

CANOLA GRADING GENERAL INFORMATION

Canola is an oil crop is grown primarily in Canada and northern US climates such as North Dakota.

- a) Refer to and be familiar with the USDA FGIS Grain Inspection Handbook II Canola Chapter 3**
Find this material at www.gipsa.usda.gov
On the left side of the screen, click on **Federal Grain Inspection**; then **Handbooks**; then **Grain Inspection Handbook II**; then locate **Chapter 3** beginning on page 3-1. The pertinent parts of this chapter we will be using are **Sections 3.1 through 3.20** with the exception of the information regarding **base factor changing on page 3-14**. There will be no change of base factor in this contest.
- b) Expressing the Grade line for Canola is similar to the way wheat is expressed, i.e. Dockage figure must appear at the end of the Grade and Kind line (page 3-2):**
For example: **U.S. No. 2 Canola, Dockage 5.4%**
- c) Calculate the numerical grade in the same manner as other grains. For example, 0.2% Heat Damage would grade the sample US No. 2 Canola, or an ergot content of 0.06% would make the problem Sample Grade, etc. (Grade Chart page 3-2)**
- d) Assume a Base price used in will be \$22.00 per hundred wt (cwt)**
- e) Assume there will be no Inconspicuous Admixture (last column on the Grade Chart page 3-2).**
- f) Dockage in Canola is both machine separated and handpicked Conspicuous Admixture (page 3-11). However, note that on the score card the different Dockages are listed individually, i.e. the DOCKAGE box will be for MACHINE SEPARATED DOCKAGE ONLY and Conspicuous Admixture such as ERGOT,**

STONES, etc. have their own boxes. Remember, all dockages are added together to determine the figure that appears on the end of the Grade line, but ONLY the Conspicuous Admixtures are Grade determining factors.

- g) All Dockage is removed from the weight of the load. This is the same as discounting the price. For example, a 40,000 lb load at \$14 per cwt, all else being good, would be worth \$5600 (40,000 lb divided by 100 equals 400 cwt x \$14 per cwt). A 10% dockage would reduce that load by 4000 lbs or 40 cwt; now the load is only worth \$5040 (400 cwt – 40 cwt = 360 cwt x \$14 = \$5040) If the price were discounted by 10%, the price would be \$12.60 cwt(\$14 – 10%) That same load of 40,000lbs or 400 cwt x \$12.60 = \$ 5040. In this contest, you will discount the price.**

h) DAMAGE

Determine all percentages of damage, except Distinctly Green and Heat Damage kernels, upon the basis of weight. Determine the percentage of Distinctly Green and Heat Damage by count.

In the real world, a sample is cut down to approximately 5 grams. A board with 500 dimples is used; the Canola is spread over the board to fill all 500 dimples. Clear tape is placed over the Canola and then the Canola kernels is crushed to expose the interior. The Canola is inspected for the number of Distinctly Green and Heat Damage. As an example a sample has are 16 Distinctly Green kernels, the percentage of Green would be 3.2% (16 divided by 500 = 3.2%). For this contest, separations of Distinctly Green and Heat Damage kernels will have crushed seeds to judge the color compared to the interpretive line print. The counts will be given. The contestant needs to determine whether or not the separation is Distinctly Green, or Heat Damage, or sound. As with Dockage, the contestant must add all damages together to get a numerical grade,

but each damage is listed separately on the score card.

i) For this contest, the only Sample Grade factors to be listed on the Sample Grade factors line of the scorecard will be those listed on lines b, c and d found on the bottom of the grade chart (page 3-2)

j) Scoring. Each grain grading sample is worth 50 pts.

The breakdown for scoring is as follows:

Under the AMOUNTS column, each box will have an entry and be worth 1 point.

Only one entry will be made in Sample Grade and Special Grade when there are no or only one factor present. The column is then worth 14 points.

The grade line is worth 11 points. If more than one Sample Grade or Special Grade factor is present, the column will be worth 15 to 17 points, dependent upon the number of Sample Grade and Special Grade factors.

The value of the grade line will be reduced by the number of additional Sample Grade and Special Grade factors.

The Amounts column and Grade Line together are worth 25 points.

The discount column and final price are worth 25 points; one point for each box in the discount column.

Treated the same way as the Amounts column, 14 points unless more than one Sample Grade and Special Grade factor is present.

The final price is then worth 11 points, reduced by 1 point for each additional Sample Grade or Special Grade factor.