



RECOMMENDED* QUALITY TARGETS FOR HARD RED WINTER WHEAT

HWW Quality Targets Committee
Approved February, 2006

* "The purpose of Recommended Quality Targets (RQT) for Hard Red Winter Wheat (HRW) is to provide specific quality 'goals' for the breeding community, wheat producers, and marketing programs in order to assist and guide the decisions needed to maintain the consistency and end-use quality of the U.S. HRW market class. The RQT will be dynamic over time in direct response to the primary needs of the marketplace (domestic and foreign), and the needs of the U.S. industry to breed, produce and market wheats to meet market needs. The RQT should NOT be used as essential criteria for variety release decisions in breeding programs, or as marketing/grading standards for private companies or federal/state agencies. This **Statement of Purpose** must accompany all published forms of the RQT."
HWWQT Committee, 2006

Quality Parameter (End-Use: Pan Bread)	Recommended Target Value
<u>Wheat</u>	
Test Weight (lb/bu)	> 60
SKCS-Hardness Index (SK-HI)	60 – 80
SK-HI Standard Deviation	< 17.0
SKCS-Weight (SK-WT, mg)	> 30.0
SK-WT Standard Deviation	< 8.0
SKCS-Diameter (SK-SZ, mm)	> 2.40
SK-SZ Standard Deviation	< 0.40
Protein Content (% , 12% mb)	> 12.0
Ash Content (% , 12% mb)	< 1.60
Falling Number (sec)	> 300
Straight Grade Flour Yield (%)	> 68
<u>Flour</u>	
Flour Color L-Value (Minolta Colorimeter)	> 90
Gluten Index	> 95
Sedimentation Volume (cc)	> 40
<i>Farinograph:</i>	
Water Absorption (% , 14% mb)	62+
Peak Time (min)	4.00 – 8.00
Stability (min)	10.00-16.00
<i>Mixograph:</i>	
Water Absorption (% , 14% mb)	62+
Peak Time (min)	3.00 – 6.00
Mixing Tolerance (HWWQL Score, 0-6)	3.0
<i>Straight Dough Pup Method:</i>	
Water Absorption (% , 14% mb)	62+
Mix Time (min)	3.00 – 5.00
Loaf Volume (cc)	> 850
Crumb Score (HWWQL Score, 0-6)	> 3.0

CONTACT:
USDA/ARS Grain Marketing and Production Research Center
Hard Winter Wheat Quality Laboratory
1515 College Avenue, Manhattan, KS 66502-2796
VOICE: (785) 776-2751 FAX: (785) 537- 5534 EMAIL: brad.seabourn@ars.usda.gov