

FORM C 1 CORN OBJECTIVE YIELD - 2024

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**United States
 Department of
 Agriculture**



**NATIONAL
 AGRICULTURAL
 STATISTICS
 SERVICE**

Date sample received in lab: _____

EAR WEIGHT

1. Weight of third and fourth ears and loose kernels.....
2. Weight of remaining ears and loose kernels.....

	401
	Grams to Hundredths . ____
	402
	Grams to Hundredths . ____

GRAIN WEIGHT and MOISTURE DETERMINATIONS

Shell grain from the third and fourth ears. If ears are too wet to shell easily, dry them for a short period at no more than 70 degrees C, before shelling.

3. Weight of all grain shelled from the third and fourth ears at time of moisture test.....
4. Moisture content of shelled grain..... Percent (One Decimal)

	404
	Grams to Hundredths . ____
	405
	Percent (One Decimal) . ____

For small samples, use the formula on the back of this form for moisture percent

5. Was the grain used for the moisture determination over dried and/or wetted to enable processing of the sample?

Yes – Enter code from Below No – Enter code 4

410

1 = Sample was oven dried only
2 = Sample was wetted only
3 = Sample was oven dried AND wetted

Lab Technician(s) _____ Date Analysis Completed _____

MM DD

FORM C-1: CORN

^{1/}If sample weight is too small for moisture test, sufficient grains of known moisture content (use same class and stage of maturity) will be added to the sample so that a moisture test can be made. The moisture content of the sample can then be derived using the following formula.

$$E = \frac{(A + B) D - (B \times C)}{A}$$

Where A = Weight of small sample ____ ____	Grams
B = Weight of additional grain required for moisture test ____ ____	Grams
C = Moisture percent of B ____	Percent
D = Moisture percent of A + B combined ____	Percent
E = Result: Moisture percent of small sample (<i>enter in item 4</i>) ____	Percent