

BARLEY EQUILIBRIUM MOISTURE CONTENT

TEMPERATURE (°F)

	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
R.H.	MOISTURE CONTENT (% W.B.)																
5%	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.2	3.1	3.1	3.1	3.1	3.1	3.0	3.0	3.0	3.0
10%	4.7	4.6	4.6	4.6	4.5	4.5	4.5	4.4	4.4	4.4	4.4	4.3	4.3	4.3	4.3	4.2	4.2
15%	5.7	5.7	5.6	5.6	5.6	5.5	5.5	5.5	5.4	5.4	5.4	5.3	5.3	5.3	5.2	5.2	5.2
20%	6.6	6.6	6.5	6.5	6.5	6.4	6.4	6.3	6.3	6.3	6.2	6.2	6.1	6.1	6.1	6.0	6.0
25%	7.5	7.4	7.4	7.3	7.3	7.2	7.2	7.1	7.1	7.0	7.0	7.0	6.9	6.9	6.8	6.8	6.8
30%	8.2	8.2	8.1	8.1	8.0	8.0	7.9	7.9	7.8	7.8	7.7	7.7	7.6	7.6	7.5	7.5	7.5
35%	9.0	8.9	8.8	8.8	8.7	8.7	8.6	8.6	8.5	8.5	8.4	8.4	8.3	8.3	8.2	8.2	8.1
40%	9.7	9.6	9.6	9.5	9.4	9.4	9.3	9.3	9.2	9.1	9.1	9.0	9.0	8.9	8.9	8.8	8.8
45%	10.4	10.3	10.2	10.2	10.1	10.1	10.0	9.9	9.9	9.8	9.8	9.7	9.7	9.6	9.5	9.5	9.4
50%	11.1	11.0	10.9	10.9	10.8	10.7	10.7	10.6	10.6	10.5	10.4	10.4	10.3	10.3	10.2	10.1	10.1
55%	11.8	11.7	11.6	11.6	11.5	11.4	11.4	11.3	11.2	11.2	11.1	11.0	11.0	10.9	10.9	10.8	10.7
60%	12.5	12.4	12.4	12.3	12.2	12.1	12.1	12.0	11.9	11.9	11.8	11.7	11.7	11.6	11.5	11.5	11.4
65%	13.3	13.2	13.1	13.0	13.0	12.9	12.8	12.7	12.7	12.6	12.5	12.5	12.4	12.3	12.3	12.2	12.1
70%	14.1	14.0	13.9	13.8	13.8	13.7	13.6	13.5	13.4	13.4	13.3	13.2	13.1	13.1	13.0	12.9	12.9
75%	15.0	14.9	14.8	14.7	14.6	14.5	14.4	14.4	14.3	14.2	14.1	14.0	14.0	13.9	13.8	13.7	13.7
80%	15.9	15.8	15.7	15.6	15.6	15.5	15.4	15.3	15.2	15.1	15.0	15.0	14.9	14.8	14.7	14.6	14.6
85%	17.1	17.0	16.9	16.8	16.7	16.6	16.5	16.4	16.3	16.2	16.1	16.0	15.9	15.9	15.8	15.7	15.6
90%	18.5	18.4	18.2	18.1	18.0	17.9	17.8	17.7	17.6	17.5	17.5	17.4	17.3	17.2	17.1	17.0	16.9
95%	20.5	20.4	20.3	20.2	20.1	19.9	19.8	19.7	19.6	19.5	19.4	19.3	19.2	19.1	19.0	18.9	18.9

Dr. Kenneth J. Hellevang, PE
 NDSU Extension Service
 Fargo, ND 58105

Source: ASAE D245.4 Modified Henderson Equation

CORN EQUILIBRIUM MOISTURE CONTENT																	
TEMPERATURE (°F)																	
	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
R.H.	MOISTURE CONTENT (% W.B.)																
5%	3.9	3.8	3.7	3.6	3.5	3.4	3.3	3.2	3.2	3.1	3.0	3.0	2.9	2.9	2.8	2.8	2.7
10%	5.7	5.5	5.3	5.2	5.0	4.9	4.8	4.7	4.6	4.5	4.4	4.3	4.2	4.2	4.1	4.0	3.9
15%	7.0	6.8	6.6	6.4	6.3	6.1	6.0	5.8	5.7	5.6	5.5	5.4	5.3	5.2	5.1	5.0	4.9
20%	8.2	8.0	7.8	7.6	7.4	7.2	7.0	6.9	6.7	6.6	6.4	6.3	6.2	6.1	6.0	5.9	5.8
25%	9.3	9.1	8.8	8.6	8.3	8.1	8.0	7.8	7.6	7.5	7.3	7.2	7.0	6.9	6.8	6.7	6.6
30%	10.4	10.0	9.8	9.5	9.3	9.0	8.8	8.6	8.5	8.3	8.1	8.0	7.8	7.7	7.6	7.4	7.3
35%	11.3	11.0	10.7	10.4	10.2	9.9	9.7	9.5	9.3	9.1	8.9	8.8	8.6	8.4	8.3	8.2	8.0
40%	12.3	11.9	11.6	11.3	11.0	10.8	10.5	10.3	10.1	9.9	9.7	9.5	9.3	9.2	9.0	8.9	8.7
45%	13.2	12.8	12.5	12.2	11.9	11.6	11.3	11.1	10.9	10.7	10.5	10.3	10.1	9.9	9.7	9.6	9.4
50%	14.2	13.8	13.4	13.0	12.7	12.4	12.2	11.9	11.7	11.4	11.2	11.0	10.8	10.6	10.5	10.3	10.1
55%	15.1	14.7	14.3	13.9	13.6	13.3	13.0	12.7	12.5	12.2	12.0	11.8	11.6	11.4	11.2	11.0	10.9
60%	16.1	15.6	15.2	14.8	14.5	14.2	13.9	13.6	13.3	13.0	12.8	12.6	12.4	12.1	12.0	11.8	11.6
65%	17.1	16.6	16.2	15.8	15.4	15.1	14.8	14.4	14.2	13.9	13.6	13.4	13.2	13.0	12.7	12.5	12.4
70%	18.2	17.7	17.2	16.8	16.4	16.0	15.7	15.4	15.1	14.8	14.5	14.3	14.0	13.8	13.6	13.4	13.2
75%	19.3	18.8	18.3	17.9	17.5	17.1	16.7	16.4	16.1	15.8	15.5	15.2	15.0	14.7	14.5	14.3	14.1
80%	20.6	20.0	19.5	19.1	18.7	18.3	17.9	17.5	17.2	16.9	16.6	16.3	16.0	15.8	15.5	15.3	15.1
85%	22.1	21.5	21.0	20.5	20.0	19.6	19.2	18.8	18.5	18.1	17.8	17.5	17.2	17.0	16.7	16.5	16.2
90%	23.9	23.3	22.7	22.2	21.7	21.3	20.9	20.5	20.1	19.7	19.4	19.1	18.8	18.5	18.2	17.9	17.7
95%	26.6	25.9	25.3	24.8	24.2	23.8	23.3	22.9	22.5	22.1	21.7	21.4	21.0	20.7	20.4	20.1	19.8

Dr. Kenneth J. Hellevang, PE
 NDSU Extension Service
 Fargo, ND 58105

Source: ASAE D245.4 Modified Henderson Equation

EDIBLE BEANS EQUILIBRIUM MOISTURE CONTENT

TEMPERATURE (°F)																	
	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
R.H.	MOISTURE CONTENT (% W.B.)																
5%	3.3	3.3	3.2	3.2	3.2	3.2	3.2	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.0	3.0	3.0
10%	4.7	4.7	4.7	4.6	4.6	4.6	4.6	4.6	4.5	4.5	4.5	4.5	4.4	4.4	4.4	4.4	4.3
15%	5.9	5.8	5.8	5.8	5.8	5.7	5.7	5.7	5.6	5.6	5.6	5.5	5.5	5.5	5.5	5.4	5.4
20%	6.9	6.8	6.8	6.8	6.7	6.7	6.7	6.6	6.6	6.6	6.5	6.5	6.5	6.4	6.4	6.4	6.3
25%	7.8	7.8	7.7	7.7	7.6	7.6	7.6	7.5	7.5	7.4	7.4	7.4	7.3	7.3	7.3	7.2	7.2
30%	8.7	8.6	8.6	8.5	8.5	8.4	8.4	8.4	8.3	8.3	8.2	8.2	8.2	8.1	8.1	8.0	8.0
35%	9.5	9.4	9.4	9.3	9.3	9.2	9.2	9.2	9.1	9.1	9.0	9.0	8.9	8.9	8.8	8.8	8.8
40%	10.3	10.2	10.2	10.1	10.1	10.0	10.0	9.9	9.9	9.8	9.8	9.7	9.7	9.7	9.6	9.6	9.5
45%	11.1	11.0	11.0	10.9	10.9	10.8	10.8	10.7	10.7	10.6	10.6	10.5	10.5	10.4	10.4	10.3	10.3
50%	11.9	11.8	11.8	11.7	11.7	11.6	11.5	11.5	11.4	11.4	11.3	11.3	11.2	11.2	11.1	11.1	11.0
55%	12.7	12.6	12.6	12.5	12.5	12.4	12.3	12.3	12.2	12.2	12.1	12.0	12.0	11.9	11.9	11.8	11.8
60%	13.5	13.5	13.4	13.3	13.3	13.2	13.1	13.1	13.0	13.0	12.9	12.8	12.8	12.7	12.7	12.6	12.6
65%	14.4	14.3	14.3	14.2	14.1	14.1	14.0	13.9	13.9	13.8	13.7	13.7	13.6	13.5	13.5	13.4	13.4
70%	15.3	15.3	15.2	15.1	15.0	15.0	14.9	14.8	14.8	14.7	14.6	14.6	14.5	14.4	14.4	14.3	14.2
75%	16.3	16.3	16.2	16.1	16.0	15.9	15.9	15.8	15.7	15.7	15.6	15.5	15.4	15.4	15.3	15.2	15.2
80%	17.5	17.4	17.3	17.2	17.1	17.0	17.0	16.9	16.8	16.7	16.7	16.6	16.5	16.4	16.4	16.3	16.2
85%	18.7	18.7	18.6	18.5	18.4	18.3	18.2	18.1	18.1	18.0	17.9	17.8	17.7	17.7	17.6	17.5	17.4
90%	20.4	20.2	20.2	20.1	20.0	19.9	19.8	19.7	19.6	19.5	19.5	19.4	19.3	19.2	19.1	19.1	19.0
95%	22.7	22.6	22.5	22.4	22.3	22.2	22.1	22.0	21.9	21.8	21.8	21.7	21.6	21.5	21.4	21.3	21.2

Dr. Kenneth J. Hellevang, PE
 NDSU Extension Service
 Fargo, ND 58105

Source: ASAE D245.4 Modified Henderson Equation

SOYBEAN EQUILIBRIUM MOISTURE CONTENT																	
TEMPERATURE (°F)																	
	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
R.H.	MOISTURE CONTENT (% W.B.)																
5%	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.0
10%	2.2	2.2	2.1	2.1	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.7
15%	3.1	3.1	3.0	3.0	2.9	2.9	2.8	2.8	2.8	2.7	2.7	2.6	2.6	2.6	2.5	2.5	2.5
20%	4.0	4.0	3.9	3.8	3.8	3.7	3.7	3.6	3.6	3.5	3.5	3.4	3.4	3.3	3.3	3.2	3.2
25%	4.9	4.8	4.8	4.7	4.6	4.5	4.5	4.4	4.3	4.3	4.2	4.2	4.1	4.0	4.0	3.9	3.9
30%	5.8	5.7	5.6	5.5	5.5	5.4	5.3	5.2	5.1	5.1	5.0	4.9	4.9	4.8	4.7	4.7	4.6
35%	6.7	6.6	6.5	6.4	6.3	6.2	6.1	6.0	5.9	5.9	5.8	5.7	5.6	5.6	5.5	5.4	5.3
40%	7.7	7.5	7.4	7.3	7.2	7.1	7.0	6.9	6.8	6.7	6.6	6.5	6.4	6.3	6.3	6.2	6.1
45%	8.6	8.5	8.4	8.2	8.1	8.0	7.9	7.8	7.6	7.5	7.4	7.3	7.2	7.1	7.1	7.0	6.9
50%	9.6	9.5	9.3	9.2	9.1	8.9	8.8	8.7	8.6	8.4	8.3	8.2	8.1	8.0	7.9	7.8	7.7
55%	10.7	10.5	10.4	10.2	10.1	9.9	9.8	9.6	9.5	9.4	9.3	9.1	9.0	8.9	8.7	8.7	8.6
60%	11.8	11.6	11.5	11.3	11.1	11.0	10.8	10.7	10.5	10.4	10.2	10.1	10.0	9.9	9.6	9.6	9.5
65%	13.1	12.9	12.7	12.5	12.3	12.1	11.9	11.8	11.6	11.5	11.3	11.2	11.0	10.9	10.6	10.6	10.5
70%	14.4	14.2	14.0	13.8	13.6	13.4	13.2	13.0	12.8	12.7	12.5	12.3	12.2	12.0	11.7	11.7	11.6
75%	15.9	15.6	15.4	15.2	15.0	14.8	14.6	14.4	14.2	14.0	13.8	13.7	13.5	13.3	13.0	13.0	12.9
80%	17.6	17.3	17.1	16.8	16.6	16.4	16.2	16.0	15.7	15.5	15.4	15.2	15.0	14.8	14.5	14.5	14.3
85%	19.6	19.3	19.1	18.8	18.6	18.3	18.1	17.8	17.6	17.4	17.2	17.0	16.8	16.6	16.2	16.2	16.0
90%	22.3	22.0	21.7	21.4	21.1	20.8	20.6	20.3	20.1	19.8	19.6	19.3	19.1	18.9	18.5	18.5	18.3
95%	26.2	25.9	25.5	25.2	24.9	24.6	24.3	24.0	23.7	23.5	23.2	23.0	22.7	22.5	22.0	22.0	21.7

Dr. Kenneth J. Hellevang, PE
 NDSU Extension Service
 Fargo, ND

Source: ASAE D245.4 Modified Henderson Equation

CONFECTIONERY SUNFLOWER EQUILIBRIUM MOISTURE CONTENT

TEMPERATURE (°F)

	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
R.H.	MOISTURE CONTENT (% W.B.)																
5%	2.8	2.7	2.6	2.6	2.5	2.4	2.4	2.3	2.3	2.2	2.2	2.1	2.1	2.0	2.0	2.0	1.9
10%	4.1	4.0	3.8	3.7	3.6	3.5	3.5	3.4	3.3	3.2	3.2	3.1	3.0	3.0	2.9	2.9	2.8
15%	5.1	5.0	4.8	4.7	4.6	4.5	4.3	4.2	4.2	4.1	4.0	3.9	3.8	3.8	3.7	3.6	3.6
20%	6.0	5.9	5.7	5.5	5.4	5.3	5.1	5.0	4.9	4.8	4.7	4.6	4.5	4.4	4.4	4.3	4.2
25%	6.9	6.7	6.5	6.3	6.1	6.0	5.8	5.7	5.6	5.5	5.4	5.3	5.2	5.1	5.0	4.9	4.8
30%	7.7	7.4	7.2	7.0	6.9	6.7	6.5	6.4	6.2	6.1	6.0	5.9	5.8	5.7	5.6	5.5	5.4
35%	8.4	8.2	7.9	7.7	7.5	7.4	7.2	7.0	6.9	6.7	6.6	6.5	6.4	6.2	6.1	6.0	5.9
40%	9.2	8.9	8.7	8.4	8.2	8.0	7.8	7.7	7.5	7.3	7.2	7.1	6.9	6.8	6.7	6.6	6.5
45%	9.9	9.6	9.4	9.1	8.9	8.7	8.5	8.3	8.1	7.9	7.8	7.6	7.5	7.4	7.2	7.1	7.0
50%	10.7	10.4	10.1	9.8	9.6	9.3	9.1	8.9	8.7	8.6	8.4	8.2	8.1	7.9	7.8	7.7	7.6
55%	11.4	11.1	10.8	10.5	10.2	10.0	9.8	9.6	9.4	9.2	9.0	8.8	8.7	8.5	8.4	8.2	8.1
60%	12.2	11.9	11.5	11.2	11.0	10.7	10.5	10.2	10.0	9.8	9.6	9.5	9.3	9.1	9.0	8.8	8.7
65%	13.0	12.7	12.3	12.0	11.7	11.4	11.2	10.9	10.7	10.5	10.3	10.1	9.9	9.8	9.6	9.5	9.3
70%	13.9	13.5	13.1	12.8	12.5	12.2	11.9	11.7	11.5	11.2	11.0	10.8	10.6	10.4	10.3	10.1	10.0
75%	14.8	14.4	14.0	13.7	13.4	13.1	12.8	12.5	12.3	12.0	11.8	11.6	11.4	11.2	11.0	10.8	10.7
80%	15.9	15.5	15.1	14.7	14.3	14.0	13.7	13.4	13.2	12.9	12.7	12.4	12.2	12.0	11.8	11.6	11.5
85%	17.1	16.7	16.2	15.8	15.5	15.1	14.8	14.5	14.2	14.0	13.7	13.5	13.2	13.0	12.8	12.6	12.4
90%	18.7	18.2	17.7	17.3	16.9	16.5	16.2	15.9	15.6	15.3	15.0	14.7	14.5	14.3	14.0	13.8	13.6
95%	21.0	20.4	19.9	19.5	19.0	18.6	18.2	17.9	17.5	17.2	16.9	16.6	16.4	16.1	15.8	15.6	15.4

Dr. Kenneth J. Hellevang, PE
 NDSU Extension Service
 Fargo, ND

Source: ASAE Paper 74-3534

OIL SUNFLOWER EQUILIBRIUM MOISTURE CONTENT

TEMPERATURE (°F)

	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
R.H.	MOISTURE CONTENT (% W.B.)																
5%	2.7	2.7	2.6	2.5	2.5	2.4	2.4	2.3	2.3	2.3	2.2	2.2	2.2	2.1	2.1	2.1	2.0
10%	3.7	3.6	3.5	3.5	3.4	3.3	3.2	3.2	3.1	3.1	3.0	3.0	2.9	2.9	2.8	2.8	2.8
15%	4.5	4.3	4.2	4.1	4.1	4.0	3.9	3.8	3.8	3.7	3.6	3.6	3.5	3.5	3.4	3.4	3.3
20%	5.1	5.0	4.8	4.7	4.6	4.5	4.5	4.4	4.3	4.2	4.2	4.1	4.0	4.0	3.9	3.9	3.8
25%	5.6	5.5	5.4	5.3	5.1	5.0	4.9	4.9	4.8	4.7	4.6	4.5	4.5	4.4	4.3	4.3	4.2
30%	6.2	6.0	5.9	5.7	5.6	5.5	5.4	5.3	5.2	5.1	5.0	5.0	4.9	4.8	4.8	4.7	4.6
35%	6.7	6.5	6.4	6.2	6.1	6.0	5.8	5.7	5.6	5.5	5.5	5.4	5.3	5.2	5.1	5.1	5.0
40%	7.1	7.0	6.8	6.7	6.5	6.4	6.3	6.2	6.1	6.0	5.9	5.8	5.7	5.6	5.5	5.4	5.4
45%	7.6	7.4	7.3	7.1	7.0	6.8	6.7	6.6	6.5	6.3	6.2	6.2	6.1	6.0	5.9	5.8	5.7
50%	8.1	7.9	7.7	7.5	7.4	7.2	7.1	7.0	6.9	6.7	6.6	6.5	6.4	6.3	6.3	6.2	6.1
55%	8.6	8.3	8.2	8.0	7.8	7.7	7.5	7.4	7.3	7.1	7.0	6.9	6.8	6.7	6.6	6.5	6.5
60%	9.0	8.8	8.6	8.4	8.3	8.1	8.0	7.8	7.7	7.6	7.4	7.3	7.2	7.1	7.0	6.9	6.8
65%	9.5	9.3	9.1	8.9	8.7	8.6	8.4	8.3	8.1	8.0	7.9	7.7	7.6	7.5	7.4	7.3	7.2
70%	10.1	9.8	9.6	9.4	9.2	9.0	8.9	8.7	8.6	8.4	8.3	8.2	8.1	7.9	7.8	7.7	7.6
75%	10.6	10.4	10.2	9.9	9.7	9.6	9.4	9.2	9.1	8.9	8.8	8.7	8.5	8.4	8.3	8.2	8.1
80%	11.3	11.0	10.8	10.5	10.3	10.1	10.0	9.8	9.6	9.5	9.3	9.2	9.0	8.9	8.8	8.7	8.6
85%	12.0	11.7	11.5	11.2	11.0	10.8	10.6	10.4	10.3	10.1	9.9	9.8	9.7	9.5	9.4	9.3	9.2
90%	12.9	12.6	12.4	12.1	11.9	11.7	11.5	11.3	11.1	10.9	10.7	10.6	10.4	10.3	10.1	10.0	9.9
95%	14.3	14.0	13.7	13.4	13.1	12.9	12.7	12.5	12.3	12.1	11.9	11.7	11.5	11.4	11.2	11.1	11.0

Dr. Kenneth J. Hellevang, PE
 NDSU Extension Service
 Fargo, ND

Source: ASAE Paper 74-3534

DURUM WHEAT EQUILIBRIUM MOISTURE CONTENT

TEMPERATURE (°F)

	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
R.H.	MOISTURE CONTENT (% W.B.)																
5%	4.5	4.4	4.4	4.3	4.2	4.2	4.1	4.0	4.0	3.9	3.9	3.8	3.8	3.7	3.7	3.6	3.6
10%	6.2	6.1	6.0	5.9	5.8	5.7	5.6	5.5	5.4	5.4	5.3	5.2	5.2	5.1	5.0	5.0	4.9
15%	7.4	7.3	7.2	7.0	6.9	6.8	6.7	6.6	6.5	6.4	6.4	6.3	6.2	6.1	6.1	6.0	5.9
20%	8.5	8.3	8.2	8.0	7.9	7.8	7.7	7.6	7.5	7.4	7.3	7.2	7.1	7.0	6.9	6.8	6.8
25%	9.4	9.2	9.1	8.9	8.8	8.7	8.5	8.4	8.3	8.2	8.1	8.0	7.9	7.8	7.7	7.6	7.5
30%	10.2	10.1	9.9	9.7	9.6	9.5	9.3	9.2	9.1	8.9	8.8	8.7	8.6	8.5	8.4	8.3	8.2
35%	11.1	10.9	10.7	10.5	10.4	10.2	10.1	9.9	9.8	9.7	9.5	9.4	9.3	9.2	9.1	9.0	8.9
40%	11.8	11.6	11.4	11.3	11.1	10.9	10.8	10.6	10.5	10.4	10.2	10.1	10.0	9.9	9.8	9.7	9.6
45%	12.6	12.4	12.2	12.0	11.8	11.6	11.5	11.3	11.2	11.0	10.9	10.8	10.6	10.5	10.4	10.3	10.2
50%	13.4	13.1	12.9	12.7	12.5	12.4	12.2	12.0	11.9	11.7	11.6	11.4	11.3	11.2	11.1	10.9	10.8
55%	14.1	13.9	13.7	13.5	13.3	13.1	12.9	12.7	12.5	12.4	12.2	12.1	12.0	11.8	11.7	11.6	11.5
60%	14.9	14.6	14.4	14.2	14.0	13.8	13.6	13.4	13.2	13.1	12.9	12.8	12.6	12.5	12.4	12.2	12.1
65%	15.7	15.4	15.2	15.0	14.7	14.5	14.3	14.2	14.0	13.8	13.6	13.5	13.3	13.2	13.0	12.9	12.8
70%	16.5	16.3	16.0	15.8	15.5	15.3	15.1	14.9	14.7	14.6	14.4	14.2	14.1	13.9	13.8	13.6	13.5
75%	17.4	17.1	16.9	16.6	16.4	16.2	16.0	15.7	15.6	15.4	15.2	15.0	14.8	14.7	14.5	14.4	14.2
80%	18.4	18.1	17.8	17.6	17.3	17.1	16.9	16.7	16.5	16.3	16.1	15.9	15.7	15.5	15.4	15.2	15.1
85%	19.6	19.2	19.0	18.7	18.4	18.2	17.9	17.7	17.5	17.3	17.1	16.9	16.7	16.6	16.4	16.2	16.1
90%	21.0	20.6	20.3	20.1	19.8	19.5	19.3	19.0	18.8	18.6	18.4	18.2	18.0	17.8	17.6	17.4	17.3
95%	23.0	22.7	22.3	22.0	21.7	21.5	21.2	20.9	20.7	20.5	20.2	20.0	19.8	19.6	19.4	19.2	19.0

Dr. Kenneth J. Hellevang, PE
 NDSU Extension Service
 Fargo, ND 58105

Source: ASAE D245.4 Modified Henderson Equation

HARD WHEAT EQUILIBRIUM MOISTURE CONTENT

TEMPERATURE (°F)																	
	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
R.H.	MOISTURE CONTENT (% W.B.)																
5%	5.0	4.9	4.8	4.7	4.6	4.5	4.5	4.4	4.3	4.2	4.2	4.1	4.1	4.0	3.9	3.9	3.8
10%	6.8	6.6	6.5	6.4	6.2	6.1	6.0	5.9	5.8	5.7	5.6	5.6	5.5	5.4	5.3	5.3	5.2
15%	8.1	7.9	7.7	7.6	7.4	7.3	7.2	7.1	6.9	6.8	6.7	6.6	6.5	6.5	6.4	6.3	6.2
20%	9.2	9.0	8.8	8.6	8.5	8.3	8.2	8.0	7.9	7.8	7.7	7.6	7.5	7.4	7.3	7.2	7.1
25%	10.1	9.9	9.7	9.5	9.4	9.2	9.0	8.9	8.7	8.6	8.5	8.4	8.3	8.1	8.0	7.9	7.8
30%	11.0	10.8	10.6	10.4	10.2	10.0	9.8	9.7	9.5	9.4	9.2	9.1	9.0	8.9	8.8	8.7	8.6
35%	11.9	11.6	11.4	11.2	11.0	10.8	10.6	10.4	10.3	10.1	10.0	9.8	9.7	9.6	9.4	9.3	9.2
40%	12.7	12.4	12.2	11.9	11.7	11.5	11.3	11.1	11.0	10.8	10.7	10.5	10.4	10.2	10.1	10.0	9.9
45%	13.4	13.2	12.9	12.7	12.4	12.2	12.0	11.8	11.7	11.5	11.3	11.2	11.0	10.9	10.7	10.6	10.5
50%	14.2	13.9	13.7	13.4	13.2	12.9	12.7	12.5	12.3	12.2	12.0	11.8	11.7	11.5	11.4	11.2	11.1
55%	15.0	14.7	14.4	14.1	13.9	13.7	13.4	13.2	13.0	12.8	12.7	12.5	12.3	12.2	12.0	11.9	11.7
60%	15.8	15.5	15.2	14.9	14.6	14.4	14.2	13.9	13.7	13.5	13.3	13.2	13.0	12.8	12.7	12.5	12.4
65%	16.6	16.3	15.9	15.7	15.4	15.1	14.9	14.7	14.4	14.2	14.0	13.9	13.7	13.5	13.3	13.2	13.0
70%	17.4	17.1	16.8	16.5	16.2	15.9	15.7	15.4	15.2	15.0	14.8	14.6	14.4	14.2	14.1	13.9	13.7
75%	18.3	18.0	17.6	17.3	17.0	16.8	16.5	16.3	16.0	15.8	15.6	15.4	15.2	15.0	14.8	14.6	14.5
80%	19.3	19.0	18.6	18.3	18.0	17.7	17.4	17.2	16.9	16.7	16.5	16.2	16.0	15.8	15.7	15.5	15.3
85%	20.5	20.1	19.7	19.4	19.1	18.8	18.5	18.2	17.9	17.7	17.5	17.2	17.0	16.8	16.6	16.4	16.3
90%	21.9	21.5	21.1	20.7	20.4	20.1	19.8	19.5	19.2	19.0	18.7	18.5	18.3	18.1	17.8	17.6	17.5
95%	23.9	23.5	23.1	22.7	22.3	22.0	21.7	21.4	21.1	20.8	20.5	20.3	20.0	19.8	19.6	19.4	19.2

Dr. Kenneth J. Hellevang, PE
 NDSU Extension Service
 Fargo, ND

Source: ASAE D245.4 Modified Henderson Equation

SOFT WHEAT EQUILIBRIUM MOISTURE CONTENT																	
TEMPERATURE (°F)																	
	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
R.H.	MOISTURE CONTENT (% W.B.)																
5%	5.1	5.0	4.9	4.8	4.7	4.7	4.6	4.5	4.5	4.4	4.4	4.3	4.3	4.2	4.2	4.1	4.1
10%	6.6	6.5	6.4	6.3	6.2	6.1	6.0	5.9	5.9	5.8	5.7	5.7	5.6	5.5	5.5	5.4	5.4
15%	7.7	7.6	7.5	7.4	7.3	7.2	7.1	7.0	6.9	6.8	6.7	6.6	6.6	6.5	6.4	6.3	6.3
20%	8.7	8.5	8.4	8.3	8.1	8.0	7.9	7.8	7.7	7.6	7.5	7.4	7.4	7.3	7.2	7.1	7.1
25%	9.5	9.3	9.2	9.0	8.9	8.8	8.7	8.6	8.4	8.3	8.2	8.2	8.1	8.0	7.9	7.8	7.7
30%	10.2	10.1	9.9	9.8	9.6	9.5	9.4	9.2	9.1	9.0	8.9	8.8	8.7	8.6	8.5	8.4	8.4
35%	10.9	10.8	10.6	10.4	10.3	10.1	10.0	9.9	9.8	9.6	9.5	9.4	9.3	9.2	9.1	9.0	8.9
40%	11.6	11.4	11.2	11.1	10.9	10.8	10.6	10.5	10.4	10.2	10.1	10.0	9.9	9.8	9.7	9.6	9.5
45%	12.2	12.0	11.9	11.7	11.5	11.4	11.2	11.1	10.9	10.8	10.7	10.6	10.5	10.3	10.2	10.1	10.0
50%	12.9	12.7	12.5	12.3	12.1	12.0	11.8	11.7	11.5	11.4	11.3	11.1	11.0	10.9	10.8	10.7	10.6
55%	13.5	13.3	13.1	12.9	12.7	12.6	12.4	12.2	12.1	12.0	11.8	11.7	11.6	11.4	11.3	11.2	11.1
60%	14.2	13.9	13.7	13.5	13.3	13.2	13.0	12.8	12.7	12.5	12.4	12.3	12.1	12.0	11.9	11.8	11.7
65%	14.8	14.6	14.4	14.2	14.0	13.8	13.6	13.4	13.3	13.1	13.0	12.8	12.7	12.6	12.4	12.3	12.2
70%	15.5	15.3	15.0	14.8	14.6	14.4	14.2	14.1	13.9	13.7	13.6	13.4	13.3	13.2	13.0	12.9	12.8
75%	16.2	16.0	15.8	15.5	15.3	15.1	14.9	14.8	14.6	14.4	14.3	14.1	14.0	13.8	13.7	13.6	13.4
80%	17.1	16.8	16.6	16.3	16.1	15.9	15.7	15.5	15.3	15.2	15.0	14.8	14.7	14.5	14.4	14.3	14.1
85%	18.0	17.7	17.5	17.2	17.0	16.8	16.6	16.4	16.2	16.0	15.8	15.7	15.5	15.3	15.2	15.1	14.9
90%	19.1	18.8	18.6	18.3	18.1	17.9	17.6	17.4	17.2	17.0	16.9	16.7	16.5	16.4	16.2	16.1	15.9
95%	20.8	20.5	20.2	19.9	19.7	19.4	19.2	19.0	18.8	18.5	18.4	18.2	18.0	17.8	17.6	17.5	17.3

Dr. Kenneth J. Hellevang, PE
 NDSU Extension Service
 Fargo, ND

Source: ASAE D245.4 Modified Henderson Equation