

## Chapter NR 258

### MEAT PRODUCTS

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**NR 258.01 Purpose.** The purpose of this chapter is to establish effluent limitations, standards of performance, and pretreatment standards for discharges from the meat products category of point sources and subcategories thereof.

**Note:** The authority for promulgation of this chapter is set forth in ch. NR 205.

**History:** Cr. Register, June, 1976, No. 246, eff. 7-1-76.

**NR 258.02 Applicability.** The effluent limitations, standards of performance, and pretreatment standards in this chapter are applicable to pollutants or pollutant properties in discharges resulting from operations of facilities in any of the following subcategories as defined in s. NR 258.03:

- c1d** Simple slaughterhouse,
- c2d** Complex slaughterhouse,
- c3d** Low-processing packinghouse,
- c4d** High-processing packinghouse,
- c5d** Small processor,
- c6d** Meat cutter,
- c7d** Sausage and luncheon meat processor,
- c8d** Ham processor,
- c9d** Canned meat processor, and
- c10d** Renderer.

**History:** Cr. Register, June, 1976, No. 246, eff. 7-1-76.

**NR 258.03 Definitions.** The following definitions are applicable to terms used in this chapter. Definitions of other terms and meanings of abbreviations are set forth in ch. NR 205.

**c1d** XSlaughterhouseY means a plant that slaughters animals and has as its main product fresh meat as whole, half or quarter carcasses or smaller meat cuts.

**c2d** XComplex slaughterhouseY means a slaughterhouse that accomplishes extensive byproduct processing, usually at least 3 of such operations as rendering, paunch and viscera handling, blood processing, hide processing, or hair processing.

**c3d** XSimple slaughterhouseY means a slaughterhouse which accomplishes very limited byproduct processing, if any, usually no more than 2 of such operations as rendering, paunch and viscera handling, blood processing, hide processing, or hair processing.

**c4d** XPackinghouseY means a plant that both slaughters animals and subsequently processes carcasses into cured, smoked, canned or other prepared meat products.

**c5d** XHigh-processing packinghouseY means a packinghouse which processes both animals slaughtered at the site and additional carcasses from outside sources.

**c6d** XLow-processing packinghouseY means a packinghouse that processes no more than the total animals killed at that plant, normally processing less than the total kill.

**c7d** XSmall processorY means an operation that produces up to 6000 pounds per day of any type or combination of finished products.

**c8d** XMeat cutterY means an operation which fabricates, cuts, or otherwise produces fresh meat cuts and related finished products from livestock carcasses at rates greater than 6000 pounds per day.

**c9d** XSausage and luncheon meat processorY means an operation which cuts fresh meats, grinds, mixes, seasons, smokes, or otherwise produces finished products such as sausage, bologna, and luncheon meats at rates greater than 6000 pounds per day.

**c10d** XHam processorY means an operation which manufactures hams alone or in combination with other finished products at rates greater than 6000 pounds per day.

**c11d** XCanned meat processorY means an operation which prepares and cans meats such as stew, sandwich spreads, or similar products alone or in combination with other finished products at rates greater than 6000 pounds per day.

**c12d** XRendererY means an independent or off-site rendering operation conducted separate from a slaughterhouse, packinghouse, or poultry dressing or processing plant which manufactures at rates greater than 75,000 pounds per day meat meal, tankage, animal fats or oils, grease, and tallow, and may cure cattle hides, but excluding marine oils, fish meal, and fish oils.

**c13d** XLWKY means live weight killed and is the total weight of the total number of animals slaughtered during the time to which the effluent limitations apply, i.e., during any one day or any period of 30 consecutive days.

**c14d** XELWKY means equivalent live weight killed and is the total weight of the total number of animals slaughtered at locations other than the slaughterhouse or packinghouse, which animals provide hides, blood viscera or renderable materials for processing at that slaughterhouse, in addition to those derived from animals slaughtered on site.

**c15d** XOil and greaseY means those components of process wastewater amenable to measurement by the methods approved for oil and grease listed in ch. NR 219.

**c16d** XRaw materialY or XRMYY means for a renderer the basic input materials composed of animal and poultry trimmings, bones, meat scraps, dead animals, feathers and related usable byproducts.

**c17d** XTallowY means a product made from beef cattle or sheep fat that has a melting point of 40° C or greater.

**c18d** XTankageY means dried animal byproduct residues used in feedstuffs.

**c19d** XFinished productY means as appropriate;

cad For a small processor such final manufactured products as fresh meat cuts, hams, bacon or other smoked meats, sausage, luncheon meats, stew, canned meats, or related products,

cbd For a meat cutter such final manufactured products as meat cuts including but not limited to steaks, roasts, chops, or boneless meats.

ccd For a sausage and luncheon meat processor such final

manufactured products as fresh meat cuts including steaks, roast, chops, or boneless meats, bacon or other smoked meats except hamsd such as sausage, bologna or other luncheon meats, or related products except canned meats,

cdd For a ham processor such final manufactured products as fresh meat cuts including steaks, roasts, chops, or boneless meat, smoked or cured hams, bacon, or other smoked meats, sausage, bologna or other luncheon meats except canned meats, or

ced For a canned meat processor such final manufactured products as fresh meat cuts, including steaks, roasts, chops, or boneless meat, hams, bacon, or other smoked meats, sausage, bologna, or other luncheon meats, stews, sandwich spread, or other canned meats.

**History:** Cr. Register, June, 1976, No. 246, eff. 7-1-76; correction made to c15d under s. 13.92 c4d cbd 6., Stats., Register April 2013 No. 688; CR 17-046: am. c15d Register February 2021 No.782, eff. 6-29-21; correction in c15d made under s. 35.17, Stats., Register February 2021 No. 782.

**NR 258.04 Compliance with effluent limitations and standards.** Discharge of pollutants from facilities subject to the provisions of this chapter may not exceed, as appropriate:

**c1d** By July 1, 1977 effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available;

**c2d** By July 1, 1983 effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable;

**c3d** Pretreatment standards for discharges to publicly owned treatment works;

**c4d** Standards of performance for new sources.

**History:** Cr. Register, June, 1976, No. 246, eff. 7-1-76; r. and recr. Register, August, 1983, No. 332, eff. 9-1-83.

**NR 258.06 Application of effluent limitations and standards.** c1d The effluent limitations and standards set forth in this chapter shall be used in accordance with this section to establish the quantity or quality of pollutants or pollutant properties which may be discharged by a point source subject to the provisions of this chapter, except as:

cad They may be modified in accordance with subch. IV of ch. NR 220,

cbd They may be superseded by more stringent limitations and standards necessary to achieve water quality standards or meet other legal requirements, or

ccd They may be supplemented or superseded by standards or prohibitions for toxic pollutants or by additional limitations for other pollutants required to achieve water quality.

**c2d** The production basis for application of the limitations

and standards set forth in this chapter shall be the daily average of annual production in each subcategory subject to the provisions of this chapter.

**c3d** The effluent limitations of ss. NR 258.10, 258.11, and 258.12 shall be applied to discharges from any single facility subject to the provisions of this chapter by:

cad Determining to which of subcategories c1d to c10d such facility belongs,

cbd Calculating the discharge limitations from the appropriate effluent limitations for such category on the basis of the production or the LWK of animals slaughtered in said facility, and

ccd For subcategories c1d through c4d increasing such discharge limitations by the amounts calculated using appropriate effluent limitations for rendering and hide or blood processing operations on the basis of the ELWK of raw materials so processed resulting from animals slaughtered elsewhere than in said facility.

**History:** Cr. Register, June, 1976, No. 246, eff. 7-1-76; correction in c1d cad made under s. 13.92 c4d cbd 7, Stats., Register April 2018 No. 748.

**NR 258.10 Effluent limitations, best practicable treatment.** The following effluent limitations when applied in accordance with s. NR 258.06 establish the quantity or quality of pollutants or pollutant properties which may be discharged by a facility subject to the provisions of this chapter after application to process wastes of the best practicable control technology currently available.

**c1d** All discharges shall be within the pH range of 6.0 to 9.0.

**c2d** The fecal coliform of all discharges except those from the small processor subcategory shall not exceed an MPN of 400{100ml.

**c3d** The BOD<sub>5</sub>, suspended solids, and oil and grease 30 day average limitations are set forth in table 1. The daily maximum limitations are 2 times the 30 day average values. The limitations of table 1 may be modified for the renderer subcategory in accordance with sub. c4d.

**c4d** For a renderer who conducts hide curing the effluent limitations for the renderer subcategory in table 1 shall be increased by adding:

cad To the limitation for BOD<sub>5</sub> the value resulting from dividing the number of hides cured by their weight in pounds and multiplying by 17.6, or by their weight in kilograms and multiplying by 8.0, and

cbd To the limitations for suspended solids the value resulting from dividing the number of hides cured by their weight in pounds and multiplying by 24.2, or by their weight in kilograms and multiplying by 11.0.

**Table 1**

Subcategory	BOD <sub>5</sub>	BPT Effluent Limitations	
		Suspended Solids cin lbs{1000 lbs. or kg{1000 kg{LWKd	Oil and Grease cin lbs{1000 lbs. or kg{1000 kg, of finished productd
Simple slaughterhouse	0.12	0.20	0.06
Complex slaughterhouse	0.21	0.25	0.08
Low-processing packinghouse	0.17	0.24	0.08
High-processing packinghouse	note c1d	note c2d	0.13
Small processor	1.0	1.2	0.5
Meat cutter	0.018	0.022	0.006
Sausage & luncheon meat processor	0.28	0.34	0.10
Ham processor	0.31	0.37	0.11
Canned meat processor	0.37	0.45	0.13
Renderer	0.17	0.21	0.10
Operations			cin lbs{1000 lbs. or kg{1000 kg, of RMD
Hide processing	0.02	0.04	cin lbs{1000 lbs. or kg{1000 kg, ELWKd

Subcategory	BOD <sub>5</sub>	BPT Effluent Limitations Suspended Solids	Oil and Grease
Blood processing	0.02	0.04	
Rendering, wet or low temperature	0.03	0.06	
Rendering, dry	0.01	0.02	

**Note:** c1d Limitation is calculated using the formula  $0.21X0.23cV-0.4d$  where V is the lb processed meat products{lb LWK.

c2d Limitation is calculated using the formula  $0.28X0.30cV-0.4d$  where V is the same as note c1d.

**History:** Cr. Register, June, 1976, No. 246, eff. 7-1-76.

**NR 258.11 Effluent limitations, best available treatment.** The following effluent limitations when applied in accordance with s. NR 258.06 establish the quantity or quality of pollutants or pollutant properties which may be discharged by a facility subject to the provisions of this chapter after application to process wastes of the best available technology economically achievable.

**c1d** The pH of all discharges shall be within the range of 6.0 to 9.0.

**c2d** The fecal coliform of all discharges except those from the small processor subcategory shall not exceed an MPN of 400{100 ml.

**c3d** The oil and grease content of discharges for the first 4 subcategories of table 2 shall not exceed 10 mg{l.

**c4d** The ammonia content of all discharges except for the small processor and renderer subcategories shall not exceed 4 mg{l on a 30-day average basis nor a daily maximum of 8 mg{l. The effluent limitation for ammonia for discharges from the ren-

derer subcategory shall be a 30 day average of 0.02 and a daily maximum of 0.04 lbs{1000 lbs. or kg{1000 kg. of raw material.

**c5d** The BOD<sub>5</sub>, suspended solids, and oil and grease 30 day average limitations are set forth in table 2. The daily maximum limitations are 2 times the 30 day average values. The limitations of table 2 may be modified for the renderer subcategory in accordance with sub. c6d.

**c6d** For a renderer who conducts hide curing the effluent limitations for the renderer subcategory in table 2 shall be increased by adding:

cad To the limitation for BOD<sub>5</sub> the value resulting from dividing the number of hides cured by their weight in pounds and multiplying by 7.9, or by their weight in kilograms and multiplying by 3.6 and

cbd To the limitations for suspended solids the value resulting from dividing the number of hides cured by their weight in pounds and multiplying by 13.6, or by their weight in kilograms and multiplying by 6.2.

**Table 2**

Subcategory	BOD <sub>5</sub>	BAT Effluent Limitations Suspended Solids	Oil and Grease
Simple slaughterhouse	0.03	0.05	
Complex slaughterhouse	0.04	0.07	
Low-processing packinghouse	0.04	0.06	
High-processing packinghouse	note c1d	note c2d	
Small processor	0.5	0.6	0.25
Meat cutter	0.009	0.012	0.006
Sausage & luncheon meat processor	0.14	0.19	0.10
Ham processor	0.16	0.21	0.11
Canned meat processor	0.17	0.22	0.13
Renderer	0.07	0.10	0.05
Operations			
Blood processing	0.007	0.013	
Rendering, wet or low temperature	0.01	0.02	
Rendering, dry	0.003	0.007	

**Note:** c1d The limitation is calculated using the formula  $0.07X0.08cV-0.4d$  where V is the lb processed meat products{lb LWK. c2d The limitation is calculated using the formula  $0.09X0.10cV-0.4d$  where V is the same as note c1d.

**History:** Cr. Register, June, 1976, No. 246, eff. 7-1-76.

**NR 258.12 Standards of performance.** The following effluent limitations when applied in accordance with s. NR 258.06 establish the quantity or quality of pollutants or pollutant properties which may be discharged by a new source subject to the provisions of this chapter.

**c1d** The pH of all discharges shall be within the range of 6.0 to 9.0.

**c2d** The fecal coliform of all discharges except those from the small processor subcategory shall not exceed an MPN of 400{100 ml.

**c3d** The BOD<sub>5</sub>, suspended solids, oil and grease, and ammonia 30 day average limitations are set forth in table 3. The daily maximum limitations are 2 times the 30 day average values.

**c4d** For a renderer who conducts hide curing the effluent limitations for the renderer subcategory in table 3 shall be increased by adding:

cad To the limitation for BOD<sub>5</sub> the value resulting from dividing the number of hides cured by their weight in pounds and multiplying by 7.9, or by their weight in kilograms and multiplying by 3.6, and

cbd To the limitations for suspended solids the value resulting from dividing the number of hides cured by their weight in pounds and multiplying by 13.6, or by their weight in kilograms and multiplying by 6.2.

Table 3

Subcategory	BOD <sub>5</sub>	Standards of Performance Effluent Limitations		
		Suspended Solids	Oil and Grease	Ammonia
			cin lbs{1000 lbs. LWK, or kg{1000 kg. LWKd	
Simple slaughterhouse	0.12	0.20	0.06	0.17
Complex slaughterhouse	0.21	0.25	0.08	0.24
Low-processing packinghouse	0.17	0.24	0.08	0.24
High-processing packinghouse	note c1d	note c2d	0.13	0.40
			cin lbs{1000 lbs. or kg{1000 kg. of finished productd	
Small processor	0.5	0.6	0.25	
Meat cutter	0.015	0.018	0.006	
Sausage & luncheon meat processor	0.24	0.29	0.10	
Ham processor	0.31	0.37	0.11	
Canned meat processor	0.37	0.45	0.13	
			cin lbs{1000 lbs. or kg{1000 kg. of RMd	
Renderer	0.17	0.21	0.10	0.17
			cin lbs{1000 lbs. ELWK, or kg{1000 kg. ELWKd	
Operations				
Hide processing	0.02	0.04		
Blood processing	0.02	0.04		0.03
Rendering, wet or low temperature	0.03	0.06		0.05
Rendering, dry	0.01	0.02		0.02

**Note:** c1d Limitation is calculated using the formula  $0.21 + 0.23 cV - 0.4d$  where V is the lb processed meat products{lb LWK.

Limitation is calculated using the formula  $0.28 + 0.30 cV - 0.4d$  where V is the same as note c1d.

**History:** Cr. Register, June, 1976, No. 246, eff. 7-1-76.

**NR 258.13 Pretreatment standards.** The pretreatment standards for discharges to publicly owned treatment works from sources subject to the provisions of this chapter shall be as set forth in ch. NR 211.

**History:** Cr. Register, June, 1976, No. 246, eff. 7-1-76; r. and recr. Register, August, 1983, No. 332, eff. 9-1-83