

# Measurement of Grain Moisture with Hygrometer



- Place handful of grain (maize shown) in small sealable bag with hygrometer.
- Push air out and seal bag.
- Place bag in shaded area.



If above 65%, too wet

**OR**

If below 65%, good for storage

**OR**

If below 60%, good for market

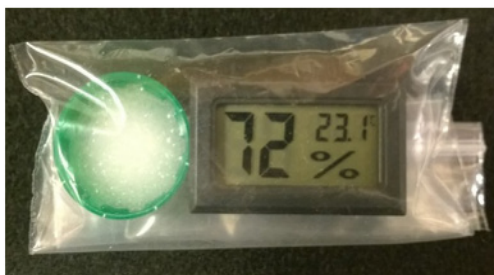
## ***Equilibrium Moisture Content***

*Table below is for maize only.*

**Using the values from the hygrometer (humidity and temperature), this table can be used to estimate the maize moisture content.**

		Relative Humidity (%)						
		50	55	60	65	70	75	80
Temperature (°C)	15	11.9	12.6	13.3	14.1	14.9	15.8	16.8
	18	11.6	12.3	13.0	13.8	14.6	15.5	16.6
	21	11.4	12.0	12.8	13.5	14.3	15.3	16.3
	24	11.1	11.8	12.5	13.3	14.1	15.0	16.1
	27	10.8	11.5	12.3	13.0	13.9	14.8	15.9
	30	10.6	11.3	12.0	12.8	13.6	14.6	15.6
	33	10.4	11.1	11.8	12.6	13.4	14.4	15.4
	36	10.2	10.9	11.6	12.4	13.2	14.2	15.2

## ***Calibrate the Hygrometer***



- **Place salt in water bottle cap, then add enough water to wet the salt.**
- **Place in bag with the hygrometer.**
- **After 24 hours, hygrometer should read between 70+74%.**
- **If reading is not correct, hygrometer needs replacing.**