

# Protimeter Calibration Data

This data supercedes all previous issues

## How to use this chart

This chart can be used to measure the moisture level of the listed crop in conjunction with Protimeter Compressor/Grinder grain moisture instruments having a 0-100 reference scale or the Protimeter **Wheat Calibration - soft** (ISO R712 equivalent). Converting the reference reading obtained for the sample by looking up or down the column until intersection is made with the row of the crop under test.

**Example:** Assume the crop under test is linseed with a 0-100 scale reading of 45 (or wheat scale reading of 17.9), the actual moisture content is 11.6% +/- the working tolerance.

CROP		Quick Check Value																		
		5	10	15	20	25	30	35	36.5	40	45	50	55	60	65	70	75	80	85	
SCALE	0-100																			
Barley I.S.O. 712	Ground	10.9	11.8	12.5	13.3	14.1	14.8	15.7	16.0	16.9	17.8	18.8	19.8	20.8	22.1	23.6	25.4	27.6		
Beans/Tic/Winter	Ground	12.4	13.4	13.8	14.1	14.8	15.4	16.3	16.5	17.0	17.7	18.3	19.0	19.7	20.6	21.5	22.6	23.9		
Borage	Ground	6.2	8.2	8.7	11.2	11.4	11.6	12.5	12.7	14.0	14.1	15.1	15.5	15.8	16.8					
Buckwheat	Ground	12.1	12.8	13.5	14.2	14.9	15.6	16.5	16.8	17.5	18.5	19.5	20.5	21.6	23.0	24.6	26.4	28.2		
Canola I.S.O. 665	Ground			7.0	7.5	8.3	9.2	9.4	9.9	10.7	11.6	12.7	13.9	15.8	17.8	20.2	23.3			
Clover, Red/Lucerne Seed	Whole	9.1	9.9	10.4	11.1	11.8	12.3	13.0	13.2	13.7	14.5	15.3	16.1	16.9	18.0	19.2	20.5			
Clover Seed, White	Whole	9.0	9.9	10.5	11.3	12.1	12.8	13.6	13.8	14.5	15.3	16.2	17.2	18.1	19.5	21.0	22.5			
Coco Beans	Whole	3.9	4.5	4.9	5.5	6.0	6.4	6.9	7.1	7.5	7.9	8.3	8.8	9.2	9.6	10.1	10.7			
Coffee	Ground		10.2	10.6	11.2	11.9	12.6	13.3	13.5	14.0	14.7	15.4	16.2	17.1	18.8	20.6				
Coffee	Whole	9.8	10.7	11.5	12.8	13.9	15.2	16.4	16.8	17.8	18.9	20.0	21.1	22.3	23.4	24.6				
Coffee, Green	Ground		10.2	11	12.3	13	13.8	14.4	14.7	15.2	16	16.8	17.5	18.3	19.1	20.9				
Durum (G)	Ground	10.8	11.5	11.9	12.7	13.1	13.9	14.7	15.5	16.4	17.5	18.4	19.5	20.9	22.1	23.8				
Evening Primrose	Ground	7.7	8.4	9.0	9.7	10.5	11.4	12.3	12.6	13.3	14.4	15.9	17.5	19.0	22.0					
Flax	Whole	6.9	7.4	7.8	8.5	9.0	9.4	10.1	10.3	10.8	11.6	12.6	13.6	14.6	15.7					
Flour	As is	12.4	12.9	13.4	13.9	14.5	15.0	15.7	15.9	16.3	17.0	17.6	18.3	18.9	19.6	20.2	20.8	21.4	22.1	
Flower/Soft Wheat	As is	12.9	13.7	14.2	15.0	15.7	16.3	17.0	17.3	17.9	18.7	19.6	20.4	21.3	22.5	23.7				
Grass Meal (Including Lucerne)	As is	6.5	7.0	7.7	8.3	8.9	9.5	10.2	10.4	10.8	11.6	12.4	13.2	14.2	15.4	16.8	18.6	20.6		
Grass Seed/Cocksfoot	Whole	8.3	9.2	9.7	10.5	11.1	11.8	12.6	12.8	13.3	14.1	14.9	15.7	16.6	17.9	19.4	21.2			
Grass Seed/Ryegrass	Whole	10.4	11.3	11.9	12.7	13.5	14.2	15.0	15.3	16.0	17.0	18.1	19.1	20.2	21.8	23.6				
Ground Nuts/Hulled	Whole	5.5	6.1	6.5	6.9	7.2	7.6	8.0	8.1	8.5	8.8	9.3	9.8	10.4	12.9					
Lentils	Ground	11.8	12.3	12.6	13.0	13.6	14.0	14.6	14.8	15.1	15.7	16.4	17.1	17.9	18.8					
Linseed	Whole	7.0	7.4	7.8	8.3	8.9	9.4	10.1	10.3	10.8	11.6	12.5	13.5	14.6	16.0	16.5				
Lupins	Ground		8.0	9.4	10.9	12.3	12.5	13.1	13.5	14.8	16.0	17.0	17.5	17.9	18.8	20.9	21.5	22.0		
Maize/Corn	Ground	10.4	11.4	12.1	13.0	13.8	14.6	15.5	15.8	16.6	17.4	18.0	18.9	20.0	21.1	22.4	23.7	25.1		
Maize/Corn	Whole	11.4	12.0	12.7	13.5	14.1	14.8	15.7	15.9	16.6	17.5	18.4	19.3	20.2	21.4	22.8	24.2	25.9		
Millet	Ground	9.5	9.9	10.5	11.0	11.8	12.5	13.3	13.9	14.9	15.2	16.2	16.7	17.2	17.9	18.5	19.2	19.9		
Mustard Seed	Ground	7.7	8.2	8.7	9.4	10.0	10.6	11.5	11.7	12.2	13.2	14.1	15.1	16.1	17.3					
Naked Oats (G)	Ground	11.4	12.3	13.0	13.8	14.6	15.3	16.2	17.4	18.3	19.3	20.3	21.3	22.6	24.1	25.9	28.1			
Oats I.S.O. 712	Ground	10.9	11.8	12.5	13.3	14.1	14.8	15.7	16.0	16.9	17.8	18.8	19.8	20.8	22.1	23.6	25.4	27.6		
Oilseed Rape I.S.O. 665	Ground			7.0	7.5	8.3	9.2	9.4	9.9	10.7	11.6	12.7	13.9	15.8	17.8	20.2	23.3			
Paddy	Ground	10.4	11.4	12.1	13.0	13.8	14.6	15.5	15.8	16.6	17.4	18.0	18.9	20.0	21.1	22.4	23.7	25.1		
Paddy	Whole	10.1	11.0	11.6	12.3	13.1	13.8	14.7	15.0	15.8	16.9	17.9	19.1	20.3	21.9	23.7	25.7	27.8		
Peas (Field protein type)	Ground	12.0	12.9	13.8	14.5	15.4	16.2	17.2	17.5	18.3	18.9	20.0	21.8	22.5	23.0	24.3	25.3	27.4	30.0	
Peas (Progreta marrowfat type)	Ground	9.4	10.3	10.9	11.9	12.7	13.6	14.6	14.9	15.7	16.5	17.6	18.8	19.8	21.4	22.6	23.8	25.9	27.3	
Rice(milled)	Whole		13.2	13.9	14.8	15.5	16.3	17.2	17.5	18.4	19.5	20.7	22.0	23.3	25.6	27.2				
Semolina	As is	12.3	13.0	13.3	14.0	14.8	15.5	16.5	16.8	17.4	18.3	19.1	20.0	21.0	22.0	23.2				
Sorghum/Milo	Ground	10.2	11.7	12.4	13.1	13.9	14.6	15.4	15.6	16.3	17.1	17.9	18.7	19.6	20.9	22.2	23.7	25.4		
Sorghum/Milo	Whole	11.2	12.2	12.9	13.7	14.5	15.2	16.1	16.3	17.0	17.8	18.7	19.7	20.6	22.0	23.4	24.9	26.6		
Soya Beans	Ground	7.4	8.2	8.8	9.7	10.4	11.1	11.8	12.0	12.6	13.4	14.3	15.2	16.0	17.1	18.2	19.5	21.0		
Soya Beans	Whole	9.3	10.4	10.8	11.5	12.2	13.0	14.0	14.3	15.1	16.1	17.2	18.4	19.6	21.2	22.8	24.6	26.8		
Sprout/Cabbage Seed	Whole/Ground	7.3	7.9	8.3	8.8	9.2	9.5	9.9	10.0	10.4	10.8	11.2	11.7	12.3	13.1					
Sugarbeet Seed	Whole	7.6	8.4	8.8	9.6	10.2	10.8	11.4	11.6	12.1	12.9	13.6	14.2	14.8	15.7	16.7	17.8	19.1		
Sunflower Seed	Whole	6.2	6.9	7.4	8.2	8.7	9.4	10.2	10.5	11.3	12.1	13.1	14.2	15.3	17.0	19.0	21.4			
Wheat/Rye - Hard I.S.O. 712	Ground	12.0	13.0	13.7	14.5	15.3	16.0	16.8	17.0	17.7	18.6	19.6	20.8	22.0	23.4	25.0	26.8	28.7		
Wheat/Rye - Soft I.S.O. 712	Ground	11.3	12.3	13.0	13.8	14.6	15.3	16.1	16.3	17.0	17.9	18.9	20.1	21.3	22.7	23.3	26.1	28.0		

**NB.** If you are testing the moisture content of hard endosperm texture wheat, please refer to the Wheat/Rye - Hard I.S.O. 712 calibration given above.

**Please note:** The difference in calibration values for hard and soft wheat may not hold true for all hard wheat varieties. If in doubt, obtain tests of hard wheat sample so that the calibration can be verified for your hard wheat variety.

### Notes:

- Calibrations marked in red are the same as the electronic calibrations in GE Protimeter instruments manufactured and serviced from January 1999 onwards.
- Crop calibration characteristics vary over time. For optimum meter results, always ensure you use a current calibration chart.
- The most common cause of measurement error is attributable to poorly maintained instruments. Always have your moisture meter serviced by Martin Lishman Ltd (sole Protimeter service agent) on a regular basis to ensure optimum accuracy and reliability.
- Protimeter moisture instruments automatically adjust the moisture reading with respect to temperature when Automatic Temperature Correction (ATC) is activated. We recommend ATC be activated whenever measuring grain samples. For best results ensure that the sample under test is at the same temperatures the instrument test cell.
- Protimeter crop calibrations are mean values of laboratory test results. As such, they should not be considered as absolute: local environmental conditions, soil characteristics, crop varieties and other variables may lead to differences in some cases. Growers may choose to match their Protimeter instrument calibrations with respect to an agreed reference (eg. a merchant's moisture instrument) by using the calibration adjust facility.

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