite liner.

(6) A new unit or a lateral extension of an existing unit at a type III landfill that is an unmonitorable unit shall not be licensed unless the unit contains a leak detection system that is monitored in accordance with the approved hydrogeological monitoring plan. The owner or operator of an unmonitorable unit who installs a leak detection system to monitor the unit shall include in the hydrogeological monitoring plan provisions for monitoring the leak detection system in accordance with R 299.4437.

History: 1982 AACS; 1993 AACS; 1999 AACS; 2005 AACS; 2015 MR 5, Eff. March 11, 2015.

**R 299.4308**

Source: 1998-2000 AACS.

**R 299.4309**

Source: 1998-2000 AACS.

**R 299.4310**

Source: 1998-2000 AACS.

**R 299.4311**

Source: 1998-2000 AACS.

**R 299.4312**

Source: 1997 AACS.

**R 299.4313**

Source: 1993 AACS.

**R 299.4314**

Source: 1997 AACS.

**R 299.4315**

Source: 2005 AACS.

**R 299.4316**

Source: 1993 AACS.

**R 299.4317**

Source: 1998-2000 AACS.

**R 299.4318 Type III landfill operating requirements; groundwater monitoring.**

Rule 318. (1) The requirements of this rule apply to all type III landfill units, except as provided in subrule (2) of this rule.

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- (2) The director shall reduce or waive certain groundwater monitoring requirements of this rule if the owner or operator can demonstrate compliance with either of the following provisions:
- (a) That there is no potential for migration of hazardous constituents from that type III unit to the uppermost aquifer during the active life of the unit and the 30-year post-closure care period. The demonstration shall be certified by a qualified groundwater scientist and approved by the director and shall be based upon both of the following:
    - (i) Site-specific field collected measurements, sampling, and analysis of physical, chemical, and biological processes that affect contaminant fate and transport.
    - (ii) Contaminant fate and transport predictions that maximize contaminant migration and consider impacts on human health and the environment.
  - (b) That a discharge to the uppermost aquifer will occur, but that such discharge is authorized and monitored under a permit issued pursuant to the provisions of part 31 of the act.
- (3) Owners and operators of type III landfill units shall comply with the groundwater monitoring requirements of this rule before waste can be placed in the unit.
- (4) Once established at a type III landfill unit, groundwater monitoring shall be conducted throughout the active life and 30-year post-closure care period of that unit.
- (5) Groundwater monitoring is required at type III landfill units at all groundwater monitoring wells defined pursuant to the provisions of R 299.4906. At a minimum, a groundwater monitoring program for a type III landfill shall include monitoring for the following constituents:
- (a) The primary inorganic indicators that are listed in the provisions of R 299.4450 or alternate indicators listed in the provisions of R 299.4451 quarterly during the active life of the facility and semiannually during the 30-year post-closure period, except as provided for in subrule (7) of this rule.
  - (b) The constituents that are listed in the provisions of R 299.4452, R 299.4453, and R 299.4454, annually during the active life of the facility and the 30-year post-closure period, except as provided in subrule (6) of this rule.
  - (c) Other constituents required by a construction permit or approved hydrogeologic monitoring plan.
- (6) The director shall delete any of the monitoring parameters specified in subrule (5) of this rule for a type III landfill unit if it can be shown that the removed constituents are not reasonably expected to be in or derived from the waste that is contained in the unit in significant concentrations. An owner or operator may demonstrate that a constituent is not expected to be in or derived from the waste in significant concentrations if 1 of the following conditions exists based on all available historical waste characterizations pursuant to the provisions of R 299.4118a or the historical analysis of leachate from not less than 2 samplings:
- (a) The constituent and any breakdown products are not and have not been detected at practical quantitation limits approved by the director.
  - (b) The concentration of the constituent is below the background concentration of the constituent in groundwater.
  - (c) The concentration of the constituent is below the part 201 generic residential criteria contained in R 299.44 and R 299.46, and other constituents will serve as better indicators of leakage from the landfill unit.
- (7) The owner and operator of a type III landfill may apply to the director for an appropriate alternative frequency for repeated sampling and analysis for constituents that are specified in subrule (5) of this rule during the active life, including closure, and the 30 year post-closure care period. The alternative frequency during the active life, including closure, shall be not less than semiannually. The alternative frequency shall be based on consideration of all of the following factors:
- (a) Lithology of the aquifer and unsaturated zone.
  - (b) Hydraulic conductivity of the aquifer and unsaturated zone.
  - (c) Groundwater flow rates.
  - (d) Minimum distance of travel between waste and the closest downgradient monitoring well screen.
  - (e) The presence of an alternate monitoring system, such as a secondary collection system.
- (8) A minimum of 4 independent samples from each background and downgradient well shall be collected and analyzed during the first sampling event. An alternate background collection schedule may be approved by the department. At least 1 sample from each background and downgradient well shall be collected and analyzed during subsequent sampling events.
- (9) If the owner or operator determine, pursuant to a statistical test specified in R 299.4908, that there is a statistically significant increase over background for 1 or more of the constituents or indicators listed in subrule (5) of this rule at any monitoring well at or within the solid waste boundary, or at other monitoring locations required by the director, then the owner and operator shall do all of the following:
- (a) Within 14 days of the determination, place a notice in the facility's files that indicates which constituents have shown statistically significant increases from background levels and notify the director.
  - (b) Within 30 days of the determination, the owner and operator may demonstrate to the director that a source other than a landfill unit or other source at the facility caused the contamination, that the statistically significant increase resulted from

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error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality, or that the increase is authorized by a permit that is issued pursuant to the provisions of part 31 of the act. A report that documents this demonstration shall be certified by a qualified groundwater scientist, be submitted to the director within 30 days of the determination and be placed in the facility's files. If the director notifies the owner or operator that a successful demonstration has not been made, then within 15 days of the notification by the director the owner and operator shall submit a response action plan to the director as required in R 299.4319. If a successful demonstration is made and documented, the owner or operator shall do the following:

- (i) Continue detection monitoring as specified in this rule.
- (ii) Determine whether the presence of hazardous constituents in groundwater renders any new units or lateral extensions within the solid waste boundary unmonitorable. If so, the owner and operator shall develop a schedule for submitting revised engineering plans for such lateral extensions or new units that include a leak detection system. The owner or operator of an unmonitorable unit who installs a leak detection system to monitor the unit shall include in the hydrogeological monitoring plan provisions for monitoring the leak detection system in accordance with R 299.4437.

History: 1993 AACS; 2005 AACS; 2015 MR 5, Eff. March 11, 2015.

**R 299.4319**

Source: 2005 AACS.

**PART 4. MUNICIPAL SOLID WASTE LANDFILLS**

**R 299.4401**

Source: 1997 AACS.

**R 299.4402**

Source: 1997 AACS.

**R 299.4403**

Source: 1997 AACS.

**R 299.4404**

Source: 1997 AACS.

**R 299.4405**

Source: 1997 AACS.

**R 299.4406**

Source: 1997 AACS.

**R 299.4407**

Source: 1997 AACS.

**R 299.4408**

Source: 1997 AACS.

**R 299.4409**

Source: 1993 AACS.

**R 299.4410**

Source: 1998-2000 AACS.

**R 299.4411**

Source: 1998-2000 AACS.

**R 299.4412**

Source: 2005 AACS.

**R 299.4413**

Source: 1998-2000 AACS.

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**R 299.4414**

Source: 1993 AACS.

**R 299.4415**

Source: 1998-2000 AACS.

**R 299.4416**

Source: 1998-2000 AACS.

**R 299.4417**

Source: 1993 AACS.

**R 299.4418**

Source: 1993 AACS.

**R 299.4419**

Source: 1998-2000 AACS.

**R 299.4420 Type II landfill design standards; municipal solid waste incinerator ash landfills.**

Rule 420. (1) A new unit and a lateral extension of an existing unit at a type II landfill unit that accepts municipal solid waste incinerator ash shall be designed and constructed in accordance with section 11542 of the act, except that a municipal incinerator ash landfill that is an unmonitorable unit shall have a secondary leachate collection system and a flexible membrane liner as part of the secondary liner system.

(2) An existing unit, new unit, and lateral extension of an existing unit at a landfill that accepts municipal solid waste incinerator ash shall be closed with a final cover that is in compliance with section 11542 of the act. Grades of the final cover shall be in compliance with R 299.4425.

(3) An owner and operator of a new unit and a lateral extension of an existing unit at a municipal solid waste incinerator ash landfill shall ensure that all of the following requirements are complied with:

(a) Leachate collection systems that are required by section 11542 of the act are in compliance with R 299.4423.

(b) Secondary leachate collection or leak detection systems that are required by section 11542 of the act are in compliance with R 299.4424.

(c) Compacted clay liners that are required by section 11542 of the act are in compliance with R 299.4913.

(d) Flexible membrane liners that are required by section 11542 of the act are in compliance with R 299.4915.

(4) The director shall approve a process to substantially diminish the toxicity of municipal solid waste incinerator ash or the leachability of the ash, instead of disposal that is required under section 11542(1) of the act, if the applicant for such a process demonstrates all of the following:

(a) That, during storage or processing, ash will be contained within a tank, container, or waste pile that is in compliance with R 299.4130.

(b) The process does not in any way dilute ash constituents as a substitute for adequate treatment.

(c) The process does not create a nuisance.

(d) The process will not produce fugitive dust or other emissions in violation of part 55 of the act.

(e) The waste is tested after processing in accordance with the testing protocol of subrule (5) of this rule.

(5) Municipal solid waste incinerator ash that is processed under section 11542 of the act shall be tested in accordance with the protocol specified in R 299.4118a on a frequency that is adequate to ensure that the criteria specified in subrules (6) and (7) of this rule are met. The applicant shall propose a leaching procedure to simulate native conditions in addition to the leaching procedure specified in R 299.4118a.

(6) The director shall approve processed municipal solid waste incinerator ash for recycling or reuse if the processed ash is in compliance with the criteria for inert material that are specified in section 11504(2).

(7) The director shall approve processed municipal solid waste incinerator ash for disposal in a type II landfill if the processed ash is in compliance with both of the following provisions:

(a) The ash does not leach constituents in concentrations greater than the toxicity characteristic specified in R 299.9217 based on leaching tests under both acidic and native conditions.

(b) Does not cause any emission that results in a violation of part 55 of the act or otherwise causes unacceptable risks to human health or the environment.

History: 1993 AACS; 1999 AACS; 2015 MR 5, Eff. March 11, 2015.

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**R 299.4421**

Source: 1993 AACS.

**R 299.4422**

Source: 1998-2000 AACS.

**R 299.4423**

Source: 1998-2000 AACS.

**R 299.4424**

Source: 1998-2000 AACS.

**R 299.4425**

Source: 1998-2000 AACS.

**R 299.4426**

Source: 1993 AACS.

**R 299.4427**

Source: 1993 AACS.

**R 299.4428 Type II landfill operation; recyclable materials.**

Rule 428. (1) The operator of a type II landfill may separate recyclable materials from general refuse without a construction permit for this activity from the director. Procedures for the separation of recyclable materials shall be consistent with the requirements for processing plants that are specified in R 299.4509.

(2) The salvaging of recyclable material, if allowed by the licensee, shall be organized so that it does not interfere with the prompt sanitary disposal of solid waste or create health hazards or unsightliness. Scavenging shall not be permitted.

(3) White goods and other recyclable metals may be stored on-site for recycling in an area that is designated in the operating license, if both of the following conditions are met:

(a) A nuisance or health hazard does not develop.

(b) The materials are stored in 1 of the following areas:

(i) An area that is in compliance with the standards for waste piles specified in R 299.4130.

(ii) A lined portion of the landfill.

(iii) A roll-off box or other container that prevents the discharge of liquids.

(4) Used lead acid batteries may be stored on-site for recycling if they are stored in a vault or on a pad that is in compliance with the provisions of R 299.4130(5).

History: 1993 AACS; 2015 MR 5, Eff. March 11, 2015.

**R 299.4429**

Source: 1998-2000 AACS.

**R 299.4430 Type II landfill operation; prohibited wastes; procedures for excluding the receipt of prohibited waste.**

Rule 430. (1) The operator of a type II landfill shall ensure that the unloading of solid waste is continuously supervised by facility personnel upon receipt.

(2) The following wastes shall not be disposed of in a type II landfill:

(a) Regulated hazardous waste.

(b) PCB's or PCB items, as defined in 40 C.F.R. §761.3.

(c) Bulk or noncontainerized liquid waste or waste that contains free liquids, unless the waste is household waste other than septic waste or the waste is leachate or gas condensate that is approved for recirculation under R 299.4432.

(d) Containers that hold liquid waste, unless the container is household waste or is a small container similar in size to that normally found in household waste.

(e) Sewage.

(f) Materials that would adversely affect a liner or leachate collection and removal system.

(g) Asbestos waste, unless the disposal area complies with 40 C.F.R. §61.154.

(h) Empty drums, unless crushed to eliminate voids.

(i) Used lead acid batteries.

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- (j) Yard clippings, as specified in the act.
- (3) The owner and operator of a landfill shall implement a program at the facility for detecting and preventing the disposal of wastes that are prohibited by subrule (2) of this rule. The program shall include all of the following:
  - (a) Random inspections of incoming loads.
  - (b) Inspections of suspicious loads.
  - (c) Records of any inspections.
  - (d) Training of facility personnel to recognize prohibited waste.
  - (e) Procedures for notifying all of the following persons if regulated hazardous waste or PCB waste is discovered at the facility:
    - (i) The generator of the waste.
    - (ii) The transporter of the waste.
    - (iii) The director or his or her designee.
    - (iv) For PCB waste, the EPA regional administrator.
    - (v) The certified health department, if any.
- (4) The definition of PCB waste and PCB items contained in 40 C.F.R. §761.3 is adopted by reference in R 299.4140. The provisions of 40 C.F.R. §61.154 pertaining to asbestos waste are adopted by reference in R 299.4131.  
History: 1993 AACS; 1999 AACS; 2015 MR 5, Eff. March 11, 2015.

**R 299.4431**

**Source:** 1998-2000 AACS.

**R 299.4432**

**Source:** 1998-2000 AACS.

**R 299.4433**

**Source:** 1998-2000 AACS.

**R 299.4434**

**Source:** 1998-2000 AACS.

**R 299.4435**

**Source:** 1998-2000 AACS.

**R 299.4436**

**Source:** 1998-2000 AACS.

**R 299.4437**

**Source:** 1998-2000 AACS.

**R 299.4438**

**Source:** 1998-2000 AACS.

**R 299.4439**

**Source:** 2005 AACS.

**R 299.4440 Type II landfill groundwater monitoring; detection monitoring program.**

Rule 440. (1) Detection monitoring is required at type II landfill units at all groundwater monitoring wells defined in R 299.4906. At a minimum, a detection-monitoring program for a type II landfill shall include monitoring for all of the following constituents:

- (a) The primary indicators listed in R 299.4450, conductivity and pH, at least quarterly during the active life and semiannually during the postclosure period, except as provided for in subrules (5) and (6) of this rule.
- (b) The following constituents listed at least semiannually during the active life of the facility and the postclosure period, except as provided in subrules (2) to (6) of this rule:
  - (i) Heavy metals that are listed in R 299.4452.
  - (ii) Primary volatile organic constituents listed in R 299.4453.
  - (iii) Secondary organic constituents listed in R 299.4454.

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- (2) The director shall waive the sampling and analysis of some or all of the heavy metals specified in R 299.4452 if other inorganic indicator parameters listed in R 299.4450 or R 299.4451 provide a reliable indication of inorganic releases from the unit to groundwater. In determining whether to approve a waiver, the director shall consider all of the following factors:
- (a) The types, quantities, and concentrations of constituents in the wastes that are managed at the type II landfill unit.
  - (b) The mobility, stability, and persistence of waste constituents or their reaction products in the unsaturated zone beneath the type II landfill unit.
  - (c) The detectability of indicator parameters, waste constituents, and reaction products in the groundwater.
  - (d) The concentration and variance of monitoring parameters in the groundwater background.
- (3) The owner and operator of a type II landfill unit that contains a secondary collection system shall be deemed to have met the criteria of subrule (2) of this rule and may conduct sampling and analysis for primary indicators listed in R 299.4450 in place of the heavy metals listed in R 299.4452 if all of the following conditions are met:
- (a) Leachate monitoring shows that the concentration of all of the indicators in leachate is not less than 10 times the concentration in groundwater.
  - (b) Secondary collection system monitoring shows all of the following:
    - (i) That the allowable flow rate has not been exceeded.
    - (ii) That the concentration of 2 or more indicators in the system is not more than the following threshold values for 2 consecutive sampling events:
      - (A) For chlorides, 250 mg/l.
      - (B) For iron, 0.3 mg/l.
      - (C) For sulfates, 250 mg/l.
      - (D) For total inorganic nitrogen, 10 mg/l.
      - (E) For total dissolved solids, 500 mg/l.
      - (F) For other constituents, a value approved by the director.
    - (iii) That volatile organics listed in R 299.4453 have not been detected in the secondary collection system.
    - (iv) That the concentration of metals listed in R 299.4452 has not exceeded the part 201 generic residential cleanup criteria contained in R 299.44 and R 299.46.
  - (c) The unit is a monitorable unit.
  - (d) The concentration of the indicators in groundwater is normally distributed.
- (4) The director shall delete any of the monitoring parameters listed in R 299.4452 to R 299.4454 for a type II landfill unit if it can be shown that the removed constituents are not reasonably expected to be in or derived from the waste that is contained in the unit. An owner or operator may demonstrate that a constituent is not expected to be in or derived from the waste if the constituent and any breakdown products are not detectable in leachate at practical quantitation limits approved by the director based on historic analysis of leachate from not less than 2 sampling events.
- (5) The owner and operator of a type II landfill may apply to the director for an appropriate alternative frequency for repeated sampling and analysis for pH, conductivity, and the constituents specified in R 299.4450 to R 299.4454, during the active life, including closure, and the postclosure care period. The alternative frequency during the active life, including closure, shall be at least semiannually for pH, conductivity, and the constituents specified in R 299.4450 and R 299.4451, and at least annually for the constituents specified in R 299.4452 to R 299.4454. The alternative frequency shall be based on consideration of all of the following factors:
- (a) The lithology of the aquifer and unsaturated zone.
  - (b) The hydraulic conductivity of the aquifer and unsaturated zone.
  - (c) The groundwater flow rates.
  - (d) The minimum distance of travel between waste and the closest downgradient monitoring well screen.
  - (e) The presence of an alternative monitoring system, such as a secondary collection system.
  - (f) The resource value of the aquifer.
- (6) The owner or operator of a type II landfill unit shall be deemed to meet the criteria of subrule (5) of this rule and may reduce sampling of the following constituents to the following frequency during the active life and 30-year postclosure period if the following conditions are met as applicable:
- (a) The heavy metals listed in R 299.4452 and secondary organic constituents listed in R 299.4454 to annually if the active portions of the unit contain a composite liner underlain by a natural soil barrier in compliance with the leakage control criteria of R 299.4422(2).
  - (b) For monitorable units which contain a secondary collection system in the active portion, but which are not underlain by a natural soil barrier meeting the criteria of R 299.4422(2), all constituents listed in R 299.4450 to R 299.4454 to the following frequency:

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(i) To annually, if the average daily flow rate in the secondary collection system of all landfill cells in the active portion does not exceed the following flow rates during the previous 6 months:

- (A) A value of 5 gallons per acre per day for landfill cells that have less than 2 feet of compacted clay in the primary liner.
- (B) A value of 50 gallons per acre per day for landfill cells that have not less than 2 feet of compacted clay in the primary liner.

(ii) To semiannually, if the average daily flow rate in the secondary collection system of any landfill cell in the active portion has exceeded the flow rates specified in paragraph (i) of this subdivision in the previous 6 months, but has not exceeded the following action flow rates for the cell during the previous 6 months:

- (A) A value of 25 gallons per acre per day for landfill cells that have less than 2 feet of compacted clay in the primary liner.
- (B) A value of 200 gallons per acre per day for landfill cells that have not less than at least 2 feet of compacted clay in the primary liner.

(c) For monitorable units that contain a secondary collection system in the active portion underlain by a natural soil barrier meeting the criteria of R 299.4422(2), to annually if the average daily flow rate in the secondary collection system of any landfill cell in the active portion has not exceeded the following flow rates during the previous 6 months:

- (i) A value of 25 gallons per acre per day for landfill cells that have less than 2 feet of compacted clay in the primary liner.
- (ii) A value of 200 gallons per acre per day for landfill cells that have not less than 2 feet of compacted clay in the primary liner.

(7) If insufficient background data exists to perform statistical analysis, a minimum of 4 independent samples shall be collected and analyzed during the first sampling event. At least 1 sample from each detection monitoring well shall be collected and analyzed during subsequent sampling events. An alternate background collection schedule may be approved by the director. An interim statistical method may be utilized during the period in which background data is collected.

(8) If the owner and operator determine, pursuant to a statistical test specified in R 299.4908, that there is a statistically significant increase over background for 1 or more of the constituents at any monitoring well at the solid waste boundary or at other monitoring locations required by the director, then the owner and operator shall do both of the following:

(a) Within 14 days of the determination, place a notice in the operating record that indicates which constituents have shown statistically significant increases from background levels and notify the director that the notice is placed in the operating record.

(b) Prepare and submit to the director an assessment monitoring plan that is in compliance with R 299.4441 and a response action plan that is in compliance with R 299.4442 within 45 days of the determination, or pursuant to an alternate schedule approved by the director, except as provided in subrule (9) of this rule.

(9) The owner and operator may demonstrate to the director that a source other than a landfill unit caused the contamination or that the statistically significant increase resulted from error in sampling, analysis, statistical evaluation or from natural variation in groundwater quality. A report that documents the demonstration shall be certified by a qualified groundwater scientist, be submitted to the director within 30 days of the determination specified in subrule (8) of this rule, and be placed in the operating record. If the director determines that the alternate source demonstration prepared pursuant to this subrule has not been successfully provided, the deficiencies shall be specified to the petitioner in writing and the petitioner granted 15 days to address those deficiencies identified by the director. If a successful demonstration is made and documented, then the owner or operator shall do the following:

(a) Continue detection monitoring as specified in this rule.

(b) Determine whether the presence of hazardous constituents in groundwater renders any new units or lateral extensions within the solid waste boundary unmonitorable. If so, the owner and operator shall develop a schedule for submitting revised engineering plans for such lateral extensions or new units that include a leak detection system.

(10) If the director notifies the owner and operator that a successful demonstration has not been made, then, within 15 days of notification by the director, the owner and operator shall prepare an assessment monitoring program as required in R 299.4441 and submit a response action plan to the director as required in R 299.4442.

History: 1993 AACS; 1999 AACS; 2005 AACS; 2015 MR 5, Eff. March 11, 2015.

**R 299.4441**

Source: 2005 AACS.

**R 299.4442**

Source: 2005 AACS.

**R 299.4443**

Source: 2005 AACS.

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**R 299.4444**  
Source: 2005 AACS.

**R 299.4445**  
Source: 2005 AACS.

**R 299.4446**  
Source: 1993 AACS.

**R 299.4447**  
Source: 1993 AACS.

**R 299.4448**  
Source: 1993 AACS.

**R 299.4449**  
Source: 1993 AACS.

**R 299.4450**  
Source: 1998-2000 AACS.

**R 299.4451**  
Source: 2005 AACS.

**R 299.4452**  
Source: 1998-2000 AACS.

**R 299.4453**  
Source: 2005 AACS.

**R 299.4454**  
Source: 1998-2000 AACS.

**PART 5. SOLID WASTE TRANSFER FACILITIES AND PROCESSING PLANTS**

**R 299.4501**  
Source: 1998-2000 AACS.

**R 299.4502**  
Source: 1993 AACS.

**R 299.4503**  
Source: 1982 AACS.

**R 299.4504**  
Source: 1998-2000 AACS.

**R 299.4505**  
Source: 1998-2000 AACS.

**R 299.4506**  
Source: 1993 AACS.

**R 299.4507**  
Source: 1993 AACS.

**R 299.4508**  
Source: 1982 AACS.

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**R 299.4509**

Source: 1993 AACS.

**PART 6. SOLID WASTE TRANSPORTING UNITS**

**R 299.4601**

Source: 1982 AACS.

**R 299.4602**

Source: 1982 AACS.

**PART 7. SOLID WASTE MANAGEMENT PLANS**

**R 299.4701 Compliance with act and rules.**

Rule 701. The solid waste management plans required by section 11533 of the act shall comply with the act and all rules promulgated pursuant to the act. Regional and multicounty planning is encouraged. The director shall consider proposals for regional and multicounty plans if the proposals are in conformance with the act.

History: 1982 AACS; 2015 MR 5, Eff. March 11, 2015.

**R 299.4702 County solid waste management plan; designation of agency responsible for preparation of plan.**

Rule 702. (1) The director shall, within 2 weeks after the effective date of these rules, provide a form to each county on which the county shall indicate the county's intent to prepare or upgrade an existing solid waste management plan and designate an agency responsible for the preparation of the plan. As provided in section 11533(4) of the act, the municipalities within the county may file a notice of intent and designate the agency responsible for the preparation of the plan if the county fails to do so. In either case, the designated planning agency shall have the necessary expertise and the legal, financial, and institutional capabilities to prepare the plan. Designated planning agencies may include, but are not limited to, all of the following:

- (a) Regional, county, or municipal planning commissions.
- (b) Departments of public works.
- (c) Road commissions.
- (d) Drain commissioners.
- (e) County executives.
- (f) Solid waste disposal authorities.

(2) If a county files a notice of intent and the designated planning agency does not follow the work program or comply with the requirements of the act, the director shall review the reasons for nonperformance and may request that the municipalities within the county prepare a solid waste management plan.

(3) If the municipalities within a county file a notice of intent and the designated planning agency does not follow the work program or comply with the requirements of the act, the director shall review the reasons for nonperformance and may request that a regional solid waste management planning agency prepare a solid waste management plan.

(4) If a regional solid waste management planning agency files a notice of intent and does not follow the work program or comply with the requirements of the act, the director shall review the reasons for nonperformance and may prepare a solid waste management plan which shall be final.

(5) One year after the effective date of these rules, the director may, at his or her discretion, assume responsibility for the preparation of a solid waste management plan if the governmental unit that filed a notice of intent does not comply with the requirements of the act and these rules.

History: 1982 AACS; 2015 MR 5, Eff. March 11, 2015.

**R 299.4703 Planning committees; formation; membership; responsibilities.**

Rule 703. (1) The planning committee shall be formed pursuant to section 11534 of the act.

(2) Planning committee membership shall comply with all of the following requirements:

(a) The planning committee shall be formed in accordance with section 11534(2) of the act considering the definitions in part 1 of these rules, R 299.4103(e), R 299.4104(c), and R 299.4107(h). The 4 representatives appointed to the planning committee as representatives of the solid waste management industry shall, when possible, reside or conduct business within the county.

(b) The 2 representatives appointed to the planning committee from environmental interest groups shall be from organizations that are active within the county.

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- (c) The 3 general public representatives appointed to the planning committee shall reside within the county.
  - (d) The other 4 members of the planning committee shall be selected as specified in the act.
  - (e) Counties preparing a regional or multicounty solid waste management plan may jointly appoint a single planning committee.
  - (3) The planning committee shall do both of the following:
    - (a) Assist in the preparation of the plan by providing advice and consultation, which includes all of the following:
      - (i) Reviewing the designated planning agency's work program.
      - (ii) Identifying local policies and priorities.
      - (iii) Insuring coordination and public participation.
      - (iv) Advising counties or municipalities.
      - (v) Reviewing work elements.
      - (vi) Approving the plan.
    - (b) Assure that the designated planning agency is fulfilling all the requirements of the act and these rules as to both the content of the plan and the public participation. The committee shall notify the planning agency of any deficiencies. If the deficiencies are not worked out to the committee's satisfaction, then it shall inform the director and the governmental unit filing the notice of intent. The director or the governmental unit filing the notice of intent shall resolve any deficiencies.
- History: 1982 AACS; 2015 MR 5, Eff. March 11, 2015.

**R 299.4704**

**Source:** 1982 AACS.

**R 299.4705**

**Source:** 1982 AACS.

**R 299.4706 Public participation programs.**

- Rule 706. (1) The designated planning agency shall conduct a public participation program which shall encourage the participation and involvement of the public and municipalities in the development and implementation of the solid waste management plan.
- (2) The designated planning agency shall maintain a mailing list of all municipalities, affected public agencies, the private sector, and all interested persons who request information regarding the plan.
  - (3) Time shall be reserved on the agenda at all public meetings for questions and comments from the general public.
  - (4) The public meetings shall be scheduled at a time convenient to the general public.
  - (5) The designated planning agency shall hold public meetings with the planning committee not less than quarterly each year during plan preparation.
  - (6) If the director prepares the plan, the extent of public participation shall be conducted pursuant to section 11538(e) of the act.
  - (7) The designated planning agency shall maintain at least 1 central repository where all documents related to the plan may be inspected by the public.
  - (8) Upon request, the designated planning agency shall submit specific tasks as outlined in the work program to all of the following for comment and advice:
    - (a) The planning committee.
    - (b) Municipalities.
    - (c) Appropriate organizations.
    - (d) The regional solid waste management planning agency.
    - (e) Adjacent counties.
    - (f) Certified health departments.
- History: 1982 AACS; 2015 MR 5, Eff. March 11, 2015.

**R 299.4707 Plan adoption; update procedures.**

- Rule 707. (1) The designated planning agency shall follow the review procedures as established in section 11535(a) to (f) of the act.
- (2) The designated planning agency shall allow a period of not less than 3 months for the review and comments on the proposed plan. The exact time limit shall be specified in the work program. After the prescribed review and comment period, all of the comments from the reviewing agencies shall be submitted with the plan to the governmental unit that filed the notice of intent.

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(3) The designated planning agency shall conduct a public hearing on the proposed county solid waste management plan before formal adoption by the county, the municipalities, or the state, as required in section 11535(f) of the act. Before the public hearing, the planning committee shall review the plan and shall authorize its release for public hearing. After the public hearing, the designated planning agency shall prepare a transcript, a recording, or another complete record of the public hearing proceedings. The record may be copied at cost or may be inspected by the general public upon request.

(4) The designated planning agency shall revise the plan, if necessary, in response to public hearing comments and shall then submit the plan to the planning committee.

(5) After approval by the majority of the planning committee and within 30 days of closing of the public comment period, the plan shall be submitted for formal action to either the county board of commissioners or to the municipalities who voted in favor of preparing the plan.

History: 1982 AACCS; 2015 MR 5, Eff. March 11, 2015.

**R 299.4708 Formal action.**

Rule 708. (1) If the county files a notice of intent under section 11533(3) of the act to prepare a solid waste management plan, then formal action has been fulfilled when the plan is approved by the planning committee and then approved by the county board of commissioners.

(2) If the municipalities within a county file a notice of intent under section 11533(4) of the act to prepare a solid waste management plan, then formal action has been fulfilled when the plan is approved by the planning committee and then is approved by a majority of those municipalities who voted in favor of filing a notice of intent to prepare a solid waste management plan.

(3) If the plan is disapproved under subrule (1) or (2) of this rule, the plan shall be returned to the planning committee along with the statement of the objections to the plan. The planning committee shall have 30 days to review the objections and return the plan to the county board of commissioners or to the majority of municipalities along with its recommendations. The county board of commissioner or a majority of municipalities who voted in favor of preparing the plan shall approve the plan, either as submitted or with changes and the reasons for the changes, and then shall submit the plan to all municipalities within the county.

(4) Before the plan may be submitted to the director for his or her approval, not less than 67% of the municipalities in the county shall approve the plan.

(5) A plan that is prepared by the regional solid waste management planning agency under section 11533(5) of the act shall be approved as follows:

(a) Within 30 days of closing of the public comment period, the regional solid waste planning agency shall submit the plan, together with any modifications and public comments and responses from the public hearing, to the county board of commissioners for their formal action.

(b) After the county board of commissioners has taken formal action, the plan shall be submitted to the governing bodies of all municipalities within the county for their approval.

(c) Not less than 67% of the municipalities shall approve the plan before submittal to the director for his or her approval.

History: 1982 AACCS; 2015 MR 5, Eff. March 11, 2015.

**R 299.4709 Director's approval.**

Rule 709. (1) After 67% approval, the plan shall be submitted to the director for his or her approval. The director shall have 6 months to approve or disapprove the plan.

(2) If, after the plan has been adopted by the county board of commissioners, the majority of the municipalities who voted in favor of preparing the plan or the regional solid waste management planning agency and 67% of all the municipalities in the county do not approve the plan within the required time limit, the director shall prepare a plan for the county, including the municipalities who did not approve the plan, after reviewing the materials prepared by the planning agency and after providing for a meeting with those municipalities who did not approve the plan. The plan prepared by the director shall be final.

(3) A 5-year update of the plan shall be prepared as required in section 11533(2) of the act.

(4) An amendment of the plan shall follow the same procedures for review and adoption as the original plan and the updates. However, there is no required submittal date for an amendment, and the cost of the required public notice and required public hearings shall be borne by the person seeking the amendment.

History: 1982 AACCS; 2015 MR 5, Eff. March 11, 2015.

**R 299.4710 Enforcement.**

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Rule 710. (1) There are 2 areas of enforcement that are affected by the county solid waste management plans. The first is the issuance of permits and licenses and second is the validity of local ordinances.

(2) Two years after the approval of rules by the legislature or upon the director's approval of a county plan, whichever occurs first, a permit or license shall not be issued for a new facility unless that facility complies and is consistent with an approved solid waste management plan. If an approved solid waste management plan exists, the director shall review the plan and shall insure that the proposed facility complies and is consistent with the plan before a permit or license is issued. In reviewing the application for a new facility, the director shall consult with the designated planning agency to insure that the proposed facility complies with the approved solid waste management plan. If a proposed facility is not consistent or not in compliance with the approved solid waste management plan, then the applicant shall initiate an amendment to the plan if the applicant wishes to obtain a construction permit or operating license. If 2 years after the effective date of these rules an approved plan does not exist, the director shall not issue a permit or license for a new facility.

(3) As stated in section 11538(8) of the act, local ordinances which are not consistent with approved solid waste management plans are not enforceable.

History: 1982 AACCS; 2015 MR 5, Eff. March 11, 2015.

**R 299.4711 Plan format and content.**

Rule 711. To comply with the requirements of the act and to be eligible for 80% state funding, county solid waste management plans shall be in compliance with the following general format and shall contain the following elements:

(a) An executive summary, which shall include all of the following:

- (i) An overview.
- (ii) Conclusions.
- (iii) Selected alternatives.

(b) An introduction as follows:

(i) The introduction shall establish the goals and objectives for the prevention of adverse effects on the public health and the environment resulting from improper solid waste collection, transportation, processing, or disposal, including the protection of ground and surface water quality, air quality, and land quality.

(ii) The introduction shall also establish the goals and objectives for the maximum utilization of Michigan's solid waste through resource recovery, including source reduction and source separation.

(c) A data base that includes all of the following:

(i) An inventory and description of all existing facilities where solid waste is being transferred, treated, processed, or disposed of, including all of the following:

- (A) Physical location, size, and a delineation of private and public facilities.
- (B) A description of solid waste type, volume, or weight received, and current capacity.
- (C) Deficiencies.

(ii) An evaluation of existing solid waste collection, management, processing, treatment, transportation, and disposal problems by type and volume, including residential and commercial solid waste, industrial sludges, pretreatment residues, municipal sewage sludge, air pollution control residue, and other solid wastes from industrial or municipal sources, but excluding hazardous wastes.

(iii) Demographics of the county, including the following:

- (A) Current and projected population densities and centers for 5- and 10-year periods.
- (B) Identification of current and projected centers of solid waste generation, including industrial wastes for 5- and 10-year periods.

(iv) Current and projected land development patterns and environmental conditions as related to solid waste management systems for 5- and 10-year periods.

(d) Solid waste management system alternatives shall address the problems identified in subdivision (c)(ii) of this rule and shall include both of the following:

(i) Solid waste management components, including all of the following:

- (A) Resource conservation including source reduction.
- (B) Resource recovery including source separation, materials, energy, and markets.
- (C) Volume reduction.
- (D) Sanitary landfill.
- (E) Collection.
- (F) Transportation.
- (G) Ultimate disposal area uses, including recreational potential.
- (H) Institutional arrangements.

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- (ii) Development of alternative systems which address all the solid waste management components. Each alternative system shall evaluate public health, economic, environmental, siting, and energy impacts. Capital, operational, and maintenance costs shall be developed for each alternative system.
- (e) Plan selection shall be based on all of the following:
  - (i) An evaluation and ranking of proposed alternative systems, including all of the following:
    - (A) Technical feasibility for 5- and 10-year periods.
    - (B) Economic feasibility for 5- and 10-year periods.
    - (C) Access to land for 5- and 10-year periods.
    - (D) Access to transportation networks to accommodate the development and operation of solid waste transporting, processing, and disposal facilities for 5- and 10-year periods.
    - (E) Effects on energy for 5- and 10-year periods; production possibilities and impacts of shortages on solid waste management systems.
    - (F) Environmental impacts over 5- and 10-year periods.
    - (G) Public acceptability.
  - (ii) The selected alternative shall meet all of the following requirements:
    - (A) Include the basis for selection, a summary of evaluation, and ranking.
    - (B) Include advantages and disadvantages of the selected plan for all of the following factors:
      - (1) Public health.
      - (2) Economics.
      - (3) Environmental effects.
      - (4) Energy use.
      - (5) Siting problems.
    - (C) Be capable of being developed and operated in compliance with state laws and rules of the department pertaining to the protection of the public health and environment considering the available land in the planning area and the technical feasibility of, and economic costs associated with, the alternative.
    - (D) Include a timetable for implementing the solid waste management plan.
    - (E) Be consistent with and utilize population, waste generation, and other planning information prepared under the provisions of section 208 of Public Law 92-500, 33 U.S.C. 1288.
  - (iii) Site requirements, including the following requirements:
    - (A) The selected alternative shall identify specific sites for solid waste disposal areas for the 5-year period subsequent to plan approval or update.
    - (B) If specific sites cannot be identified for the remainder of the 10-year period, the selected alternative shall include specific criteria that guarantee the siting of necessary solid waste disposal areas for the 10-year period subsequent to plan approval.
    - (C) A site for a solid waste disposal area that is located in one county, but serves another county, shall be identified in both county solid waste management plans.
- (f) Management component. Each solid waste management plan prepared pursuant to the act shall contain a management component which identifies management responsibilities and institutional arrangements necessary for the implementation of technical alternatives. At a minimum, this component shall contain all of the following:
  - (i) An identification of the existing structure of persons, municipalities, counties, and state and federal agencies responsible for solid waste management, including planning, implementation, enforcement, and an assessment of all of the following:
    - (A) Technical and administrative capabilities.
    - (B) Financial capabilities.
    - (C) Legal capabilities.
  - (ii) An identification of gaps and problem areas in the existing management system which must be addressed to permit implementation of the plan.
  - (iii) A recommended management system for plan implementation, which shall consist of all of the following elements:
    - (A) An identification of persons, municipalities, counties, and state and federal agencies assigned responsibilities under the plan, with a precise delineation of planning, implementation, and enforcement responsibilities, including legal, technical, and financial capability for all entities assigned responsibilities.
    - (B) A process for ensuring the ongoing involvement of and consultation with the regional solid waste management planning agency.
    - (C) A process for ensuring coordination with other related plans and programs within the planning area, including, but not limited to, land use plans, water quality plans, and air quality plans.
    - (D) An identification of necessary training and educational programs, including public education.

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- (E) A strategy for plan implementation, including the acceptance of responsibilities from all entities assigned a role within the management system.
  - (F) A financial program that identifies funding sources for entities assigned responsibilities under the plan.
  - (g) Documentation of public participation as follows:
    - (i) A record of attendance shall be maintained and included in an appendix to the plan.
    - (ii) Citizen concerns and questions shall be considered and responded to in the plan's appendix.
- History: 1982 AACS; 2015 MR 5, Eff. March 11, 2015.

**R 299.4712 Municipalities; filing for a separate planning grant.**

Rule 712. A municipality that files for a separate planning grant under section 11547 of the act shall follow the same procedures and rules as a county in the preparation of a solid waste management plan, with the following exceptions:

- (a) A municipality shall utilize, consult with, and receive advice from, the planning committee appointed by the county.
- (b) A municipality shall consult and coordinate activities with the county designated planning agency.
- (c) The county planning committee shall approve or disapprove the work program. If disapproved, the planning committee shall return the work program to the municipality with objections. The municipality shall, within 30 days, resubmit the work program with the necessary revisions.
- (d) A municipality shall submit progress reports to the planning committee not less than quarterly.

History: 1982 AACS; 2015 MR 5, Eff. March 11, 2015.

**PART 8. GRANTS**

**R 299.4801**

Source: 1982 AACS.

**R 299.4802**

Source: 1982 AACS.

**R 299.4803**

Source: 1982 AACS.

**R 299.4804**

Source: 1982 AACS.

**R 299.4805**

Source: 1982 AACS.

**R 299.4806 Solid waste management planning grants; funding formula; funding of municipalities joined together by interlocal agreement; funding of work programs; amendments to plans.**

Rule 806. (1) One-half of the appropriated funds for county solid waste planning grants in any 1 state fiscal year shall be equally divided among the counties as fixed grants. One-half of the appropriated funds shall be proportionally divided among the counties as population proportioned grants based upon the most recently adopted department of management and budget population totals. Therefore, the total grant funding available for solid waste management planning in each county is determined by the following formula:

$$\frac{1}{2}A \div 83 + \frac{1}{2}A \times \frac{PC}{PT}$$

where: PC = Current county population  
PT = Total current state population (equal to the total of the 83 county populations).  
A = Total appropriated funds.

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(2) Municipalities that are joined together by interlocal agreement as provided by section 11547(1) of the act shall be funded from the grant funds available to the counties in which they are located in an amount proportional to their population as compared to the total current county population.

(3) Each of the counties affected by inclusion of a municipality in the plan of an adjacent county as provided by section 11536(1) of the act shall have its population adjusted to account for the gained or lost population for the purpose of calculation of the grant.

(4) A grant offer for preparation of a county solid waste management plan shall not be more than 80% of the total cost of the plan which is not covered by federal funds.

(5) A work program that is submitted to fund the initiation and completion of an original solid waste management plan required by the act shall receive funding before work programs for updating previously approved plans.

(6) An amendment to an approved solid waste management plan is not eligible for state grant funding.

(7) A work program that is partially funded may be annually updated to reflect the amount of work accomplished, changes in projected project costs for each work element, and the cost of completion of the plan, but may not be changed to revise the scope of the project. An updated work program is eligible for continued funding from each annual appropriation until the full 80% state funding has been granted.

History: 1982 AACS; 2015 MR 5, Eff. March 11, 2015.

**R 299.4807**

Source: 1982 AACS.

**PART 9. LANDFILL CONSTRUCTION PERMITS AND OPERATING LICENSES**

**R 299.4901**

Source: 1998-2000 AACS.

**R 299.4902**

Source: 1998-2000 AACS.

**R 299.4903**

Source: 1998-2000 AACS.

**R 299.4904**

Source: 1998-2000 AACS.

**R 299.4905**

Source: 1993 AACS.

**R 299.4906**

Source: 1998-2000 AACS.

**R 299.4907**

Source: 2005 AACS.

**R 299.4908**

Source: 2005 AACS.

**R 299.4909**

Source: 1998-2000 AACS.

**R 299.4910**

Source: 1998-2000 AACS.

**R 299.4911**

Source: 1998-2000 AACS.

**R 299.4912**

Source: 1998-2000 AACS.

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**R 299.4913**  
Source: 1998-2000 AACS.

**R 299.4914**  
Source: 1993 AACS.

**R 299.4915**  
Source: 1998-2000 AACS.

**R 299.4916**  
Source: 1998-2000 AACS.

**R 299.4917**  
Source: 1998-2000 AACS.

**R 299.4918**  
Source: 1998-2000 AACS.

**R 299.4919**  
Source: 1998-2000 AACS.

**R 299.4920**  
Source: 1993 AACS.

**R 299.4921**  
Source: 1998-2000 AACS.

**R 299.4922**  
Source: 1998-2000 AACS.

**ENVIRONMENTAL RESPONSE DIVISION**  
**RESOURCE RECOVERY COMMISSION**

**R 299.5001**  
Source: 1979 AC.

**R 299.5002**  
Source: 1979 AC.

**R 299.5003**  
Source: 1979 AC.

**R 299.5004**  
Source: 1979 AC.

**R 299.5005**  
Source: 1979 AC.

**R 299.5006**  
Source: 1979 AC.

**R 299.5007**  
Source: 1979 AC.

**R 299.5008**  
Source: 1979 AC.

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**R 299.5009**  
Source: 1979 AC.

**R 299.5010**  
Source: 1979 AC.

**R 299.5011**  
Source: 1979 AC.

**R 299.5012**  
Source: 1979 AC.

**R 299.5013**  
Source: 1979 AC.

**R 299.5014**  
Source: 1979 AC.

**R 299.5015**  
Source: 1979 AC.

**R 299.5016**  
Source: 1979 AC.

**ENVIRONMENTAL RESPONSE DIVISION**  
**SITE RECLAMATION GRANT/LOAN PROGRAM**

**R 299.5051 Rescinded.**  
History: 1991 AACS; 2015 MR 14, Eff. Aug. 12, 2015.

**R 299.5052 Rescinded.**  
History: 1991 AACS; 2015 MR 14, Eff. Aug. 12, 2015.

**R 299.5053 Rescinded.**  
History: 1991 AACS; 2015 MR 14, Eff. Aug. 12, 2015.

**R 299.5054 Rescinded.**  
History: 1991 AACS; 2015 MR 14, Eff. Aug. 12, 2015.

**R 299.5055 Rescinded.**  
History: 1991 AACS; 2015 MR 14, Eff. Aug. 12, 2015.

**R 299.5056 Rescinded.**  
History: 1991 AACS; 2015 MR 14, Eff. Aug. 12, 2015.

**R 299.5057 Rescinded.**  
History: 1991 AACS; 2015 MR 14, Eff. Aug. 12, 2015.

**R 299.5058 Rescinded.**  
History: 1991 AACS; 2015 MR 14, Eff. Aug. 12, 2015.

**R 299.5059 Rescinded.**  
History: 1991 AACS; 2015 MR 14, Eff. Aug. 12, 2015.

**R 299.5060 Rescinded.**

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History: 1991 AACS; 2015 MR 14, Eff. Aug. 12, 2015.

**R 299.5061 Rescinded.**

History: 1991 AACS; 2015 MR 14, Eff. Aug. 12, 2015.

**ENVIRONMENTAL CONTAMINATION RESPONSE ACTIVITY**

**PART 1. GENERAL PROVISIONS**

**R 299.5101**

Source: 2013 AACS.

**R 299.5103**

Source: 2013 AACS.

**R 299.5105**

Source: 2013 AACS.

**R 299.5107**

Source: 2013 AACS.

**R 299.5109**

Source: 2013 AACS.

**R 299.5111**

Source: 2013 AACS.

**R 299.5113**

Source: 2013 AACS.

**R 299.5115**

Source: 2013 AACS.

**R 299.5117**

Source: 2013 AACS.

**PART 2. SITE IDENTIFICATION AND LIST**

**R 299.5201**

Source: 1990 AACS.

**R 299.5209**

Source: 2011 AACS.

**R 299.5210**

Source: 2011 AACS.

**R 299.5211**

Source: 2011 AACS.

**R 299.5213**

Source: 2011 AACS.

**R 299.5215**

Source: 2011 AACS.

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**R 299.5217**  
Source: 2011 AACS.

**R 299.5219**  
Source: 2011 AACS.

**PART 3. FUNDING**

**R 299.5301**  
Source: 1990 AACS.

**R 299.5303**  
Source: 1990 AACS.

**R 299.5305**  
Source: 1990 AACS.

**PART 4. ALTERNATE WATER SUPPLIES**

**R 299.5401**  
Source: 2013 AACS.

**R 299.5403**  
Source: 2013 AACS.

**R 299.5405**  
Source: 2013 AACS.

**R 299.5407**  
Source: 2013 AACS.

**R 299.5409**  
Source: 2013 AACS.

**R 299.5411**  
Source: 2013 AACS.

**R 299.5413**  
Source: 2013 AACS.

**R 299.5415**  
Source: 2013 AACS.

**PART 5. RESPONSE ACTIVITIES**

**R 299.5501**  
Source: 1990 AACS.

**R 299.5503**  
Source: 1990 AACS.

**R 299.5505**

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**Source:** 1990 AACS.

**R 299.5507**

**Source:** 1990 AACS.

**R 299.5509**

**Source:** 1990 AACS.

**R 299.5511**

**Source:** 1990 AACS.

**R 299.5513**

**Source:** 1990 AACS.

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**Source:** 1990 AACS.

**R 299.5520**

**Source:** 2013 AACS.

**R 299.5522**

**Source:** 2013 AACS.

**R 299.5524**

**Source:** 2013 AACS.

**R 299.5526**

**Source:** 2013 AACS.

**R 299.5528**

**Source:** 2013 AACS.

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**Source:** 2013 AACS.

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**Source:** 2013 AACS.

**R 299.5534**

**Source:** 2013 AACS.

**R 299.5536**

**Source:** 2013 AACS.

**R 299.5538**

**Source:** 2013 AACS.

**R 299.5540**

**Source:** 2013 AACS.

**R 299.5542**

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Source: 2013 AACS.

**PART 6. SELECTION OF REMEDIAL ACTION**

**R 299.5601**

Source: 2011 AACS.

**R 299.5603**

Source: 2011 AACS.

**R 299.5605**

Source: 2011 AACS.

**R 299.5607**

Source: 2011 AACS.

**PART 7. CLEANUP CRITERIA**

**R 299.5701**

Source: 2013 AACS.

**R 299.5703**

Source: 2013 AACS.

**R 299.5705**

Source: 2013 AACS.

**R 299.5706**

Source: 2013 AACS.

**R 299.5706a**

Source: 2013 AACS.

**R 299.5707**

Source: 2013 AACS.

**R 299.5708**

Source: 2013 AACS.

**R 299.5709**

Source: 2013 AACS.

**R 299.5710**

Source: 2013 ACS.

**R 299.5711**

Source: 2002 AACS.

**R 299.5712**

Source: 2013 AACS.

**R 299.5713**

Source: 2002 AACS.

**R 299.5714**

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Source: 2013 AACS.

**R 299.5715**

Source: 2002 AACS.

**R 299.5716**

Source: 2012 AACS.

**R 299.5717**

Source: 2002 AACS.

**R 299.5718**

Source: 2013 AACS.

**R 299.5719**

Source: 2002 AACS.

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Source: 2013 AACS.

**R 299.5721**

Source: 2002 AACS.

**R 299.5722**

Source: 2013 AACS.

**R 299.5723**

Source: 2002 AACS.

**R 299.5724**

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**R 299.5725**

Source: 2002 AACS.

**R 299.5726**

Source: 2013 AACS.

**R 299.5727**

Source: 2002 AACS.

**R 299.5728**

Source: 2013 AACS.

**R 299.5730**

Source: 2013 AACS.

**R 299.5732**

Source: 2012 AACS.

**R 299.5734**

Source: 2013 AACS.

**R 299.5736**

Source: 2013 AACS.

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**R 299.5738**  
Source: 2013 AACS.

**R 299.5740**  
Source: 2013 AACS.

**R 299.5742**  
Source: 2013 AACS.

**R 299.5744**  
Source: 2013 AACS.

**R 299.5746**  
Source: 2013 AACS.

**R 299.5748**  
Source: 2013 AACS.

**R 299.5752**  
Source: 2013 AACS.

**PART 8. SITE ASSESSMENT MODEL**

**R 299.5801**  
Source: 2011 AACS.

**R 299.5803**  
Source: 2011 AACS.

**R 299.5805**  
Source: 2011 AACS.

**R 299.5807**  
Source: 2011 AACS.

**R 299.5809**  
Source: 2011 AACS.

**R 299.5811**  
Source: 2011 AACS.

**R 299.5813**  
Source: 2011 AACS.

**R 299.5815**  
Source: 2011 AACS.

**R 299.5817**  
Source: 2011 AACS.

**R 299.5819**  
Source: 2011 AACS.

**R 299.5821**  
Source: 2011 AACS.

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**R 299.5823**  
Source: 2011 AACS.

**PART 9. BASELINE ENVIRONMENTAL ASSESSMENTS**

**R 299.5901**  
Source: 2013 AACS.

**R 299.5903**  
Source: 2013 AACS

**R 299.5905**  
Source: 2013 AACS.

**R 299.5907**  
Source: 2013 AACS.

**R 299.5909**  
Source: 2013 AACS.

**R 299.5911**  
Source: 2013 AACS.

**R 299.5913**  
Source: 2013 AACS.

**R 299.5915**  
Source: 2013 AACS.

**R 299.5917**  
Source: 2013 AACS.

**R 299.5919**  
Source: 2013 AACS.

**LAND AND WATER MANAGEMENT DIVISION**  
**GREAT LAKES BOTTOMLANDS PRESERVES**

**R 299.6001**  
Source: 1981 AACS.

**R 299.6002**  
Source: 1981 AACS.

**R 299.6003**  
Source: 1983 AACS.

**R 299.6004**  
Source: 1985 AACS.

**R 299.6005**  
Source: 1987 AACS.

**R 299.6006**

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**Source:** 1988 AACS.

**R 299.6007**

**Source:** 1988 AACS.

**R 299.6008**

**Source:** 1991 AACS.

**R 299.6009**

**Source:** 1991 AACS.

**R 299.6010**

**Source:** 1998-2000 AACS.

**R 299.6011**

**Source:** 1998-2000 AACS.

**R 299.6012**

**Source:** 2008 AACS.

**R 299.6013**

**Source:** 2012 AACS.

**WASTE MANAGEMENT DIVISION**  
**HAZARDOUS WASTE MANAGEMENT**

**R 299.6101—R 299.7305**

**Source:** 1997 AACS.

**DEPARTMENT OF NATURAL RESOURCES**  
**REAL ESTATE DIVISION**  
**OIL AND GAS LEASES ON STATE LANDS**

**R 299.8101**

**Source:** 1981 AACS.

**R 299.8102**

**Source:** 1981 AACS.

**R 299.8103**

**Source:** 1981 AACS.

**R 299.8104**

**Source:** 1981 AACS.

**R 299.8105**

**Source:** 1981 AACS.

**R 299.8106**

**Source:** 1981 AACS.

**R 299.8107**

**Source:** 1981 AACS.

**DEPARTMENT OF ENVIRONMENTAL QUALITY**

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**SURFACE WATER QUALITY DIVISION  
WASTEWATER REPORTING**

- R 299.9001**  
Source: 2012 AACS.
- R 299.9002**  
Source: 2012 AACS.
- R 299.9003**  
Source: 2012 AACS.
- R 299.9004**  
Source: 2012 AACS.
- R 299.9005**  
Source: 2012 AACS.
- R 299.9006**  
Source: 2012 AACS.
- R 299.9007**  
Source: 2012 AACS.
- R 299.9008**  
Source: 2012 AACS.
- R 299.9019**  
Source: 2000 AACS.

**WASTE MANAGEMENT DIVISION  
HAZARDOUS WASTE MANAGEMENT**

**PART 1. GENERAL PROVISIONS**

- R 299.9101**  
Source: 2013 AACS.
- R 299.9102**  
Source: 2013 AACS.
- R 299.9103**  
Source: 2013AACS.
- R 299.9104**  
Source: 2013 AACS.
- R 299.9105**  
Source: 2013 AACS.
- R 299.9106**  
Source: 2013 AACS.
- R 299.9107**  
Source: 2013 AACS.

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**R 299.9108**  
Source: 2013 AACS.

**R 299.9109**  
Source: 2004 AACS.

**R 299.9199**  
Source: 1985 AACS.

**PART 2. IDENTIFICATION AND LISTING OF HAZARDOUS WASTE**

**R 299.9201**  
Source: 1998-2000 AACS.

**R 299.9202**  
Source: 2013 AACS.

**R 299.9203**  
Source: 2013 AACS.

**R 299.9204**  
Source: 2013 AACS.

**R 299.9205**  
Source: 2013 AACS.

**R 299.9206**  
Source: 2013 AACS.

**R 299.9207**  
Source: 2013 AACS.

**R 299.9208**  
Source: 1985 AACS.

**R 299.9209**  
Source: 1998-2000 AACS.

**R 299.9210**  
Source: 1998-2000 AACS.

**R 299.9211**  
Source: 1989 AACS.

**R 299.9212**  
Source: 2013 AACS.

**R 299.9213**  
Source: 2013 AACS.

**R 299.9214**  
Source: 1996 AACS.

**R 299.9215**

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Source: 1988 AACS.

**R 299.9216**

Source: 2013 AACS.

**R 299.9217**

Source: 1994 AACS.

**R 299.9218**

Source: 1998-2000 AACS.

**R 299.9219**

Source: 1988 AACS.

**R 299.9220**

Source: 2013 AACS.

**R 299.9221**

Source: 2013 AACS.

**R 299.9222**

Source: 2008 AACS.

**R 299.9223**

Source: 2013 AACS.

**R 299.9224**

Source: 2013 AACS.

**R 299.9225**

Source: 2013 AACS.

**R 299.9226**

Source: 2013 AACS.

**R 299.9227**

Source: 2008 AACS.

**R 299.9228**

Source: 2013 AACS.

**R 299.9229**

Source: 1996 AACS.

**R 299.9230**

Source: 2013 AACS.

**R 299.9231**

Source: 2008 AACS.

**PART 3. GENERATORS OF HAZARDOUS WASTE**

**R 299.9301**

Source: 2013 AACS.

**R 299.9302**

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Source: 1994 AACS.

**R 299.9303**

Source: 2004 AACS.

**R 299.9304**

Source: 2013 AACS.

**R 299.9305**

Source: 2008 AACS.

**R 299.9306**

Source: 2013 AACS.

**R 299.9307**

Source: 2013 AACS.

**R 299.9308**

Source: 2013 AACS.

**R 299.9309**

Source: 2013 AACS.

**R 299.9310**

Source: 2008 AACS.

**R 299.9311**

Source: 1998-2000 AACS.

**R 299.9312**

Source: 2013 AACS.

**R 299.9313**

Source: 2013 AACS.

**PART 4. TRANSPORTERS OF HAZARDOUS WASTE**

**R 299.9401**

Source: 2008 AACS.

**R 299.9402**

Source: 2004 AACS.

**R 299.9403**

Source: 1996 AACS.

**R 299.9404**

Source: 2008 AACS.

**R 299.9405**

Source: 2013 AACS.

**R 299.9406**

Source: 1998-2000 AACS.

**R 299.9407**

Source: 1998-2000 AACS.

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**R 299.9408**  
Source: 1998-2000 AACS.

**R 299.9409**  
Source: 2013 AACS.

**R 299.9410**  
Source: 2004 AACS.

**R 299.9411**  
Source: 1998-2000 AACS.

**R 299.9412**  
Source: 1998-2000 AACS.

**R 299.9413**  
Source: 1998-2000 AACS.

**PART 5. CONSTRUCTION PERMITS AND OPERATING LICENSES**

**R 299.9501**  
Source: 2013 AACS.

**R 299.9502**  
Source: 2013 AACS.

**R 299.9503**  
Source: 2013 AACS.

**R 299.9504**  
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**R 299.9505**  
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**R 299.9506**  
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**R 299.9507**  
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**R 299.9508**  
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**R 299.9509**  
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**R 299.9510**  
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**R 299.9511**  
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**R 299.9513**  
Source: 2013 AACS.

**R 299.9514**  
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**R 299.9515**  
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**R 299.9516**  
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**R 299.9518**  
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**R 299.9521**  
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**R 299.9522**  
Source: 2013 AACS.

**R 299.9523**  
Source: 2013 AACS.

**R 299.9524**  
Source: 2013 AACS.

**R 299.9525**  
Source: 1998-2000 AACS.

**PART 6. OWNERS AND OPERATORS OF HAZARDOUS WASTE TREATMENT,  
STORAGE, AND DISPOSAL FACILITIES**

**R 299.9601**  
Source: 2004 AACS.

**R 299.9602**  
Source: 1998-2000 AACS.

**R 299.9603**  
Source: 2013 AACS.

**R 299.9604**  
Source: 2013 AACS.

**R 299.9605**

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**Source:** 2013 AACS.

**R 299.9606**

**Source:** 1998-2000 AACS.

**R 299.9607**

**Source:** 2013 AACS.

**R 299.9608**

**Source:** 2013 AACS.

**R 299.9609**

**Source:** 2013 AACS.

**R 299.9610**

**Source:** 2013 AACS.

**R 299.9611**

**Source:** 1996 AACS.

**R 299.9612**

**Source:** 2013 AACS.

**R 299.9613**

**Source:** 2008 AACS.

**R 299.9614**

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**R 299.9615**

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**R 299.9618**

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**R 299.9621**

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**R 299.9622**

**Source:** 1998-2000 AACS.

**R 299.9623**

**Source:** 2013 AACS.

**R 299.9624**

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Source: 2004 AACS.

**R 299.9625**

Source: 2004 AACS.

**R 299.9626**

Source: 2004 AACS.

**R 299.9627**

Source: 1998-2000 AACS.

**R 299.9628**

Source: 1991 AACS.

**R 299.9629**

Source: 2013 AACS.

**R 299.9630**

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**R 299.9631**

Source: 1994 AACS.

**R 299.9632**

Source: 1994 AACS.

**R 299.9633**

Source: 1996 AACS.

**R 299.9634**

Source: 1998-2000 AACS.

**R 299.9635**

Source: 2004 AACS.

**R 299.9636**

Source: 1998-2000 AACS.

**R 299.9637**

Source: 1998-2000 AACS.

**R 299.9638**

Source: 1998-2000 AACS.

**R 299.9639**

Source: 2004 AACS.

**R 299.9640**

Source: 2013 AACS.

**PART 7. FINANCIAL CAPABILITY**

**R 299.9701**

Source: 1998-2000 AACS.

**R 299.9702**

Source: 1988 AACS.

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**R 299.9703**  
Source: 2004 AACS.

**R 299.9704**  
Source: 1988 AACS.

**R 299.9705**  
Source: 2008 AACS.

**R 299.9706**  
Source: 2013 AACS.

**R 299.9707**  
Source: 1985 AACS.

**R 299.9708**  
Source: 2013 AACS.

**R 299.9709**  
Source: 1998-2000 AACS.

**R 299.9710**  
Source: 2008 AACS.

**R 299.9711**  
Source: 1998-2000 AACS.

**R 299.9712**  
Source: 1998-2000 AACS.

**R 299.9713**  
Source: 1996 AACS.

**PART 8. MANAGEMENT OF SPECIFIC HAZARDOUS WASTES, SPECIFIC TYPES OF HAZARDOUS WASTE  
MANAGEMENT FACILITIES, AND USED OIL**

**R 299.9801**  
Source: 2013 AACS.

**R 299.9802**  
Source: 1997 AACS.

**R 299.9803**  
Source: 1998-2000 AACS.

**R 299.9804**  
Source: 2013 AACS.

**R 299.9805**  
Source: 1997 AACS.

**R 299.9806**  
Source: 1997 AACS.

**R 299.9807**  
Source: 1997 AACS.

**R 299.9808**

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**Source:** 2013 AACS.

**R 299.9809**

**Source:** 2004 AACS.

**R 299.9810**

**Source:** 1996 AACS.

**R 299.9811**

**Source:** 1996 AACS.

**R 299.9812**

**Source:** 1996 AACS.

**R 299.9813**

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**R 299.9814**

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**R 299.9815**

**Source:** 2004 AACS.

**R 299.9816**

**Source:** 1996 AACS.

**R 299.9817**

**Source:** 1998-2000 AACS.

**R 299.9818**

**Source:** 1998-2000 AACS.

**R 299.9819**

**Source:** 2004 AACS.

**R 299.9820**

**Source:** 1998-2000 AACS.

**R 299.9821**

**Source:** 2013 AACS.

**R 299.9822**

**Source:** 2013 AACS.

**R 299.9823**

**Source:** 2004 AACS.

**PART 9. HAZARDOUS WASTE SERVICE FUND**

**R 299.9901**

**Source:** 1988 AACS.

**R 299.9902**

**Source:** 1998-2000 AACS.

**R 299.9903**

**Source:** 1988 AACS.

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**R 299.9904**  
Source: 2013 AACS.

**R 299.9905**  
Source: 2013 AACS.

**R 299.9906**  
Source: 2013 AACS.

**PART 10. AVAILABILITY OF REFERENCED MATERIALS**

**R 299.11001**  
Source: 2013 AACS.

**R 299.11002**  
Source: 2013 AACS.

**R 299.11003**  
Source: 2013 AACS.

**R 299.11004**  
Source: 2013 AACS.

**R 299.11005**  
Source: 2013 AACS.

**R 299.11006**  
Source: 2004 AACS.

**R 299.11007**  
Source: 2004 AACS.

**R 299.11008**  
Source: 2004 AACS.

**R 299.11009**  
Source: 2013 AACS.

**PART 11. CERTIFIED LOCAL HEALTH DEPARTMENTS**

**R 299.11101**  
Source: 2013 AACS.

**R 299.11102**  
Source: 2013 AACS.

**R 299.11103**  
Source: 2013 AACS.

**R 299.11104**  
Source: 2013 AACS.

**R 299.11105**  
Source: 2013 AACS.

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**R 299.11106**  
Source: 2013 AACS.

**R 299.11107**  
Source: 2013 AACS.

**SOLID WASTE ALTERNATIVES PROGRAM**

**PART 1. GENERAL PROVISIONS**

**R 299.12101**  
Source: 2012 AACS.

**PART 2. ELIGIBILITY**

**R 299.12201**  
Source: 2012 AACS.

**R 299.12202**  
Source: 2012 AACS.

**R 299.12203**  
Source: 2012 AACS.

**R 299.12204**  
Source: 2012 AACS.

**R 299.12205**  
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**R 299.12206**  
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**R 299.12207**  
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**R 299.12208**  
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**R 299.12209**  
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**R 299.12210**  
Source: 2012 AACS.

**R 299.12211**  
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**R 299.12212**  
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**R 299.12213**  
Source: 2012 AACS.

**R 299.12214**  
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**R 299.12215**  
Source: 2012 AACS.

**PART 3. APPLICATIONS**

**R 299.12301**  
Source: 2012 AACS.

**R 299.12302**  
Source: 2012 AACS.

**PART 4. WASTE REDUCTION AND RECOVERY PROJECT CATEGORIES**

**R 299.12401**  
Source: 2012 AACS.

**R 299.12402**  
Source: 2012 AACS.

**R 299.12403**  
Source: 2012 AACS.

**R 299.12404**  
Source: 2012 AACS.

**R 299.12405**  
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**R 299.12406**  
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**R 299.12407**  
Source: 2012 AACS.

**R 299.12408**  
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**R 299.12409**  
Source: 2012 AACS.

**PART 5. CLOSURE AND TRANSFER STATIONS**

**R 299.12501**  
Source: 2012 AACS.

**R 299.12502**  
Source: 2012 AACS.

**R 299.12503**  
Source: 2012 AACS.

**R 299.12504**  
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**R 299.12505**  
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**R 299.12506**  
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**R 299.12507**  
Source: 2012 AACS.

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**R 299.12508**  
Source: 2012 AACS.

**R 299.12509**  
Source: 2012 AACS.

**R 299.12510**  
Source: 2012 AACS.

**R 299.12511**  
Source: 2012 AACS.

**R 299.12512**  
Source: 2012 AACS.

**R 299.12513**  
Source: 2012 AACS.

**R 299.12514**  
Source: 2012 AACS.

**R 299.12515**  
Source: 2012 AACS.

**PART 6. SOLID WASTE PROGRAM ADMINISTRATION**

**R 299.12601**  
Source: 2012 AACS.

**R 299.12602**  
Source: 2012 AACS.

**R 299.12603**  
Source: 2012 AACS.

**R 299.12604**  
Source: 2012 AACS.

**R 299.12605**  
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**R 299.12606**  
Source: 2012 AACS.

**R 299.12607**  
Source: 2012 AACS.

**R 299.12608**  
Source: 2012 AACS.

**R 299.12609**  
Source: 2012 AACS.

**R 299.12610**  
Source: 2012 AACS.

**R 299.12611**

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Source: 2012 AACS.

**R 299.12612**

Source: 2012 AACS.

**R 299.12613**

Source: 2012 AACS.

**R 299.12614**

Source: 2012 AACS.

**R 299.12615**

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**R 299.12616**

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**R 299.12617**

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**R 299.12618**

Source: 2012 AACS.

**R 299.12619**

Source: 2012 AACS.

**R 299.12620**

Source: 2012 AACS.

**R 299.12621**

Source: 2012 AACS.

**PART 7. STATE SOLID WASTE PROJECTS**

**R 299.12701**

Source: 2012 AACS.

**DEPARTMENT OF ENVIRONMENTAL QUALITY**

**ENVIRONMENTAL RESPONSE DIVISION**

**ENVIRONMENTAL CONTAMINATION RESPONSE ACTIVITY**

**PART 10. COMPLIANCE WITH SECTION 20107a OF ACT**

**R 299.51001**

Source: 1998-2000 AACS.

**R 299.51003**

Source: 1998-2000 AACS.

**R. 299.51005**

Source: 1998-2000 AACS.

**R 299.51007**

Source: 1998-2000 AACS.

**R 299.51009**

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Source: 1998-2000 AACS.

**R 299.51011**

Source: 1998-2000 AACS.

**R 299.51013**

Source: 1998-2000 AACS.

**R 299.51015**

Source: 1998-2000 AACS.

**R 299.51017**

Source: 1998-2000 AACS.

**R 299.51019**

Source: 1998-2000 AACS.

**R 299.51021**

Source: 1998-2000 AACS.