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Title/Titre

Hay and Straw - Import and Domestic Movement Requirements to Prevent the Introduction and Spread of Cereal Leaf Beetle (*Oulema melanopus*)

File/Notre Référence 3525-8

SUBJECT:

This directive specifies the plant protection requirements for the importation into Canada and movement within Canada for hay and straw to prevent the introduction and spread of cereal leaf beetle. This pest occurs in certain areas of Canada and the United States (US) (described in Appendix 1). It also occurs in many other countries.

With the establishment of the cereal leaf beetle in Alberta, this directive has been amended to:

- 1. Include the County of Lethbridge and the Municipal District of Taber as areas regulated by the CFIA for the cereal leaf beetle; and
- 2. Include these new regulated areas in the list of Sources of hay or straw containing 5% or more of host species of cereal leaf beetle, for which domestic movement requirements for control of leaf beetle are required, for movement to areas in Canada where the cereal leaf beetle is not known to occur. Options for issuance of a Movement Certificate include:
 - fumigation with phosphine gas;
 - storage of baled hay and straw in a manner to keep it dry for a period of at least
 90 days between baling and shipping of the hay or straw; or
 - compressing the hay or straw at a pressure equal or greater than 105 kg/cm².

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Review

This directive will be reviewed every five years unless otherwise needed. The contact for this directive is Joanne Rousson. The next review date is August 24, 2008. For further information or clarification, please contact the Grains and Field Crops Section.

Endorsement

Approved by:		
	Director	
	Plant Health Division	

Amendment Record

Amendments to this directive will be dated and distributed as outlined in the distribution below.

Distribution

- 1. Directive mail list (Areas/Regions, PHRA, USDA)
- 2. Provincial Government, Industry (via Areas/Regions)
- 3. National Industry Organizations (determined by National Manager, Grains and Field Crops Section)
- 4. Internet

Introduction

Scope:

This directive is intended for use by CFIA inspection staff and the Canada Border Services Agency (CBSA) in order to prevent the entry and spread of the cereal leaf beetle into areas of Canada not currently infested with the pest. It is also intended for use by importers, shippers and customs brokers as a guide to the import requirements of consignments including hay and/or straw.

References:

- D-99-01: Barley, Oat, Rye, Triticale and Wheat Phytosanitary Requirements on Import, Transshipped, In-Transit and Domestic Movement. 1st Revision. 48 pp. November 01, 2000.
- D-96-08: *Sorghum* spp., Import and Domestic Movement Requirements. 2nd Revision. 15 pp. March 25, 1999.
- This document supersedes D-86-08, Quarantine Directive No. Domestic-2, dated 1986-02-28, and Quarantine Circular No. 12C dated 1973-09-21

Definitions, Abbreviations and Acronyms

CBSA Canada Border Services Agency
CFIA Canadian Food Inspection Agency

CLB Cereal Leaf Beetle

PMRA Pest Management Regulatory Agency

1.0 General Requirements

1.1 Legislative Authority

Plant Protection Act, S.C. 1990, C.22 Plant Protection Regulations, SOR/95-212 Canadian Food Inspection Agency Fees Notice, Canada Gazette, Part 1 (05/13/2000)

1.2 Fees

The CFIA is charging fees in accordance with the *Canadian Food Inspection Agency Fees Notice*. For information regarding fees associated with imported product, please contact the Import Service Centres (ISC) at the following phone numbers: Eastern ISC 1-877-493-0468; Central ISC 1-800-835-4486; Western ISC 1-888-732-6222. Anyone requiring other information regarding fees may contact any local CFIA office or CFIA's website at http://www.inspection.gc.ca.

2.0 Specific Requirements

2.1 Regulated Pests

Oulema melanopus L. (cereal leaf beetle).

2.2 Regulated Commodities

The requirements herein apply for all baled hay or straw composed of five percent or greater of regulated host species of the cereal leaf beetle. The regulated host species are:

Cereals, including: wheat, including durum wheat (*Triticum* spp.), triticale (*X-Triticosecale* spp.), barley (*Hordeum* spp.), oats (*Avena* spp.), and rye (*Secale* spp.) - refer to D-99-01 for additional import and domestic movement requirements. These commodities are also regulated for Karnal bunt, dwarf bunt and flag smut of wheat.

Sorghum and Sudan grass (*Sorghum* spp.) - refer to D-96-08 for additional import requirements for import of broomcorn (*Sorghum vulgare* var. *technicum*), to prevent the introduction and spread of European corn borer and durra stem borer.

Millet (Panicum spp.)

Rice (*Oryza* spp.)

Forage grasses, including: blue grass (*Poa* spp.), brome grasses (*Bromus* spp.), canary grass (*Phalaris* spp.), fescues (*Festuca* spp.), orchard grass (*Dactylis* spp.), redtop (*Agrostis* spp.), ryegrass (*Lolium* spp.), timothy (*Phleum* spp.), wheatgrasses (*Agropyron* spp.), wild rye (*Elymus* spp.)

Hay or straw of legume-grass mixes, consisting of five percent or greater of regulated host species of the cereal leaf beetle.

2.3 Commodities Exempt from the Requirements of this Directive

Pelletized or cubed hay or straw products;

Silage, including commodities such as balage or haylage, which has undergone a fermentation process;

Hay or straw ornaments, artifacts and toys that have been bleached, dyed, painted or shellacked;

Hay or straw composed of greater than 95 percent non-host species, including: alfalfa (*Medicago* spp.), clover (*Trifolium* spp.), sweetclover (*Melilotus* spp.), birdsfoot trefoil (*Lotus corniculatus*), and flax (*Linum usitatissimum*); and

Small quantities of hay or straw carried in vehicles only for in-transit use by animals. If disposed in Canada, this hay or straw must be deposited in an area where it will be disposed by burial or burning (where approved) in a municipal landfill.

2.4 Regulated Areas

Described in Appendix 1.

2.5 Movement Requirements and Prohibitions

2.5.1 Regular Requirements

A Permit to Import is not required.

Baled hay or straw moving from an area listed in Column II of Appendix 3 to an area listed in Column III must meet the requirements listed in Column IV. Where the material imported, or moved domestically, is straw or hay of barley, oats, rye, wheat or triticale, refer to D-99-01 for additional import or domestic movement

requirements. Where the material imported, or moved domestically, is broomcorn, refer to D-96-08 for additional import or movement requirements. Appendix 2 provides acceptable additional declarations and treatments on Movement Certificates or Phytosanitary Certificates if required.

2.5.2 Alternative Requirements for Import of Unprocessed Cereal Straw for Composting in Canada

If an importer chooses this option for import of cereal straw of wheat, including durum wheat (*Triticum* spp.), triticale (*X-Triticosecale* spp.), barley (*Hordeum* spp.), oats (*Avena* spp.), or rye (*Secale* spp.), originating from a Karnal bunt free state in the Continental United States¹, only for composting in Canada, a **Phytosanitary Certificate is not** required. However, a **Permit to Import is required** for imports of cereal straw originating from U.S. States which are infested or suspected of being infested with cereal leaf beetle (*Oulema melanopus*), dwarf bunt (*Tilletia controversa*), or the wheat strain of flag smut (*Urocystis agropyri*), imported to an area in Canada which is free of these pests, for composting only. The Permit to Import shall normally be valid for a period of three years from the date of issuance.

Permit to Import

The conditions of the **Permit to Import**² are mandatory. An Importer, who must be a resident of Canada, shall apply for a Permit to Import to the Plant Health Division of the CFIA. When issued, the Importer is responsible for ensuring that the Permit to Import conditions are met.

The following conditions shall be applied to the Import Permit:

- Importation of straw is prohibited from states in the United States which are infested or suspected to be infested with Karnal bunt.
- Shipping documents must indicate place of production and origin of shipment.
- The material must be secured in a manner to prevent scattering during transport and while at the composting site in Canada, e.g., container, enclosed vehicle, secure tarpaulin, or other method of transport and handling to achieve the same objective.
- The material must be routed directly to the composting site in Canada and not diverted elsewhere for any other use/purpose.

¹ The U.S. States of Arizona, California, New Mexico and Texas are considered to be partially infested with Karnal bunt (*Tilletia indica*).

² "Permit to Import" refers to a Permit to Import issued by the CFIA pursuant to the *Plant Protection Regulations*.

- The material must be composted under sound composting practices and in such a manner that the combination of time and temperature generated is adequate to destroy regulated pests, e.g., 75°C for three days, 65°C for five days, or other efficacious combination of time and temperature. The Canadian Food Inspection Agency inspectors will monitor the process at a frequency determined by CFIA.
- The Canadian Food Inspection Agency inspectors will also monitor the straw while in storage at the composting facility and any residual material not composted for potential pest problems, and if required, order appropriate treatment/disposal measures, e.g., burning or deep burial.
- Unprocessed straw must not be distributed or used for any other purpose.
- Material infested/infected with quarantine pests of concern to Canada must be destroyed under the direction and supervision of CFIA at the full expense of the importer.

2.5.3 Alternative Requirements for Domestic Movement of Unprocessed Cereal Straw for Composting in Canada

If a composter (Canadian resident) chooses this option for domestic movement of cereal straw of wheat, including durum wheat (*Triticum* spp.), triticale (*X-Triticosecale* spp.), barley (*Hordeum* spp.), oats (*Avena* spp.), or rye (*Secale* spp.), originating from an area of Canada which is infested or suspected of being infested with cereal leaf beetle (*Oulema melanopus*) or dwarf bunt (*Tilletia controversa*), to an area in Canada which is free of these pests, for composting only, a Movement Certificate is required.

Movement Certificate

The conditions of the Movement Certificate are mandatory. A Canadian resident wishing to move cereal straw from an infested to a non-infested area of Canada can apply for a Movement Certificate to a local office of the CFIA. When issued, the Shipper and/or Owner of the cereal straw is responsible for ensuring that the conditions identified on the Movement Certificate are met.

The following conditions shall be applied to the Movement Certificate:

- Shipping documents must indicate origin of shipment.
- The material must be secured in a manner to prevent scattering during transport and while at the composting site in Canada, e.g., container, enclosed vehicle, secure tarpaulin, or other method of transport and handling to achieve the same objective.
- The material must be routed directly to the composting site in Canada and not diverted elsewhere for any other use/purpose.

- The material must be composted under sound composting practices and in such a manner that the combination of time and temperature generated is adequate to destroy regulated pests, e.g., 75°C for three days, 65°C for five days, or other efficacious combination of time and temperature. The CFIA inspectors will monitor the process at a frequency determined by CFIA.
- The CFIA inspectors will also monitor the straw while in storage at the composting facility and any residual material not composted for potential pest problems, and if required, order appropriate treatment/disposal measures, e.g., burning or deep burial.
- Unprocessed straw must not be distributed or used for any other purpose.
- Material infested/infected with quarantine pests of concern to Canada must be destroyed under the direction and supervision of CFIA at the full expense of the Owner.

2.5.4 Exemptions to the Regular Requirements for Special Purposes

Pursuant to Sections 43 and 54 of the *Plant Protection Regulations*, special exemptions to the regular requirements are possible for regulated material imported into or moved within Canada for the purpose of being used for scientific research, educational, processing, industrial or exhibition purposes;

To obtain special exemptions to the regular import requirements, importers can apply for a Permit to Import to the Plant Health Division, Ottawa, Ontario, and explain their need for material to be exempted from the regular requirements. To obtain special exemptions on domestic movement requirements, residents of Canada can apply to the nearest CFIA office.

3.0 Inspection Procedures

3.1 Document Verification:

When required, valid Phytosanitary Certificates and Movement Certificates must be verified prior to release of the material to the importer or consignee. Additional information on this requirement is provided in Column V of Appendix 3.

3.2 Product Examination:

All shipments of regulated commodities, imported or moving within Canada, are subject to inspection for regulated pests and/or soil contamination by an authorized CFIA inspector.

4.0 Non-Compliance

Shipments not meeting the movement requirements of Section 2.5 of this directive will be refused entry or movement, returned to origin, re-exported, treated or destroyed at the importer's or shipper's expense.

5.0 Other Requirements

The importation and/or domestic movement of hay and/or straw is also subject to the *Feeds Act* and *Regulations* and the *Health of Animals Act* and *Regulations*.

Importers wishing to know more about these acts and regulations may contact the offices of the CFIA. Information is also available on the CFIA's website (www.inspection.gc.ca).

6.0 Appendices

Appendix 1	Distribution of Cereal Leaf Beetle in Canada and the United States of
	America
Appendix 2	Acceptable Additional Declarations and Treatments
Appendix 3	Hay or Straw Import and Domestic Movement Requirements

Appendix 1

Distribution of Cereal Leaf Beetle in Canada and the United States of America

Canada ³ :	Present
Alberta - The County of Lethbridge and the Municipal District of Taber; British Columbia - The Regional Districts of East Kootenay and Central Kootenay; Ontario - South of Highway 101 from the western boundary of Wawa to the Ontario/Quebec border; Quebec; New Brunswick; Newfoundland and Labrador ⁴ ; Nova Scotia; Prince Edward Island.	Yes
Alberta - Other than the County of Lethbridge and the Municipal District of Taber; British Columbia - Other than the Regional Districts of East Kootenay and Central Kootenay; Manitoba; Ontario - West of Wawa or north of Highway 101; Saskatchewan; Northwest Territories; Nunavut; Yukon Territory;.	No
United States ⁵ :	
AL, AR, CT, DC, DE, GA, IA, ID, IL, IN, KS, KY, MA, MD, ME, MI, MN, MO, MT, NC, ND, NH, NJ, NV, NY, OH, OR, PA, SC, TN, UT, VA, VT, WA, WV, WI, WY	Yes
AK, AZ, CA, CO, FL, LA, MS, NE, NM, OK, RI, SD, TX	No

³Information on the status of the cereal leaf beetle (*Oulema melanopus*) in Canada may be found at the Canadian Food Inspection Agency website at: http://www.inspection.gc.ca/english/plaveg/pestrava/oulmel/oulmele.shtml

⁴Newfoundland and Labrador has requested that the status of the Province as a cereal leaf beetle non-infested area be waived.

⁵Information on the status of the cereal leaf beetle (*Oulema melanopus*) in the United States may be found at the NAPIS (National Agricultural Pest Information System) website at: http://ceris.purdue.edu/napis/pests/index.html

Appendix 2

Acceptable Additional Declarations and Treatments

Where the hay or straw must be accompanied by a Phytosanitary Certificate (for imported material) or a Movement Certificate (for domestic movement of material) acceptable declarations and treatments are outlined in the following tables.

Table 1 Acceptable Treatment¹ on Phytosanitary Certificates and Movement Certificates for Cereal Leaf
Beetle for hay or straw imported or moving domestically under the regular conditions described in
2.5.1 [¹Details of treatment must appear in the appropriate section on the Phytosanitary Certificate or
Movement Certificate. The treatment may have to be performed under the supervision of the CFIA. For
information on pest control products registered in Canada, please contact the Canadian Pest Management
Regulatory Agency (PMRA) at 1-800-267-6315.]

Commodity	Treatment		
Hay or Straw	Phosphine gas (Aluminum phosphide or magnesium phosphide), used in accordance with the manufacturer's recommendations.		

NOTE: The hay or straw must be safeguarded after treatment, to prevent (re-)infestation with *Oulema melanopus*.

Table 2. Acceptable Declarations on CFIA Movement Certificates for Cereal Leaf Beetle for hay or straw moving domestically under the regular conditions described in 2.5.1

Commodity	Declaration		
Hay or Straw	"The material originated in an area free from Oulema melanopus on the basis of official surveys."		
Hay or Straw	"The material originated in an area free from Oulema melanopus."		
Hay or Straw	"The material was baled at least 90 days prior to shipping and was stored in a manner to keep it dry since baling."		
Hay or Straw	"The material was compressed at a pressure equal or greater than 105 kg/cm²."		

NOTE: The hay or straw must be safeguarded after treatment, to prevent (re-)infestation with *Oulema melanopus*.

Table 3 Acceptable Declarations on Phytosanitary Certificates to Attest Freedom from Cereal Leaf Beetle for hay or straw imported under the regular conditions described in 2.5.1

Commodity	Additional Declaration		
Hay or Straw	"The material originated in an area free from Oulema melanopus on the basis of official surveys."		
Hay or Straw	"The material originated in an area free from Oulema melanopus."		
Hay or Straw	"The material was baled at least 90 days prior to shipping and was stored in a manner to keep it dry since baling."		
Hay or Straw	"The material was compressed at a pressure equal or greater than 105 kg/cm²."		

NOTE: The hay or straw must be safeguarded after treatment, to prevent (re-)infestation with *Oulema melanopus*.

Appendix 3

Hay and Straw Import and Domestic Movement Requirements

Table 1. Hay and Straw -- Import and Domestic Movement Requirements. [the requirements herein apply for all baled hay or straw, pure or in mixtures. See Appendix 2 for acceptable declarations and treatments.]

Column I	Column II	Column III	Column IV	Column V
Row No.	Source (Country, State or County)	Canadian Destination (Province or County)	Movement Requirements or Prohibitions	Instructions to the CCRA, the CFIA, Importers and Shippers
1	Canada: - British Columbia, Regional Districts of East Kootenay and Central Kootenay - Alberta, County of Lethbridge and Municipal District of Taber - Ontario, South of Highway 101 from the western boundary of Wawa to the Ontario/Quebec border - Quebec - New Brunswick - Newfoundland and Labrador - Nova Scotia - Prince Edward Island	Canada: - British Columbia, Regional Districts of East Kootenay and Central Kootenay - Alberta, County of Lethbridge and Municipal District of Taber - Ontario, South of Highway 101 from the western boundary of Wawa to the Ontario/Quebec border - Quebec - New Brunswick - Newfoundland and Labrador - Nova Scotia - Prince Edward Island	None	None For cereal straw or hay refer to D-99-01 for additional movement requirements; For broomcorn refer to D-96-08 for additional movement requirements.
2	Canada - British Columbia, Other than Regional Districts of East Kootenay and Central Kootenay - Alberta - Other than County of Lethbridge and Municipal District of Taber - Saskatchewan - Manitoba - Ontario, West of Wawa or north of Highway 101 - Northwest Territories - Nunavut - Yukon Territory	All Destinations	None	None For cereal straw or hay refer to D-99-01 for additional movement requirements; For broomcorn refer to D-96-08 for additional movement requirements.
3	Canada: - British Columbia, Regional Districts of East Kootenay and Central Kootenay - Alberta, County of Lethbridge and Municipal District of Taber - Ontario, South of Highway 101 from the western boundary of Wawa to the Ontario/Quebec border - Quebec - New Brunswick - Newfoundland and Labrador - Nova Scotia - Prince Edward Island	Canada - British Columbia, Other than the Regional Districts of East Kootenay and Central Kootenay - Alberta - Other than County of Lethbridge and Municipal District of Taber - Saskatchewan - Manitoba - Ontario, West of Wawa or north of Highway 101 - Northwest Territories - Nunavut - Yukon Territory	- Movement Certificate with declaration or treatment for cereal leaf beetle OR -Movement Certificate with conditions identified in 2.5.3 for domestic movement of unprocessed cereal straw for composting in Canada	CFIA: The Movement Certificate (with declaration or treatment) must accompany the shipment. Sample as specified in internal work plans OR -Movement Certificate with conditions identified in 2.5.3 for domestic movement of unprocessed cereal straw for composting in Canada For cereal straw or hay refer to D-99-01 for additional movement requirements; For broomcorn refer to D-96-08 for additional movement requirements.

Table 1. Hay and Straw -- Import and Domestic Movement Requirements. [the requirements herein apply for all baled hay or straw, pure or in mixtures. See Appendix 2 for acceptable declarations and treatments.]

Column I	Column II	Column III	Column IV	Column V
Row No.	Source (Country, State or County)	Canadian Destination (Province or County)	Movement Requirements or Prohibitions	Instructions to the CCRA, the CFIA, Importers and Shippers
4	USA: AL, AR, CT, DC, DE, GA, IA, ID, II., IN, KS, KY, MA, MD, ME, MI, MN, MO, MT, NC, ND, NH, NJ, NV, NY, OH, OR, PA, SC, TN, UT, VA, VT, WA, WV, WI, WY	Canada: - British Columbia, Regional Districts of East Kootenay and Central Kootenay - Alberta, County of Lethbridge and Municipal District of Taber - Ontario, South of Highway 101 from the western boundary of Wawa to the Ontario/Quebec border - Quebec - New Brunswick - Newfoundland and Labrador - Nova Scotia - Prince Edward Island	None	None Shipping documents must identify the destination of the shipment. For cereal straw or hay refer to D-99-01 for additional movement requirements; For broomcorn refer to D-96-08 for additional movement requirements.
5	USA: AL, AR, CT, DC, DE, GA, IA, ID, IL, IN, KS, KY, MA, MD, ME, MI, MN, MO, MT, NC, ND, NH, NJ, NV, NY, OH, OR, PA, SC, TN, UT, VA, VT, WA, WV, WI, WY	Canada - British Columbia - All Destinations other than the Regional Districts of East Kootenay and Central Kootenay - Alberta - All Destinations other than County of Lethbridge and Municipal District of Taber - Saskatchewan - Manitoba - Ontario, West of Wawa or north of Highway 101 - Northwest Territories - Nunavut - Yukon Territory	Phytosanitary Certificate with additional declaration and/or treatment for Cereal Leaf Beetle OR -Import Permit with conditions identified in 2.5.2 for import of unprocessed cereal straw for composting in Canada	Customs: refer to the CFIA CFIA: The Phytosanitary Certificate (with declaration or treatment) must accompany the shipment. Sample as specified in internal work plans OR -Import Permit with conditions identified in 2.5.2 for import of unprocessed cereal straw for composting in Canada For cereal straw or hay refer to D-99-01 for additional movement requirements; For broomcorn refer to D-96-08 for additional movement requirements.
6	USA: AZ, CA, NM, TX	All Destinations	Cereal straw and hay is Prohibited from Counties generally or partially infested with Karnal bunt. Import Permit and a Phytosanitary Certificate with Additional Declarations or treatment for regulated pathogens are required for import of cereal straw from Karnal bunt free counties. Refer to D-99-01. Hay and Straw, other than Cereal Hay and Straw - None	Customs: If cereal straw or hay (wheat, durum, triticale, barley, rye or oats) refer to CFIA. All other hay or straw - None Cereal straw and hay is Prohibited from Counties generally or partially infested with Karnal bunt. Import Permit and a Phytosanitary Certificate with Additional Declarations or treatment for regulated pathogens are required for import of cereal straw from Karnal bunt free counties. Refer to D-99-01. Hay and Straw, other than Cereal Hay and Straw - None For broomcorn refer to D-96-08 for additional movement requirements.
7	USA: Other Continental States	All Destinations	None	None For cereal straw or hay refer to D-99-01 for additional movement requirements; For broomcorn refer to D-96-08 for additional movement requirements.
8	OTHER	All Destinations	Prior Approval From the Plant Health Division is Required. Refer to Animal Health and Production Division for Additional Requirements.	Prior Approval From the Plant Health Division is Required. Refer to Animal Health and Production Division for Additional Requirements.