

3

Animal Product
Manual

Reference

Animal Waste and Related By-Products

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Introduction

The *Animal Waste and Related By-Products* section covers animal by-products which have been naturally discharged or released as waste, are leftover parts of carcasses, or are leftover by-products. Animal waste and related by-products are usually dried, ready to be used as animal feed or fertilizer, processed into glue, or manufactured. Following are examples of animal waste and related by-products:

- ◆ Manure of livestock (horse, ruminant, swine, poultry and/or birds) or other mammals such as bats (guano). Manure is the feces of livestock and poultry, with or **without** litter. Bat guano is regulated because of possible contamination with bird feathers and manure
- ◆ Urine of livestock and poultry. The feces of birds and bats includes a urine component
- ◆ Feces and urine of **other than** livestock for analysis and diagnosis. These by-products originate from felines (cats), canines (dogs), laboratory mammals (rats, mice, gerbils, guinea pigs, rabbits, and hamsters), amphibians, reptiles, fish, and marine mammals
- ◆ Glue stock, which consists of hide cuttings, tendons, or other collagenous parts of animal carcasses
- ◆ Glue made from hide (hide glue) or bone (bone glue). This may be imported as granules, flakes, or powder. Regulate as animal glue
- ◆ Vomitus of birds of prey in the form of pellets
- ◆ Rendered products for animal feed or fertilizer. These products are usually finely ground and rendered and include blood meal, bone meal, feather meal, fish emulsion, fish hydrolysate, horn and hoof meal, meat meal, and tankage
- ◆ Processed animal proteins. These are products which are processed by cooking or drying, but are **not** considered to be rendered



Rendered products and processed protein products from countries affected with BSE are **prohibited** entry unless accompanied by a VS-issued permit.

- ◆ Collagen as bulk or a component of, for use in cosmetics, cell culture media, and reagents

Not covered in this section are the following animal products and by-products:

- ◆ Dried blood such as spray dried blood and freeze dried blood (except for that from countries affected with BSE); regulate these products as ***Blood and Related By-Products*** on **page 3-3-1**
- ◆ Cartilage and ossein; regulate these products as ***Bones and Related By-Products*** on **page 3-4-1**
- ◆ Collagen casings; regulate these products as ***Casings*** on **page 3-5-1**
- ◆ Finished suture material derived from intestines and packed in liquid; this material is unrestricted

When a VS permit authorizes entry of the animal waste or related by-product, match the shipping documents with the information on the permit that follows:

- ◆ Current date
- ◆ Description of the material
- ◆ Shipper
- ◆ Consignee
- ◆ Conditions spelled out on the permit

Follow [Table 3-2-1](#) as you match the permit with the shipping documents.

TABLE 3-2-1 Validate Importation Authorized Entry by a VS Permit

If the importation is:	And the shipping documents:	And the:	Then:
Authorized entry by a VS permit	Match the permit	→	RELEASE or CONTROL as specified on the permit
	Do not match the permit	Permit has expired	<ol style="list-style-type: none"> 1. DO NOT RELEASE the HOLD 2. HAVE the consignee contact VS, TTSPS (see Table 2-4-16) 3. SAFEGUARD the importation until you hear from VS, TTSPS
		Discrepancy is other than an expired permit	<ol style="list-style-type: none"> 1. DO NOT RELEASE the HOLD 2. CONTACT PPQ-AQI-VMO or PPQ-VRS-Headquarters Personnel for further action (see Appendix H)

Locator

When a VS permit **does not** accompany an importation of the animal waste or related by-products, use [Table 3-2-2](#) to determine the appropriate regulatory action to take.

TABLE 3-2-2 Where to Find the Regulatory Action on Animal Waste or Related By-Products that Are Not Authorized by a VS Permit

If the importation is:	And the importation is:	Then:
Animal waste or related by-products that are not authorized entry by a VS permit	<ul style="list-style-type: none"> ◆ Feces ◆ Guano ◆ Manure ◆ Urine 	GO to Table 3-2-3 on page 3-2-5
	Collagen ¹	GO to Table 3-2-9 on page 3-2-10
	Animal glue ²	RELEASE
	<ul style="list-style-type: none"> ◆ Dried intestines ◆ Glue stock 	GO to Table 3-2-8 on page 3-2-9
	Pellets from birds of prey (eagles, falcons, hawks, ospreys, owls, and vultures)	GO to Table 3-2-14 on page 3-2-14
	<ul style="list-style-type: none"> ◆ Rendered products ◆ Processed proteins 	GO to Table 3-2-15 on page 3-2-16
	Other animal waste products that have not been fully processed and are not considered to be rendered from a country free from BSE	GO to Table 3-2-20 on page 3-2-22
	Animal waste and related by-products other than described above	<ol style="list-style-type: none"> 1. DO NOT RELEASE the HOLD 2. CONTACT PPQ-VRS-AQI or PPQ-VRS-HQ personnel for further action (see Appendix H)

- 1 If collagen casings, see the *Reference* section for [Casings](#).
- 2 Animal glue includes bone glue, hide glue, inedible or nonedible gelatin, and technical gelatin. If the importer, label, or any document suggests that the animal glue is edible, then regulate as gelatin under [Bones and Related By-Products](#).

Feces, Guano, Manure, or Urine

TABLE 3-2-3 Feces, Guano, Manure, or Urine

If:	And from:	Then:
<ul style="list-style-type: none"> ◆ Feces ◆ Guano ◆ Manure ◆ Urine 	Bat	GO to Table 3-2-4
	Bird	GO to Table 3-2-5
	Laboratory animal	GO to Live Laboratory Mammals and Their Associated Materials for Research Purpose on page 3-8-9
	Livestock species, specifically <ul style="list-style-type: none"> ◆ Horse (equine) ◆ Ruminant ◆ Swine 	GO to Table 3-2-7
	Unknown animal class	<ol style="list-style-type: none"> 1. DO NOT RELEASE the HOLD 2. CONTACT PPQ-VRS-AQI or PPQ-VRS-HQ personnel for further action (see Appendix H)

Bat Guano

TABLE 3-2-4 Bat Guano

If:	And:	And your inspection reveals:	Then:
Bat guano	Is accompanied by the producer's or shipper's declaration ¹	No contamination with feathers or other manure that would be evidence that the guano is from other than bats	INSPECT and RELEASE
		Evidence that indicates the guano is from other than bats	1. DO NOT RELEASE the HOLD 2. PROVIDE the importer with the appropriate options (see Table 2-2-11)
	Lacks the producer's/shipper's declaration ¹	→	REFUSE ENTRY

1 An **original** written declaration and signed statements on the producer's or shipper's letterhead which states and affirms in a clear and concise manner, the following information:

- ◆ The guano is of bat origin (identification of the material and species of origin)

Bird Guano and Manure

TABLE 3-2-5 Bird Guano and Manure

If the importation is:	And the condition of the bird guano is:	And the country or region of export is:	And:	Then:
Bird guano, usually from sea birds (all supplies of fossilized guano have been exhausted)	<ul style="list-style-type: none"> ◆ Pelleted (subjected to heat through a normal pelletizing process) ◆ Powdered 	<ul style="list-style-type: none"> ◆ Affected with HPAI (H5N1) only ◆ Affected with a combination of HPAI (H5N1) and END ◆ Affected with END only 	Is accompanied by a VS permit	RELEASE or CONTROL as specified on the permit
			Lacks a VS permit	REFUSE ENTRY
		Free from both HPAI (H5N1) and END	Is accompanied by a government of origin certificate ¹	INSPECT and RELEASE
			Lacks the required certification	GO to Table 3-2-6
Other than described above		—————→		<ol style="list-style-type: none"> 1. DO NOT RELEASE the HOLD 2. CONTACT PPQ-VRS-AQI or PPQ-VRS-HQ personnel for further action (see Appendix H)
Other than bird guano, e.g., poultry manure		—————→		<ol style="list-style-type: none"> 1. DO NOT RELEASE the HOLD 2. HAVE the consignee contact VS, TTSPS (see page 2-4-26)

¹ If from Peru, also accept a certificate issued by a veterinarian working for PESCA PERU.

Powdered Bird Guano that Lacks Certification and from a Country Free from HPAI (H5N1) and END

TABLE 3-2-6 Powdered Bird Guano that Lacks Certification and Is from a Country Free from HPAI (H5N1) and END

If:	And the country or region of export is:	And is:	Then:
Powdered bird guano that lacks certification	Free from both HPAI (H5N1) and END	Consigned to an approved establishment (pelletizing facility)	AUTHORIZE shipment under seal with VS 16-78 (see VS Form 16-78, Report of Entry, Shipment of Restricted Imported Animal Products and Animal By-Products, and Other Material on page K-1-23 to complete the form)
		Not consigned to an approved establishment	<ol style="list-style-type: none"> 1. DO NOT RELEASE the HOLD 2. PROVIDE the importer with the appropriate options (see Table 2-2-11)

Livestock Feces, Manure, and Urine

TABLE 3-2-7 Livestock Feces, Manure, or Urine

If the importation is:	And is derived from:	And the country or region of export is:	And the importation:	Then:		
<ul style="list-style-type: none"> ◆ Feces ◆ Manure 	<ul style="list-style-type: none"> ◆ Equine (horse) ◆ Swine 		Is accompanied by a VS permit	RELEASE		
			Lacks a VS permit	REFUSE ENTRY		
	Ruminant	Affected with BSE		REFUSE ENTRY		
				Minimal risk for BSE ¹	Is accompanied by a VS permit	RELEASE
					Lacks a VS permit	REFUSE ENTRY
				Free of BSE	Is accompanied by a VS permit	RELEASE
Lacks a VS permit	REFUSE ENTRY					
Urine		Is accompanied by a VS permit	RELEASE			
		Lacks a VS permit	REFUSE ENTRY			

1 Currently Canada is the **only** country designated at minimal risk for BSE.

Animal Waste for Manufacturing (Industrial Use)

Parts of animal carcasses which may include the following, imported for manufacturing such as making glue:

- ◆ Collagen and collagenous parts, such as connective tissue, sinews, and dried intestines
- ◆ Glue stock and hide glue

Animal Glue, Glue Stock, and Gut Strings

TABLE 3-2-8 Animal Waste for Manufacturing or Industrial Use (Animal Glue, Glue Stock, and Gut Strings)

If the importation is:	And the animal class of the by-product is from:	And the country or region of export is:	Then:
Animal glue	—————→	—————→	RELEASE
Collagen and collagenous products	—————→	—————→	GO TO Table 3-2-9
Glue stock	Equine	—————→	RELEASE
	Ruminant	Free from BSE and FMD	GO to Table 3-2-12
		Free from BSE, but affected with FMD	
		Affected with BSE or with both BSE and FMD	
	Swine	Free from ASF, CSF, FMD, and SVD	RELEASE
		Affected with ASF, CSF, FMD, or SVD	GO to Table 3-2-13
An animal class other than listed above, or the animal class is unknown	—————→		
Ready-to-use suture materials and gut strings (for instruments and racquets)	—————→	—————→	RELEASE

Collagen and Collagenous Products

TABLE 3-2-9 Collagen and Collagenous Products

If the importation is:	And the importation is derived from:	And the country or region of export is:	And:	Then:	
<ul style="list-style-type: none"> ◆ Collagen ◆ Collagenous products 	<ul style="list-style-type: none"> ◆ Equine ◆ Poultry ◆ Swine 	—————→	Is accompanied by a VS permit	RELEASE or CONTROL as specified on the permit	
		—————→	Lacks a VS permit	REFUSE ENTRY	
	◆ Ruminant	Affected with BSE	—————→		GO to Table 3-2-10
		Free from BSE		Is accompanied by a VS permit	RELEASE or CONTROL as specified on the permit
				Lacks a VS permit	REFUSE ENTRY
	<ul style="list-style-type: none"> ◆ Other than listed above ◆ Unknown animal class 	—————→		Is accompanied by a certificate showing the species and country of origin	RELEASE
—————→			Lacks the proper certification	REFUSE ENTRY	

Collagen and Collagenous Parts or Products of Ruminants from a Country Known to Be Affected with BSE

TABLE 3-2-10 Collagen and Collagenous Parts or Products of Ruminants from a Country Known to Be Affected with BSE

If the importation is:	And the country or region of export is:	And the importation is:	And the intended use of the product is:	And the source of the collagen or collagenous parts is:	And the importation:	Then:
<ul style="list-style-type: none"> ◆ Collagen from ruminants ◆ Collagenous parts or products from ruminants 	Affected with BSE	Not reconstituted collagen casings from ruminant collagen	Ingredient in cosmetics	→	Is accompanied by a VS permit	RELEASE
				→	Lacks a VS permit	REFUSE ENTRY
			Other than an ingredient in cosmetics	Ruminant hide	Is accompanied by a VS permit	RELEASE
				Lacks a VS permit	REFUSE ENTRY	
		Other than ruminant hide	→	REFUSE ENTRY		
Reconstituted collagen casings from ruminant collagen	→	GO to Table 3-5-2 on page 3-5-4				

Ruminant Glue Stock from a Country Affected with BSE

TABLE 3-2-11 Ruminant Glue Stock or Hide Glue from a Country Affected with BSE

If the importation is:	And the country or region of export is:	And the importation is derived from:	And the importation:	Then:
◆ Ruminant glue ◆ Stock or hide glue	Affected with BSE	Hide cuttings or parings	Is accompanied by a VS import permit	RELEASE
			Lacks a VS import permit	REFUSE ENTRY
		Fleshings, tendons, or other collagenous parts	—————→	REFUSE ENTRY

Ruminant Glue Stock from a Country Affected with FMD

Review the accompanying documentation or inspect the importation to determine if the glue stock is hard dried or flint dried.

TABLE 3-2-12 Ruminant Glue Stock from a Country Affected with FMD

If:	And the country or region of export is:	And the glue stock is:	And the importation is:	Then:
Ruminant glue stock	Affected with FMD	Hard dried or flint dried	—————→	RELEASE
		Not hard dried or flint dried	Consigned to an approved establishment	AUTHORIZE shipment under seal with VS 16-78 (see Appendix K for completing form)
			Not consigned to an approved establishment	1. DO NOT RELEASE the HOLD 2. PROVIDE the importer with the appropriate options (see Table 2-2-11)

Swine Glue Stock from a Country Affected with ASF, CSF, FMD, or SVD; or Glue Stock from an Unknown Animal Class

TABLE 3-2-13 Swine Glue Stock from a Country Affected with ASF, CSF, FMD, or SVD; or Glue Stock from an Unknown Animal Class

If:	And the country or region of export is:	And the importation is:	Then:
<ul style="list-style-type: none"> ◆ Swine glue stock ◆ Glue stock from and unknown animal class 	Affected with ASF, CSF, FMD, or SVD	Consigned to an approved establishment	AUTHORIZE shipment under seal with VS Form 16-78 (see Appendix K for completing form)
		Not consigned to an approved establishment	1. DO NOT RELEASE the HOLD 2. PROVIDE the importer with the appropriate options (see Table 2-2-11)

Pellets from Birds of Prey

Pellets may enter **only** if accompanied by a VS permit or if consigned to an approved establishment. If the pellets are accompanied by a VS permit, then see [Table 3-2-14](#) to validate the permit, or to determine the appropriate regulatory action to take if consigned to an approved establishment.

TABLE 3-2-14 Pellets from Birds of Prey

If the importation is:	And:	And:	Then:
Pellets from birds of prey	Shipping documents match the VS permit	—————→	RELEASE or CONTROL as specified on the permit
	Shipping documents do not match the VS permit	VS permit has expired	<ol style="list-style-type: none"> DO NOT RELEASE the HOLD HAVE the consignee contact VS, TTSPS (see Table 2-4-16) SAFEGUARD the importation until you hear from VS, TTSPS
		Discrepancy is other than an expired VS permit	<ol style="list-style-type: none"> DO NOT RELEASE the HOLD CONTACT PPQ-AQI-VMO or PPQ-VRS-Headquarters Personnel for further action (see Appendix H)
	Is consigned to an approved establishment	—————→	AUTHORIZE shipment under seal with VS Form 16-78 (see Appendix K to complete the form)
	Not consigned to an approved establishment	—————→	<ol style="list-style-type: none"> DO NOT RELEASE the HOLD PROVIDE the importer with the appropriate options (see Table 2-2-11 on page 2-2-18)

Rendered Products and Processed Proteins



Rendered products and processed protein products from countries affected with BSE are **prohibited** entry unless they are accompanied by a VS-issued permit.

Rendering is a process by which animal tissue is treated by heat or chemical processes to separate fat from protein and mineral components. Usually the products are finely ground before rendering. Rendered products may be imported for animal feed or as fertilizer. Animal by-products that could be rendered are listed below:

- ◆ Blood meal
- ◆ Bone meal (ground bones, de gelatinized bone meal)
- ◆ Fish emulsion
- ◆ Fish hydrolysate
- ◆ Feather meal
- ◆ Fish meal
- ◆ Greaves cakes
- ◆ Hoof and horn meal
- ◆ Meat meal
- ◆ Poultry meal
- ◆ Shellfish meal
- ◆ Tankage



Except from countries affected with BSE, **do not** consider spray dried blood or freeze dried blood as rendered products; regulate these products under **Blood**. Neither product is subjected to a process that inactivates exotic animal disease agents.

If a product is identified as a nutritional supplement, feed or food additive, or premixture or fertilizer, then review the accompanying documents thoroughly to determine if a rendered or processed protein product is present. If a rendered or processed protein product is present, then see [Table 3-2-15](#).

Rendered or Processed Protein Products from All Species of Animals from a Country Affected With BSE or Designated at Minimal Risk for BSE

To regulate rendered processed protein products from all species of animals from a country either affected with or designated as minimal risk for BSE (currently Canada is the only country considered to be at minimal risk for BSE), see [Table 3-2-15](#).



Important

Rendered or processed protein products from ruminants from countries affected with BSE are **prohibited** from all species of animals, regardless of the purpose for which they are imported. Rendered or processed fish and shellfish products from a country affected with BSE require a VS permit for entry.

TABLE 3-2-15 Rendered or Processed Protein Products from a Country Affected With BSE, Designated at Minimal Risk for BSE, or Free from BSE

If the importation is:	And is derived from:	And the country or region of export is:	And the product is:	And the importation:	Then:	
Rendered ¹ or processed protein products	Ruminant	Free from BSE	→	→	Go to Table 3-2-16	
		Affected with BSE			REFUSE ENTRY	
		Minimal risk for BSE ²	Edible tallow	Is appropriately certified ³		REFER to FSIS
				Lacks certification ³		REFUSE ENTRY
			Inedible tallow	Is appropriately certified ⁴		RELEASE
				Lacks certification ⁴		REFUSE ENTRY
	Other than the above		→	REFUSE ENTRY		
	Other than ruminant	Free from BSE			→	Go to Table 3-2-16
		Affected with BSE	→	Is accompanied by a VS permit		RELEASE
				Lacks a VS permit		REFUSE ENTRY
Minimal risk for BSE ²		→	Is accompanied by a VS permit		RELEASE	
			Lacks a VS permit		REFUSE ENTRY	

1 A partial list of rendered products: animal fat blends, animal digest, blood meal, bone meal, crab meal, fish by-products, fish meal, fish protein, fish solubles, hydrolyzed hair, hydrolyzed animal fat, inedible tallow, lard, meat meal, oil, poultry meal, poultry waste, poultry litter, dried poultry feathers, and shrimp meal. Both edible and inedible tallow are allowed from a country at minimal risk for BSE. Does **not** include tallow derivatives which are not considered prohibited materials, even if from BSE-affected countries (for tallow derivatives see [Table 3-15-2](#))

- 2 Currently Canada is the **only** country designated at minimal risk for BSE.
- 3 Is accompanied by CFIA Annex A-3, Veterinary Certificate for Edible Tallow Destined to the USA (see [Figure G-1-24](#)).
- 4 Is accompanied by a CFIA Veterinary Certificate for Inedible Tallow Destined to the USA (see [Figure G-1-33](#)).

Rendered or Processed Protein Products from All Species of Animals from a Country Free from BSE

TABLE 3-2-16 Rendered or Processed Protein Products from All Species of Animals from a Country Free from BSE

If the importation is:	And the country or region of export is:	And is for use in:	And the importation is:	And:	Then:	
Rendered or processed protein products	Free from BSE	Animal feed or fertilizer	<ul style="list-style-type: none"> ◆ Fish emulsion ◆ Fish hydrolysate ◆ Fish meal ◆ Fish oil ◆ Shellfish¹ meal ◆ Shellfish¹ oil 	→	GO to Table 3-2-17	
			Greaves cakes	Is accompanied by the appropriate certification ²	RELEASE	
				Lacks certification ²	REFUSE ENTRY	
			Rendered product from poultry		→	GO to Table 3-2-18
			Rendered product from horse, ruminant, or swine		→	GO to Table 3-2-19
			Other animal waste products that have not been fully processed or are not considered to be rendered		→	GO to Table 3-2-20
			Manufacturing (such as glue)		→	1. REGULATE as glue stock 2. GO to Table 3-2-8

- 1 For example, clam, crab, lobster, mussel, oyster, scallop, shrimp, squid, and snail.
- 2 An original certificate signed by a full-time veterinarian of the agency responsible for animal health in the exporting region, declaring the following:
 - ◆ The animal species from which the material was derived
 - ◆ The region where any facility in which the material was processed is located
 - ◆ The material was derived **only** from animals that have **never** been in any region listed in 9CFR 94.18(a)
 - ◆ The material **did not** originate in and was **never** stored, rendered, or otherwise processed in or otherwise associated with a facility in a region listed in 9CFR 94.18(a)
 - ◆ The material was **not** otherwise associated with any of the materials listed in 9CFR 95.29(a) which have been in a region listed in 9CFR 94.18(a)

Fish Emulsion, Hydrolysate, Meal, and Oil and Shellfish Meal and Oil from a Country Free from BSE

TABLE 3-2-17 Fish Emulsion, Hydrolysate, Meal, and Oil, and Shellfish Meal and Oil from a Country Free from BSE

If:	And the country or region of export is:	And is from:	And the importation:	Then:
<ul style="list-style-type: none"> ◆ Fish emulsion ◆ Fish hydrolysate ◆ Fish meal ◆ Fish oil ◆ Shellfish meal ◆ Shellfish oil 	Free from BSE	New Zealand	Is accompanied by the appropriate certification ¹	RELEASE
			Lacks certification ¹	REFUSE ENTRY
		Other than New Zealand	Is accompanied by the appropriate certification ²	RELEASE
			Lacks certification ²	REFUSE ENTRY

1 An export certificate stating that the product is of New Zealand origin.

2 An original certificate signed by a full-time veterinarian of the agency responsible for animal health in the exporting region, declaring the following:

- ◆ The animal species from which the material was derived
- ◆ The region where any facility in which the material was processed is located
- ◆ The material was derived **only** from animals that have **never** been in any region listed in 9CFR 94.18(a)
- ◆ The material **did not** originate in and was **never** stored, rendered, or otherwise processed in or otherwise associated with a facility in a region listed in 9CFR 94.18(a)
- ◆ The material was **not** otherwise associated with any of the materials listed in 9CFR 95.29(a) which have been in a region listed in 9CFR 94.18(a)

Rendered or Processed Protein Products from Poultry, for Animal Feed or Fertilizer from a Country Free from BSE

Inspect the importation to determine if the products have been fully processed by dry rendering or live steaming. The products should resemble a coarse meal which has been uniformly ground. They should have a burned, scorched odor; be free of a decaying and rotten odor; and be free from pieces of bone, hide, flesh or sinew.

TABLE 3-2-18 Rendered or Processed Protein Products from Poultry, for Animal Feed or Fertilizer from a Country Free from BSE

If:	And from:	And for use in:	And the country or region of export is:	And:	Then:
Rendered or processed protein products, including poultry meal	Poultry	Animal feed or fertilizer	Free from BSE, but affected with HPAI (H5N1)	Is accompanied by a VS permit	RELEASE
				Lacks a VS permit	REFUSE ENTRY
			Free from both BSE and HPAI (H5N1)	Is accompanied by the appropriate certification ¹	RELEASE
				Lacks the certification	REFUSE ENTRY

- 1 An original certificate signed by a full-time veterinarian of the agency responsible for animal health in the exporting region, declaring the following:
- ◆ The animal species from which the material was derived
 - ◆ The region where any facility in which the material was processed is located
 - ◆ The material was derived **only** from animals that have **never** been in any region listed in 9CFR 94.18(a)
 - ◆ The material **did not** originate in and was **never** stored, rendered, or otherwise processed in or otherwise associated with a facility in a region listed in 9CFR 94.18(a)
 - ◆ The material was **not** otherwise associated with any of the materials listed in 9CFR 95.29(a) which have been in a region listed in 9CFR 94.18(a)

Rendered or Processed Protein Products from Equine, Ruminant, or Swine, for Animal Feed or Fertilizer from a Country Free from BSE

Inspect the importation to determine if the products have been fully processed by dry rendering or live steaming. The products should resemble a coarse meal which has been uniformly ground. They should have a burned, scorched odor; be free of a decaying and rotten odor; and be free from pieces of bone, hide, flesh or sinew.

TABLE 3-2-19 Rendered or Processed Protein Products from Equine, Ruminant, or Swine, for Animal Feed or Fertilizer from a Country Free from BSE

If:	And from:	And is for use in:	And the country or region of export is:	And the importation:	Then:
Rendered or processed protein products	<ul style="list-style-type: none"> ◆ Equine (horse) ◆ Ruminant ◆ Swine 	Animal feed or fertilizer	Free from BSE	Is accompanied by the appropriate certification ¹	RELEASE
				Lacks the certification	REFUSE ENTRY

1 An original certificate signed by a full-time veterinarian of the agency responsible for animal health in the exporting region, declaring the following:

- ◆ The animal species from which the material was derived
- ◆ The region where any facility in which the material was processed is located
- ◆ The material was derived **only** from animals that have **never** been in any region listed in 9CFR 94.18(a)
- ◆ The material **did not** originate in and was **never** stored, rendered, or otherwise processed in or otherwise associated with a facility in a region listed in 9CFR 94.18(a)
- ◆ The material was **not** otherwise associated with any of the materials listed in 9CFR 95.29(a) which have been in a region listed in 9CFR 94.18(a)

Other Animal Waste Products that Are Not Fully Processed and Are Not Considered to Be Rendered, from a Country Free from BSE

TABLE 3-2-20 Other Animal Waste Products Which Have Not Been Fully Processed and Are Not Considered to Be Rendered from a Country Free from BSE

If:	And the country or region of export is:	And the importation is:	Then:
Other waste products which have not been fully processed and are not considered to be rendered	Free from BSE	Consigned to an approved establishment	AUTHORIZE shipment under seal with VS 16-78 (see Appendix K for form directions)
		Not consigned to an approved establishment	1. DO NOT RELEASE the HOLD 2. PROVIDE the importer with the appropriate options (see Table 2-2-11 on page 2-2-18)