



FORM C-1 Corn Maturity Code-6 Lab Determinations 2018



**NATIONAL
AGRICULTURAL
STATISTICS
SERVICE**

Date: _____

EAR WEIGHT

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

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

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

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

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

5. Was the grain used for the moisture determination oven 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 _____

Date Analyzed _____

MM DD

FORM C-1: CORN

If the 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 corn 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 corn sample (enter in item 4) ____	Percent