Official Grain Grading Guide

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Classes and varieties

Canola and rapeseed are classes of the same botanical family.

This chapter describes dockage and grading procedures for canola and rapeseed. Canola has been used in the examples of grade names. If a sample of rapeseed is submitted for inspection, replace *Canola* with *Rapeseed*.

▲ **Important:** Ensure you use the correct grain code. Codes are different for canola and rapeseed.

Canola

The term canola applies to varieties that meet the canola standards for low levels of erucic acid and glucosinolates. Production of canola varieties is widespread.

Rapeseed

Rapeseed varieties are produced in small volumes, usually under contract. Shipments and submitted samples of rapeseed must be clearly identified as rapeseed.

▲ Important: Canola and rapeseed may be visually indistinguishable. However, their end uses are quite different. If you are not sure if the sample is canola or rapeseed, send the sample to the Chief Grain Inspector.

Determination of dockage

Definitions

Dockage is assessed and recorded to the nearest 0.1%.

Dockage is defined under the Canada Grain Act as "any material intermixed with a parcel of grain, other than kernels of grain of a standard of quality fixed by or under this Act for a grade of that grain, that must and can be separated from the parcel of grain before that grade can be assigned to the grain." Dockage is removed by following the cleaning procedures described in this section of the manual.

The sample as it arrives is referred to as the uncleaned or dirty sample. Its weight is the **gross weight** of the sample. Dockage is assessed on the gross weight of the sample.

Dockage is assessed in two stages.

- 1. Follow *Normal cleaning procedures*, using the Carter dockage tester.
- 2. Follow procedures for *Cleaning for grade improvement*. This cleaning can be done at any time after normal cleaning has been completed.

Dockage not reported

- ▲ **Important:** Dockage is not reported for samples grading
 - Canola, Sample Canada Account Fireburnt
 - Canola, Sample Salvage
 - Canola, Sample Condemned

Normal cleaning procedures

- ▲ Important: Wear gloves and a mask to handle any sample which you suspect may contain hazardous substances.
- 1. Set up the Carter dockage tester as follows:

Feed control	# 3
Air control	# 5
Riddle	No. 000
Top sieve	Blank tray
Centre sieve	None
Bottom sieve	None
Sieve cleaner	Off

2. You also need the following hand sieves:

Round-hole sieves	Slotted sieves
No. 5	No028
No. 5.5	No032
No. 6	No035
No. 6.5	No038
No. 7	No040
No. 7.5	

- 3. Using a Boerner-type divider, divide the uncleaned sample to obtain a representative portion.
 - Official samples should be at least 900 g.
 - Unofficial samples should be at least 750 g.
- 4. For hand sieving use approximately 250 g.

▲ Important:

- Ensure you start with the right sized sieves.
- When you use a hand sieve, move the sieve from left to right 30 times, using a sifting motion. One time is one complete motion from the centre to one side, to the other side, and back to the centre. The total distance from left to right is 20 cm, or about eight inches.
- 1. Use whichever round-hole sieve will achieve maximum removal of large material with minimum loss of canola. Nest the round-hole sieve over the slotted sieve.
- 2. Use whichever slotted sieve will reduce the admixture of conspicuous inseparable material to within the grade tolerance with a minimum loss of reasonably sound canola.
- 5. Combine the separated, cleaned 250-g portions.
- 6. Turn on the Carter dockage tester.
- 7. Run the entire working sample through the Carter dockage tester for aspiration only.
- 8. Using a Boerner-type divider, divide the sample to a portion of not less than 10 g.
- 9. Analyse the 10-g portion to determine the percentage by weight of inseparable foreign material.
- 10. Determine the dockage, using the list under *Composition of dockage*.

Composition of dockage

Dockage includes

- Material that remains on top of the round-hole sieve
- Material that passes through the slotted sieve
- Material removed by aspiration
- Material that passes over the No. 000 riddle
- Inseparable material, up to established grade tolerances, handpicked from the cleaned sample
 - —In *Canola, Rejected (grade) Account Stones*, dockage includes inseparable material handpicked from the cleaned sample up to the tolerance for the grade of the sample.
 - —In *Sample* grades, inseparable material is not included as dockage. When the weight of the inseparable admixture exceeds 2.0% of the net weight, the admixture becomes a second reason for the sample grade. This is recorded in Remarks.
- Soft earth pellets handpicked from the cleaned sample
- Material removed by *Cleaning for grade improvement*

Primary samples, commercially clean

Commercially clean primary samples can have up to 0.5% for broken and reasonably sound canola or rapeseed deducted from the gross weight of the dockage. For a definition of commercially clean, see *Export shipments*.

Primary samples, not commercially clean

In not commercially clean primary samples, there is no allowance for broken and reasonably sound canola or rapeseed. All the material removed by the slotted sieve is assessed as dockage.

Cleaning for grade improvement

If the grade of a delivery can be improved by additional cleaning, perform the cleaning and add the additional material to dockage. Cleaning for grade improvement can be done at any time after normal cleaning.

- 1. After normal cleaning, examine the material to be removed and select your equipment according to the material you want to remove. See the table *Cleaning for grade improvement—Canola* for the list of equipment.
- 2. Sieve the sample by hand or pass it through the Carter dockage tester, depending on the material.
 - ▲ Important: When you use a hand sieve, move the sieve from left to right 30 times, using a sifting motion. One time is one complete motion from the centre, to one side, to the other side, and back to the centre. The total distance from left to right is 20 cm, or about eight inches.
- 3. Weigh the additional dockage and add it to the original dockage.

Cleaning for grade improvement—Canola

Material to be removed	Equipment	Effect on composition of dockage
Weed seeds	Carter dockage tester with air setting at #7, or approved sieves	Weed seeds are added to dockage. Not more than 5.0% of sound canola may be removed for each single grade improvement achieved.
Damaged seeds	Carter dockage tester with air setting at #7, or approved sieves	Weed seeds are added to dockage. Not more than 5.0% of sound canola may be removed for each single grade improvement achieved.

Cleaning sample grade canola

For canola that qualifies only for *Sample Canada, Account Admixture* after cleaning for grade improvement, dockage is assessed using the No. .035 slotted sieve, the round-hole sieve appropriate for the admixture, and the Carter dockage tester with air control set at #5.

For canola that qualifies only for *Sample Canada, Account Damaged* after cleaning for grade improvement, dockage is assessed using the appropriate round-hole and slotted sieves and the Carter dockage tester with air control set at #5. Use the slotted sieve appropriate for removing material consisting mainly of weed seeds and small broken grain. Also consider the maximum tolerance for inseparable admixture for these samples.

▲ **Important:** Variations from the above settings require authority from the Chief Grain Inspector.

Optional analysis

Where a shipper requests special cleaning of a carlot of grain at a terminal or transfer elevator, and the elevator manager agrees, dockage material will be analyzed for the presence of grain. The percentage and grade of any grain contained in the dockage will be reported and elevator stocks will be adjusted on the basis of the analysis. Agreement of the shipper and unload elevator must be conveyed to the CGC in writing prior to the analysis being performed.

Procedures

- 1. Analyze the official sample.
- 2. Record the following on inspection records:
 - The percentage by gross weight to the nearest 0.1% and the grade of canola.
 - The percentage by gross weight to the nearest 0.1% and the grade of grain separable from dockage.
 - The percentage of dockage.

Example 95.0% Canola, No. 1 CAN 4.0% Barley, No. 1 CW 1.0% dockage

Grading

Important definitions

Net weight of sample

The sample after cleaning and removal of dockage is referred to as the cleaned sample. Its weight is the net weight of the sample. Percentages by weight for grading refer to percentages of the cleaned sample, or the net weight.

Hazardous substances in samples

Wear gloves and a mask to handle any samples that you suspect may contain hazardous substances. Hazardous substances are defined in the Regulations as "any pesticide, herbicide or desiccant."

Crush

A crush is one pass of the roller under firm pressure over a 100-seed stick on masking tape.

Representative portion for grading

All grading is done on representative portions divided down from the cleaned sample, using a Boerner-type divider.

When the concentration of the grading factor is	Then use
Low	Optimum portion size
	Minimum portion size or more (do not use less)

Values in this table represent a range of recommended portions of samples for grading.

Representative portion of canola or rapeseed for grading, grams

Grading factor	Minimum	Optimum	Export
Conspicuous admixture	10	25	25
Damage	5	10	10
Distinctly green	5 crushes	10 crushes	10 crushes
Ergot	100	500	500
Excreta	working sample	working sample	working sample
Fireburnt	500	working sample	working sample
Heated	5 crushes	10 crushes	10 crushes
Inconspicuous admixture	1	5	5
Insect excreta	100	500	500
Odour	working sample	working sample	working sample
Rime	5	25	25
Sclerotinia sclerotiorum	100	500	500
Soft earth pellets	working sample	working sample	working sample
Staghead	10	25	25
Stones	100	working sample	working sample

Grading factors

Broken (BKN)

Any broken canola that remains in the sample after cleaning and is otherwise sound is considered to be sound.

Colour (CLR)

In assessing colour, consider

- The amount and degree of discolouration of the whole seed, such as from weathering
- The amount of rime (seeds densely and completely covered by rime are assessed as *Damage*)
- The proportion of crushed seeds which are only pale green or slightly immature and therefore not assessed as distinctly green

Note: Whole seeds that are green may be as a result of thin seed coats of certain canola varieties. Whole green seeds of these varieties are not indicators of elevated chlorophyll levels and therefore are not considered distinctly green or assessed as part of colour evaluation. Only seeds which are distinctly green throughout when crushed are assessed as distinctly green.

▲ **Important**: Where colour is the grade determinant, use the description under *Degree* of soundness in the *Primary grade determinants* table to assign the grade.

Conspicuous admixture (CADMX)

Conspicuous admixture refers to seeds that remain in the sample after cleaning and are easily distinguished from canola without the use of magnification, including

- Domestic seeds such as flaxseed, yellow mustard, whole shrunken or broken kernels of other grains
- Weed seeds such as cow cockle, lamb's-quarters, cleavers, smartweed, ball mustard and pigweed.

Representative portion for analysis

Minimum—10 g Optimum—25 g Export—25 g

Contaminated grain

▲ **Important:** Wear gloves and a mask to handle any sample that is suspected of containing contaminated grain.

Contaminated is defined in the "Canada Grain Act" as; "Contaminated means, in respect of grain, containing any substance in sufficient quantity that the grain is unfit for consumption by persons or animals or is adulterated within the meaning of the regulations made pursuant to sections B.01.046(1), B.15.001 and B.15.002(1) of the Food and Drugs Act."

Samples deemed to be contaminated by the Grain Research Laboratory in consultation with the Chief Grain Inspector for Canada are graded *Canola, Sample Condemned*.

Damage (DMG)

Damage in canola includes seeds that are

- Distinctly shrunken or shriveled
- Badly discoloured from mould
- Completely and densely covered with rime
- Excessively weathered, sprouted, tan coloured, distinctly green, heated, insect damaged or otherwise damaged

Total damage is the total of damaged crushed seeds and any visually damaged uncrushed seeds.

Representative portion for analysis of uncrushed visually damaged seed.

Minimum—5 g

Optimum—10 g

Export—10 g

Procedures

- 1. Divide the sample to the appropriate representative portion.
- 2. Handpick the representative portion for visually damaged seeds.
- 3. Determine the percentage concentration by weight.

Note: See distinctly green and heated for procedures to be followed in assessing these types of damage.

Distinctly green (DGR)

Distinctly green tolerances are applied to crushed seeds which are a distinct green throughout. Pale green or immature seeds are taken into account in the evaluation of colour. See *Colour*.

Number of crushes (100-seed strips) for analysis

Minimum—5

Optimum—10

Export—10

Procedures

- 1. Prepare and crush the appropriate number of strips from the cleaned sample.
- 2. A crush is made with one pass of the roller under firm pressure.
- 3. Determine the percentage of distinctly green seeds.

Earth pellets (EP)

- Hard earth pellets are pellets that do not crumble under light pressure. See *Stones*.
- Soft earth pellets are pellets that crumble under light pressure. See Soft earth pellets.

Ergot (ERG)

Ergot is a plant disease producing elongated fungus bodies with a purplish-black exterior, a purplish-white to off white interior, and a relatively smooth surface texture.

Representative portion for analysis

Minimum—100 g

Optimum—500 g

Export—500 g

Excreta (EXCR)

▲ Important: Wear gloves and a mask to handle any samples that you suspect may contain excreta.

There is a separate tolerance for insect excreta in canola.

Representative portion for analysis

Minimum—working sample

Optimum—working sample

Export—working sample

Fertilizer pellets (FERT PLTS)

Fertilizer pellets are typically either small, round and white or irregular shaped and pink or red. Fertilizer pellets are not considered a hazardous substance however there is no visible means of assuring that material resembling fertilizer pellets is not some other contaminant.

Representative portion for analysis

Minimum—working sample

Optimum—working sample

Export—working sample

Procedures

- Handpick any fertilizer pellets and determine the concentration basis the net working sample.
- Fertilizer pellets are assessed as stones when the concentration does not exceed 1.0% of the net sample weight.
- Samples containing fertilizer pellets in excess of 1.0% of the net sample weight are graded *Canola, Held IP Suspect Contaminated Grain*.

Note: Canadian Grain Commission personnel should refer to ISO national work instruction "Suspect Contaminated Grain, Handling Procedures" for procedures to be followed when handling samples containing fertilizer pellets.

Fireburnt (FBNT)

Samples that show any evidence of being charred or scorched by fire are considered fireburnt. Evidence includes odour, pieces of charred wood, and so on. Fireburnt seeds pop when crushed.

Representative portion for analysis

Minimum—500 g Optimum—working Export—working sample sample

Procedures

Samples considered fireburnt are graded Canola, Sample Canada, Account Fireburnt

Foreign material (FM)

Foreign material in canola includes anything that is not canola, such as stones, ergot, sclerotinia, conspicuous admixture and inconspicuous admixture.

Green

See Distinctly green.

Heated (HTD)

Heated refers only to seeds that are distinctly or badly binburnt. Heated seeds may have a heated odour.

Crushed seeds may be

- Black—badly binburnt
- Dark chocolate brown—distinctly heated
- Light tan
 - light tan seeds without a heated odour are assessed as damaged
 - light tan seeds with a heated odour are assessed as heated
 - light tan seeds in combination with dark brown or black seeds, with or without a heated odour, are assessed as heated

Number of crushes (100-seed strips) for analysis

Minimum—5 (10 when any indication Optimum—10 Export—10 of heating is detected)

Procedures

- 1. Prepare and examine the appropriate number of strips from the cleaned sample.
- 2. A crush is made with one pass of the roller under firm pressure.
- 3. Examine the crushed seeds for evidence of heating.
- 4. Where any heated seeds are found in the initial 5 strips or a heated odour is detected a minimum of 10 strips must be analyzed.
- 5. Determine the percentage of heated seeds.

Inconspicuous admixture (INC ADMX)

Inconspicuous admixture is defined as seeds of common wild mustard, domestic oriental mustard and domestic brown mustard that are not readily distinguishable from canola.

Representative portion for analysis

Minimum—1 g

Optimum—5 g

Export—5 g

Procedures

To determine the percentage by weight of inconspicuous admixture, analyse the sample with the aid of a microscope.

Insect excreta (I EXCR)

▲ **Important:** Wear gloves and a mask to handle any samples that you suspect may contain excreta.

Representative portion for analysis

Minimum—100 g

Optimum—500 g

Export—500 g

Odour (ODOR)

There is no numeric tolerance for odour. Consider

- The basic quality of the sample
- The type and degree of the odour
- The presence of visible residue causing the odour

Representative portion for analysis

Minimum—working Optimum—working Export—working sample sample

If odour is the grade determinant and there is	Then the grade is
A distinct objectionable odour not associated with the quality of the grain, but not heated or fireburnt	Canola, Sample Canada, Account Odour
A distinct heated odour	Canola, Sample Canada, Account Heated
A distinct fireburnt odour	Canola, Sample Canada, Account Fireburnt

Rime

Rime is the lining of the pod adhered to the seed. Seeds that are completely and densely covered with white rime are classed as damaged in any grade. Seeds with light rime sparsely covering the seed coat are

- Classed as sound if not otherwise damaged
- Considered in the evaluation of colour. See Colour

Representative portion for analysis

Minimum—5 g

Optimum—25 g

Export—25 g

Procedures

See Damage.

Sclerotinia sclerotiorum (SCL)

Sclerotinia sclerotiorum is a fungus producing hard masses of fungal tissue, called *sclerotia*. The sclerotia vary in size and shape, have a course surface texture, vary in exterior color from dark black to gray to white and have a pure white interior.

Representative portion for analysis

Minimum—100 g

Optimum—500 g

Export—500 g

Soft earth pellets (SEP)

Soft earth pellets are

- Earth pellets that crumble into fine dust under light pressure, using a finger only—if they do not crumble, they are considered *Stones*
- Any non-toxic material of similar consistency

Representative portion for analysis

Minimum—working sample

Optimum—working sample

Export—working sample

Procedures

- 1. Handpick soft earth pellets from a representative portion of the cleaned sample.
- 2. Soft earth pellets are removed as dockage. See *Composition of dockage*.

Sprouted (SPTD)

Sprouted canola is defined as those seeds having a ruptured seed coat in combination with either a rootlet that protrudes beyond the normal contour of the seed or distinct swelling of the seed. Seeds having a ruptured seed coat that are otherwise sound are only considered sprouted when found in combination with seeds meeting the definition of sprouted.

Representative portion for analysis of uncrushed visually damaged seed.

Minimum—5 g

Optimum—10 g

Export—10 g

Procedures

- 1. Divide the sample to the appropriate representative portion.
- 2. Handpick the representative portion for sprouted seeds.
- 3. Determine the percentage by weight.

Note: Sprouted canola is included in "Total Damage" for grade assessment.

Staghead

Staghead or white rust is a fungal disease of canola. It affects the flowering parts of the plant, resulting in distorted antier-like structures that are often covered by white or grey powdery spores. For grading, staghead bodies are considered *Conspicuous admixture*.

Representative portion for analysis

Minimum—10 g

Optimum—25 g

Export—25 g

Stones (STNS)

Stones are hard shale, coal, hard earth pellets, and any other non toxic materials of similar consistency. Fertilizer pellets are assessed as stones when constituting 1.0% or less of the net sample weight. (See *Fertilizer pellets* for specific procedures to be followed when samples contain fertilizer pellets.)

Representative portion for analysis

Minimum—500 g Optimum—1000 g Export—1000 g

Procedures

- 1. Handpick stones from a representative portion of the cleaned sample.
- 2. Determine stone concentration in the net sample.
- In western Canada samples of grain containing stones in excess of "basic grade" tolerances, up to 2.5% are graded *Canola*, *Rejected "basic grade" Account Stones*. The "basic grade" refers to a grade established in the Canada Grain Regulations (grades listed in the first column in grade determinant tables) that would have been assigned to the sample if it contained no stones.
- In eastern Canada samples of grain containing stones in excess of grade tolerances are degraded to lower grades. Samples containing stones in excess of the tolerance of the lowest grade established by regulation up to 2.5% are graded *Canola*, *Sample Canada Account Stones*.
- In western and eastern Canada grain containing more than 2.5% stones is graded *Canola, Sample Salvage*.

Examples: Western Canada

Excerpt from grade determinant tables for Canola, Canada (CAN)

Grade name	Stones %
No. 1 Canada	0.05
No. 2 Canada	0.05
No. 3 Canada	0.05

If the above sample contained	Grade in western Canada
0.08% stones	Canola, Rejected No. 2 Canada Account Stones
3.0% stones	Canola, Sample Salvage

Examples: Eastern Canada

Excerpt from grade determinant tables for Canola, Canada (CAN)

Grade name	Stones %
No. 1 Canada	0.05
No. 2 Canada	0.05
No. 3 Canada	0.05

If the above sample contained	Grade in eastern Canada
0.08% stones	Canola, Sample Canada Account Stones
3.0% stones	Canola, Sample Salvage

Treated seed and other chemical substances

Treated seed

Treated seed is grain that has been coated with an agricultural chemical for agronomic purposes. These seed dressings contain a dye to render the treated seed visually conspicuous. The colour of the dye varies depending upon the type of treatment and the type of grain. The current Canadian colour standards for pesticide seed treatments are: cereals—pink or red, canola—baby blue or green. Seed treated with an inoculant may have a green stain. The coatings or stains may appear greasy or powdery and surface area distribution ranges from tiny flecks to complete coverage.

Other chemical substances

Other chemical substances refers to any chemical residues either adhering to the kernel or remaining in the sample and to samples having a chemical odour of any kind.

▲ **Important:** Wear gloves and a mask to handle any samples that you suspect may contain contaminated grain.

Representative portion for analysis

Minimum—working	Optimum—working	Export—working
sample	sample	sample

If a sample is suspected of being coated with a pesticide, desiccant, inoculant or if the sample contains evidence of any foreign chemical substance other than fertilizer pellets, the sample shall be graded *Canola*, *Held IP Suspect Contaminated Grain*.

Note: Canadian Grain Commission personnel should refer to ISO national work instruction "Suspect Contaminated Grain, Handling Procedures" for specific procedures to be followed when handling samples suspected of containing treated seed or other chemical substances.

Primary grade determinants tables

Canola, Canada (CAN)

	Standard of quality	Standard of cleanliness		
Grade name	Degree of soundness	Commercially pure seed		
No. 1 Canada	Reasonably well matured, sweet, good natural colour	Not more than 1.0% of other seeds that are conspicuous and that are not readily separable from canola, to be assessed as dockage		
No. 2 Canada	Fairly well matured, sweet, reasonably good natural colour	Not more than 1.5% of other seeds that are conspicuous and that are not readily separable from canola, to be assessed as dockage		
No. 3 Canada	May have the natural odour associated with low-quality seed, not distinctly sour, musty, rancid, or any odour that would indicate serious deterioration	Not more than 2% of other seeds that are conspicuous and that are not readily separable from canola, to be assessed as dockage		
Grade, if No. 3 specs not met		Canola, Sample Canada Account Admixture		

	Damage Foreign material									
Grade name	Distinctly green %	Heated %	Total %	Ergot %	Excreta %	Insect excreta %	Sclerotinia %	Stones %	Conspicuous admixture %	Inconspicuous admixture %
No. 1 Canada	2	0.1	5	0.05	0.02	0.10	0.05	0.05	1.0	5
No. 2 Canada	6	0.5	12	0.05	0.02	0.20	0.10	0.05	1.5	5
No. 3 Canada	20	2	25	0.05	0.02	0.3	<u>0.15</u>	0.05	2	5
Grade, if No. 3 specs not met	Canola, Sample Canada Account Damaged	Canola, Sample Canada Account Heated	Canola, Sample Canada Account Damaged	Canola, Sample Canada Account Ergot	Canola, Sample Canada Account Excreta	Canola, Sample Canada Account Excreta	Canola, Sample Canada Account Admixture	2.5% or less—Canola, Rejected (grade) Account Stones, or Canola, Sample Canada Account Stones Over 2.5%—Canola, Sample Salvage	Canola, Sample Canada Account Admixture	50% or less— <i>Canola, Sample Canada Account Admixture</i> Over 50%— <i>Refuse screenings</i>

Rapeseed, Canada (CAN)

	Standard of quality	Standard of cleanliness Commercially pure seed
Grade name	Degree of soundness	
No. 1 Canada	Reasonably well matured, sweet, good natural colour	Not more than 1.0% of other seeds that are conspicuous and that are not readily separable from rapeseed
No. 2 Canada	Fairly well matured, sweet, reasonably good natural colour	Not more than 1.5% of other seeds that are conspicuous and that are not readily separable from rapeseed
No. 3 Canada	May have the natural odour associated with low-quality seed, not distinctly sour, musty, rancid, or any odour that would indicate serious deterioration	Not more than 2% of other seeds that are conspicuous and that are not readily separable from rapeseed
Grade, if No. 3 specs not met		Rapeseed, Sample Canada Account Admixture

		Damage Foreign material								
Grade name	Distinctly green %	Heated %	Total %	Ergot %	Excreta %	Insect excreta %	Sclerotinia %	Stones %	Conspicuous admixture %	Inconspicuous admixture %
No. 1 Canada	2	0.1	5	0.05	0.02	0.10	0.05	0.05	1.0	5
No. 2 Canada	6	0.5	12	0.05	0.02	0.20	0.10	0.05	1.5	5
No. 3 Canada	20	2	25	0.05	0.02	0.3	<u>0.15</u>	0.05	2	5
Grade, if No. 3 specs not met	Rapeseed, Sample Canada Account Damaged	Rapeseed, Sample Canada Account Heated	Rapeseed Sample Canada Account Damaged	Rapeseed, Sample Canada Account Ergot	Rapeseed, Sample Canada Account Excreta	Rapeseed, Sample Canada Account Excreta	Rapeseed, Sample Canada Account Admixture	2.5% or less— Rapeseed, Rejected (grade) Account Stones, or Canola, Sample Canada Account Stones Over 2.5%— Rapeseed, Sample Salvage	Rapeseed, Sample Canada Account Admixture	50% or less— Rapeseed, Sample Canada Account Admixture Over 50%—Refuse screenings

Export shipments

Export shipments can be commercially clean or not commercially clean.

Commercially clean

Shipments defined as commercially clean may contain material as follows.

Definition of commercial cleanliness, canola

	Material remaining on top of rou including coarse gra %					
Grade name	Roughage material such as wild ade name oats, seed pods, knuckles Total					
No. 1 Canada	0.2	0.5	2.5			
No. 2 Canada	0.2	0.5	2.5			
No. 3 Canada	0.2	0.5	2.5			

Dockage is reported to the nearest

- 0.1% for samples representing commercially clean shipments loaded from a single terminal or transfer elevator
- 0.01% for composite samples representing shipments loaded from more than one terminal or transfer elevator

A deduction for broken and reasonably sound canola handpicked from the material and removed as dockage is allowed

- On shipments not for direct export, of up to 0.50%
- On shipments for direct export, of up to 0.75%

These deductions are applied to determine total net dockage for commercially clean shipments.

Not commercially clean (NCC)

Shipments that do not meet the standards for commercial cleanliness are referred to as *not commercially clean*. Such shipments are allowed only with he permission of the CGC.

For samples representing not commercially clean shipments approved by the CGC for shipment from terminal and transfer elevators, dockage is reported to the nearest

- 0.1% for samples representing commercially clean shipments loaded from a single terminal or transfer elevator
- 0.01% for composite samples representing shipments loaded from more than one terminal or transfer elevator

Instead of the allowances for broken seed in commercially clean shipments, a direct deduction of up to 0.2% is applied to establish net dockage.

Determination of dockage

Follow procedures for normal cleaning, with the Carter dockage tester set up as follows:

Feed control	#3
Air control	#5
Riddle	No. 000
Top sieve	Blank tray
Centre sieve	None
Bottom sieve	None
Sieve cleaner	Off

You will also need the following hand sieves.

Round-hole sieves	Slotted sieves
No. 5	No028
No. 5.5	No032
No. 6	
No. 6.5	
No. 7	
No. 7.5	

Composition of dockage

In export grade canola, dockage consists of

- Material other than canola that passes over the No. 000 riddle or remains on top of the round-hole sieve
- Material that passes through the No. 028 or .032 slotted sieve, less the applicable allowance of broken and reasonably sound canola
- Material removed by aspiration
- Conspicuous admixture handpicked from the cleaned sample

Grading

Canola on export is graded in accordance with export specifications. Where there are no export specifications, the primary specifications are used.

Export grade determinants tables

Canola and rapeseed, Canada (CAN)

			Damage			Foreign material				
Grade name	Total removable material %	Distinctly green %	Heated %	Total %	Ergot %	Insect excreta %	Sclerotinia %	Stones %	Conspicuous admixture %	Inconspicuous admixture %
No. 1 Canada	2.5	2	0.1	5	0.05	0.10	0.05	0.05	1.0	5
No. 2 Canada	2.5	6	0.5	12	0.05	0.20	0.10	0.05	1.5	5
No. 3 Canada	2.5	20	2	25	0.05	0.3	<u>0.15</u>	0.05	2	5