**MAKING BETTER VARIETY DECISIONS**

**COFT 1997**

**Collaborative On-Farm Tests of Winter Wheat Varieties**

**Objective**

**Compare on-farm performance of**

**RWA-resistant “Halt” to RWA-susceptible “TAM 107”**

**Trial Conditions**

..- Grower plants and harvests with own equipment

..- Long (1/4 mile), narrow (wider than header) strips

..- Varieties planted side-by-side

..- Grower receives 100# seed each variety

..- 18 tests in 9 counties (below) where RWA is common

**Cooperative Extension Agents Make It**

**Work**

..- Recruit volunteer cooperators.

..-Distribute seed and guidelines.

..- Visit tests fall, spring, summer.

..- Responsible for harvest.

..- See list of agents on next page.

**1996-97 Production Constraints**

..- Fall and spring drought

..- Widespread wheat mites

..-Wheat Streak Mosaic Virus

..-Russian wheat aphid

**Results**

..- Halt = TAM 107 when no RWA

..- Halt > TAM 107 with RWA present

Results of Collaborative On-Farm Testing of

Winter Wheat Varieties

Yield

#map County Halt TAM 107 bu/ac

1 SE Baca 24.4 25.8

2 NW Baca 22.1 23.0

3 SW Baca 14.5 12.2

4 SW Baca 24.2 17.7

5 NE Baca 62.2 56.3

6 NE Prowers 33.9 32.1

7 NC Prowers 50.9 39.2

**15**

**16**

**17**

**Weld**

**14**

**Adams**

**12**

**Arapahoe 11**

**10**

**13**

**Washington**

**Kit Carson**

**18**

**Cheyenne**

8 NE Kiowa 25.1 27.0

9 NE Cheyenne 33.9 34.4

10 NE Arapahoe I 27.4 24.3

11 NE Arapahoe II 22.6 21.6

12 SE Adams 15.3 15.8

13 NC Washington NE 38.5 39.3

14 SW Weld 40.1 28.6

15 NW Weld 34.3 38.4

16 NC Weld 24.5 21.1

17 NE Weld 27.1 29.6

18 C Kit Carson 52.1 54.8

|  |  |  |
| --- | --- | --- |
| Average Yields (bu/ac) | 31.8 | 30.1 |
| Average Test Wt (lb/bu) | 59.3 | 58.3 |

**9**

**8**

**Kiowa**

**6**

**7**

**Prowers**

**2 5**

**Baca 1**

**4**

**3**

**1997-1998 Collaborative On-Farm Tests**

The Colorado Wheat Producers who, for the good of the whole wheat community, donate the use of their land, labor, and machinery to make on-farm testing possible.

**The Cooperative Extension Agents MAKING ON-FARM TESTING WORK** Tim Macklin - Baca County

Dick Scott - Prowers County

**Ed Enderson**

**Mertens**

George Ellicott - Kiowa County Ron Meyer - Kit Carson County Kurt Jones - Lincoln County

**Bill Warren**

**Ed Richardson**

Bruce Bosley - Morgan County

**Joe Westoff Ken Remington**

Ron Jepson - Adams County

Jerry Alldredge - Weld County

**Bruce Converse**

**Joe Kalcevic**

**Kenny Pottorff**

**Ross Hansen**

**Don LeValley**

**Scott Smith**

**Rex Waugh**

Kurt Jones

**1998**

**Four Varieties**

**Halt**

**TAM 107**

**Prowers (Lamar R32)**

**Yumar (Yuma R21)**

**Burl Scherler**

**Fred Williams**

**John Stulp**

**David Heck**

**Randy Shaw**

**Bob Wood**

**Mike Whittler**

**Tim Hume**