

## Determining Grain Equivalents for Snaplage and High Moisture Corn for CFAP

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This tool helps a farmer calculate grain equivalents for snaplage and high moisture corn for including in 2019 production for determining CFAP payments.

Begin by downloading the Fractionated Silage to Corn Bushel Calculator spreadsheet: <u>https://aae.wisc.edu/pdmitchell/wp-</u>content/uploads/sites/15/2020/06/SnaplageHMCtoCornGrain.xlsx.

Step 1: Enter the dry matter percentage in yellow cells for Snaplage, HM ear corn or HM corn, whichever ones are needed, or use the default values.

## If the inventory is known

Step 2: In the yellow cells, enter the tons of Snaplage, HM ear corn or HM corn as fed.

- The equivalent bushels of corn grain at 15.5% moisture are reported in peach below. If the inventory is not known
- Step 3: In the yellow cells, enter the inventory volume as cubic feet for Snaplage, HM ear corn or HM corn, whichever ones are needed.
  - If the volume is not known, there are calculators or links to spreadsheets to calculate the volume of a silo, silo bag, bunker or pile.

Step 4: In the yellow cells enter the feed density as pounds of DM per cubic foot or use the defaults for Snaplage, HM ear corn or HM corn.

• The equivalent bushels of corn grain at 15.5% moisture are reported in peach below.

## Example: Inventory known

- 1. On January 15, 2020, estimated inventory was 800 tons of snaplage, 40 tons of HM ear corn and 100 tons of HM corn
- 2. Dry matter percentages are 65% (35% moisture) for snaplage, and 73% for HM ear corn and corn (27% moisture).
- 3. In the peach cells, the spreadsheet calculates corn grain equivalents of 17,582 bu for the snaplage, 1,111 bu for the HM ear corn and 3,085 bu for the HM corn, for a total of 17,582 + 1,111 + 3,085 = 21,779 bu of corn grain equivalent.

## Example: Inventory unknown

- 1. On January 15, 2020, estimated volume of inventory was
  - Snaplage: 12,566 cubic ft in a silo (20 ft diameter x 40 ft filled height) based on the calculator
  - HM ear corn: 6,736 cubic ft of in a silo bag based on the calculator (8 ft bag, 150 ft of plastic, tied off at both end with 8 ft of bag = 134 ft of bag length)
  - HM corn: 9,249 cubic ft of high moisture corn in a silo bag (8 ft bag, 200 ft of plastic, tied off at both end with 8 ft of bag = 184 ft of bag length).
- 2. Feed densities were left at respective default values of 35, 40 and 45 lbs of DM per cubic ft.
- 3. In the peach cells, the spreadsheet calculates corn grain equivalents of 7,436 bu for the snaplage, 5,125 bu for the HM ear corn and 8,796 bu for the HM corn, for a total of 7,436 + 5,125 + 8,796 = 21,356 bu of corn grain equivalent.