

GRAIN INSPECTION VISUAL REFERENCE IMAGES

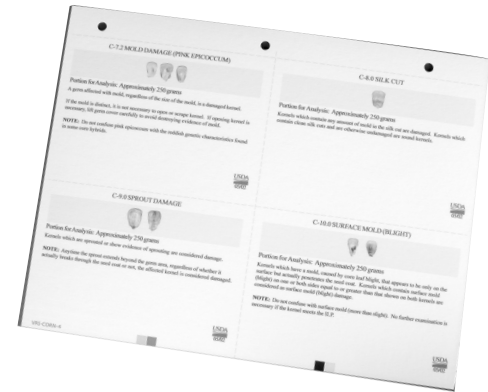
Visual reference images (VRI) are a visual aid in grading grain, rice, dry beans, dry lentils and other commodities and are used by all official grain inspectors. Each image is produced digitally on the official 'wheat' colored background, rice is on a blue or white background. Dated and approved by GIPSA. Often used by house graders, no grain elevator or inspector should work without these official tools.

Generally, there are 4 images per sheet and each sheet can be purchased either individually or in complete sets by commodity. Produced on an 8½" x 11" laminated sheet for insertion into a binder, these replace the former photographic slide based system used by USDA/GIPSA inspectors. In addition, the image includes instructions for portion size and a description of the damage the image represents.

COMPLETE SETS

Barley	No. VRI-BARLEY SET
Canola	No. VRI-CANOLA SET
Corn	No. VRI-CORN SET
Edible Beans	No. VRI-BEAN SET
Flax Seed	No. VRI-FLAX SET
Lentils	No. VRI-LENTIL SET
Oats	No. VRI-OAT SET
Peas	No. VRI-PEA SET

Rice	No. VRI-RICE SET
Rye	No. VRI-RYE SET
Sorghum	No. VRI-SORGHUM SET
Soybean	No. VRI-SOYBEAN SET
Sunflower	No. VRI-SUNFL SET
Wheat	No. VRI-WHEAT SET



INDIVIDUAL SHEETS

VRI - BARLEY1

B-1.0	Blight and/or Mold Damage
B-1.1	Mold Damage
B-3.0	Injured By Frost
B-3.1	Frost Damage

VRI - BARLEY2

B-4.0	Germ Damage (discolored and/or mold)
B-5.0	Injured by Heat
B-5.1	Heat Damaged
B-6.0	Weevil or Insect Bored

VRI - BARLEY3

B-7.0	Injured by Mold
B-8.0	Sprout Damage
OF-2.1	Skinned & Broken
OF-2.3	Two-Rowed and Six-Rowed

VRI - BEAN1

BEAN-1.0	Badly Damaged
BEAN-2.0	Clean-Cut Weevil-Bored
BEAN-2.1	Visible Window Damage (Weevil)
BEAN-3.0	Dirt & Grime Pea Beans (Not Damage)

VRI - BEAN2

BEAN-3.1	Dirt & Grime Damage (other than pea beans)
BEAN-4.0	Frost Damaged
BEAN-5.0	Green Chickpea
BEAN-6.0	Insect Stung Damage (Blackeye)

VRI - BEAN3

BEAN-6.1	Insect Stung Damage (Other Beans)
BEAN-6.2	Insect Stung Damage (White Beans)
BEAN-7.0	Insect Webbing or Filth
BEAN-8.0	Worm Eaten Damage

VRI - BEAN4

BEAN-9.0	Mold Damage
BEAN-9.1	Mold Damage (pink)
BEAN-10.0	Nightshade Damage
BEAN-11.0	Sprout Damaged

VRI-BEAN5

BEAN-12.0	Water Blistered Damage
BEAN-12.1	Tiger Stripe
BEAN-12.2	Water Blistered Damage (Pink Beans)
BEAN-13.0	Damaged (Pieces)

VRI-BEAN6

BEAN-14.0	Internal (Respiration) Damage
BEAN-15.0	Machine Damage

VRI-CANOLA (one sheet only)

CANOLA-1.0	Distinctly Green
CANOLA-2.0	Heat Damage
CANOLA-3.0	Other Damage (A. rime B. frost)
CANOLA-4.0	Sprout Damage (A. damaged B. not damaged)

VRI-CORN1

C-1.0	Blue Eye Mold Damage
C-1.1	Purple Plumule (not damage)
C-2.0	Cob Rot Damage
C-3.0	Drier Damage

VRI-CORN2

C-4.0	Germ Damage
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C-4.2	Not Germ Damage
C-5.0	Heat Damage (Drier)
C-5.1	Heat Damage (White)

VRI-CORN3

C-5.2	Heat Damage (Yellow)
C-6.0	Insect Damage
C-7.0	Mold Damage
C-7.1	Not Damage (Dirt)

VRI-CORN4

C-7.2	Mold Damage (Pink Epicoccum)
C-8.0	Silk Cut
C-9.0	Sprout Damage
C-10.0	Surface Mold (Blight)

VRI-CORN5

C-11.0	Surface Mold-More than Slight
OF-7.1	Mixed Corn (More than Slight Tinge-Straw)
OF-7.2	Mixed Corn (White Capped Yellow Corn)
OF-7.3	Flint and Dent Corn

VRI-CORN6

OF-7.4	Sweet Corn and Popcorn-BCFM
OF-7.5	Corn of Other Colors
OF-7.7	Mixed Corn (More than slight tinge pink)
OF-7.7.1	Mixed Corn (Purple Pigmented)

VRI-CORN7

OF-7.8	Slightly Yellow (White Waxy) Corn
OF-7.9	Yellow and White Corn (Waxy)
OF-7.9.1	Yellow and White Corn (Not Waxy)

VRI-FLAXSEED (1 Sheet Only)

F-1.0	Damaged (Bees Wings)
F-2.0	Damaged by Heat
F-3.0	Heat Damaged

VRI-LEN1

LEN-1.0	Insect Stung Damage
LEN-1.1	Blight (Ascochyta)
LEN-1.2	Frost Damage
LEN-1.3	Heat Damage

VRI-LEN2

LEN-1.4	Damaged by Heat
LEN-1.5	Mold Damage
LEN-1.6	Sprout Damage
LEN-1.7	Skinned

VRI-LEN3

LEN-1.8	Dirt/Grime
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VRI-OATS1

O-1.0	Badly ground and/or weather damage
O-1.1	Weather damaged (stained)
O-2.0	Germ damage (sick and/or mold)
O-2.1	Mold Damage

VRI-OATS2

O-3.0	Heat Damage
O-4.0	Insect Damage
O-5.0	Sprout Damage

VRI-PEAS1

PEAS-1.0	Damaged
PEAS-1.1	Damage (A. dirt B. Grime)
PEAS-1.2	Heat Damage
PEAS-1.3	Damaged by Heat