

# High Plains - 2005 Wheat Variety Trials

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**Purpose:** To provide unbiased yield, quality, and pest rating data for wheat producers across the state. With this information, Texas wheat producers can make an educated decision about the most appropriate variety for their geographic region.

**Overview:** The Uniform Variety Trial is coordinated and implemented by numerous TCE and TAES faculty and staff from Amarillo, Dallas, Vernon, and College Station. Dr. David Worrall with Agri-Pro Wheat is also a key collaborator and contributed data from some locations. We also appreciate the cooperation from numerous County Extension Agents and farmers. The HRW wheat trial was harvested at 12 locations (6 irrigated and 6 dryland) in the High Plains. Below is a table describing the “issues” that affected the 2004-05 wheat crop at each location.

**Funding:** The State Uniform Variety Trial is funded by the Texas Wheat Producers Board.

| <b>Location</b>                   | <b>Issues</b>   |
|-----------------------------------|---|
| Bushland – Irrigated              | High Stripe rust pressure and hail damage                                     |
| Canadian – Dryland                | High Stripe rust and moderate Leaf rust                                       |
| Claude – Dryland                  | Very high Stripe rust pressure  |
| Clovis – Dryland                  | High Stripe rust pressure, received late fungicide application. Some lodging. |
| Clovis - Irrigated                | High Stripe rust pressure, received late fungicide application. Some lodging. |
| Dalhart – Irrigated               | Low stripe rust and received a fungicide application                          |
| Dimmit – Irrigated                | Hail damage and high Stripe rust pressure, received a fungicide application   |
| Etter – Dryland                   | High Stripe rust pressure   |
| Etter - Irrigated                 | High Stripe rust pressure and erratic stand                                   |
| Hereford – Dryland                | High Stripe rust pressure   |
| Perryton (Agri-Pro) – Dryland     | High Stripe rust pressure, received late fungicide application                |
| Perryton – (Agri-Pro) - Irrigated | High Stripe rust pressure, received late fungicide application                |

## Dryland - High Plains Wheat Variety Trials 2004-05

| Variety            | Average      | Hereford  | Clovis    | Etter     | Perryton  | Canadian  | Claude    | Avg<br>T.W. |
|--------------------|--------------|-----------|-----------|-----------|-----------|-----------|-----------|-------------|
|                    | Yield (Bu/A) |           |           |           |           |           |           |             |
| Agri-Pro 4342 exp. | <b>52.7</b>  | <b>40</b> | <b>58</b> | 47        | <b>54</b> | <b>69</b> | <b>48</b> | 61.1        |
| Overley            | <b>51.3</b>  | <b>39</b> | <b>61</b> | <b>50</b> | 46        | <b>69</b> | 42        | 60.7        |
| Jagger             | <b>50.6</b>  | 35        | <b>59</b> | <b>52</b> | <b>58</b> | 55        | <b>45</b> | 59.3        |
| TAM 111            | <b>50.1</b>  | <b>44</b> | <b>56</b> | 34        | <b>57</b> | <b>64</b> | <b>47</b> | 61.7        |
| T 81               | <b>49.8</b>  | <b>37</b> | <b>59</b> | <b>54</b> | 50        | <b>55</b> | <b>44</b> | 60.3        |
| TX00V1117 exp.     | <b>48.6</b>  | <b>37</b> | <b>64</b> | <b>59</b> | 50        | 43        | 39        | 61.3        |
| Cutter             | <b>48.4</b>  | <b>41</b> | 52        | 46        | <b>51</b> | <b>56</b> | <b>44</b> | 60.6        |
| Fannin             | <b>46.9</b>  | <b>39</b> | 52        | 34        | <b>50</b> | <b>60</b> | <b>46</b> | 61.1        |
| Deliver            | 45.5         | 33        | 49        | 49        | 46        | <b>56</b> | 40        | 61.4        |
| TX00D1390 exp.     | 44.9         | 33        | 53        | 46        | <b>51</b> | 49        | 37        | 60.4        |
| Endurance          | 44.9         | 29        | 55        | <b>54</b> | <b>51</b> | 45        | 36        | 60.6        |
| TX01D3232 exp.     | 44.6         | 29        | <b>58</b> | 49        | 46        | 45        | 40        | 57.9        |
| Jagelene           | 44.1         | 36        | 45        | 36        | 49        | <b>57</b> | 41        | 62.3        |
| Ogallala           | 43.0         | <b>37</b> | 51        | 37        | 43        | 51        | 39        | 61.2        |
| Dumas              | 42.3         | 31        | 56        | 47        | <b>51</b> | 35        | 35        | 61.2        |
| TAM 303            | 41.9         | 34        | 53        | 42        | 50        | 38        | 35        | 58.1        |
| HG-9               | 41.6         | 31        | 46        | 42        | 44        | 44        | <b>43</b> | 61.3        |
| Coronado           | 41.3         | 25        | 51        | 50        | 50        | 35        | 38        | 59.8        |
| TAM 105            | 41.1         | 27        | 52        | <b>54</b> | 45        | 38        | 30        | 59.9        |
| Abilene Ag         | 41.0         | 29        | 47        | 37        | 44*       | 47        | <b>43</b> | 61.0        |
| Scout 66           | 40.8         | 33        | 48        | 42        | 46        | 38        | 38        | 60.8        |
| Thunderbolt        | 40.7         | 29        | 43        | 44        | 48        | 43        | 37        | 62.1        |
| Sturdy 2K          | 40.2         | 36        | 48        | 32        | 49        | 42        | 33        | 59.0        |
| 2145               | 39.9         | 29        | 52        | 36        | 41        | 47        | 34        | 60.2        |
| TAM 112            | 39.8         | 29        | <b>60</b> | 43        | 50        | 27        | 30        | 61.3        |
| Stanton            | 38.9         | 32        | 49        | 40        | 46        | 35        | 31        | 60.8        |
| Cisco              | 38.6         | 25        | 50        | 45        | 44        | 37        | 31        | 60.1        |
| OK 101             | 38.6         | 26        | 51        | 46        | 45        | 35        | 28        | 60.4        |
| AP502 CL           | 38.1         | 26        | 54        | 48        | 49*       | 25        | 27        | 58.0        |
| Lockett            | 38.0         | 29        | 48        | 42        | 45        | 31        | 33        | 59.5        |
| TAM 110            | 37.7         | 25        | 48        | <b>52</b> | 46        | 28        | 28        | 58.8        |
| Longhorn           | 37.4         | 22        | 50        | 47        | 49        | 28        | 28        | 60.5        |
| TAM 110 CL         | 37.3         | 22        | 49        | 49        | 45        | 30        | 28        | 59.0        |
| TAM 107            | 37.0         | 19        | 54        | <b>54</b> | 39        | 30        | 26        | 58.6        |
| 2174               | 36.5         | 25        | 46        | 41        | 46        | 31        | 31        | 60.0        |
| TAM 202            | 36.1         | 20        | 51        | 49        | 47        | 24        | 26        | 59.3        |
| Platte             | 36.0         | 24        | 46        | 38*       | 49        | 28        | 31*       | na          |
| Trego              | 35.3         | 31        | 50        | 32        | 45        | 27        | 27        | 61.1        |
| OK 102             | 34.0         | 22        | 47        | 36        | 45        | 30        | 25        | 61.0        |
| TAM W 101          | 33.5         | 23        | 41        | 38        | 37        | 32        | 30        | 60.7        |
| Grand Mean         | 41.8         | 30.4      | 51.5      | 44.4      | 47.6      | 41.4      | 35.4      | 60.3        |
| CV                 |              | 13.6      | 12.3      | 18.4      | 6.9       | 8.1       | 8.1       |             |
| LSD (5%)           |              | 6.7       | 10.3      | 8.3       | 5.4       | 5.4       | 4.0       |             |

## Irrigated - High Plains Wheat Variety Trials – 2004-05

| Variety            | Average      | Dalhart    | Perryton  | Dimmitt   | Bushland  | Etter     | Clovis    | Avg<br>TW |
|--------------------|--------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    | Yield (Bu/A) |            |           |           |           |           |           |           |
| TAM 111            | <b>86.2</b>  | <b>120</b> | <b>95</b> | <b>82</b> | <b>80</b> | <b>77</b> | 64        | 61.9      |
| T 81               | <b>78.0</b>  | <b>110</b> | <b>84</b> | 58        | <b>69</b> | <b>74</b> | 73        | 61.5      |
| TX01D3232 exp.     | <b>77.7</b>  | 103        | <b>81</b> | <b>65</b> | 41        | <b>81</b> | <b>96</b> | 59.8      |
| Agri-Pro 4342 exp. | <b>76.7</b>  | <b>107</b> | <b>85</b> | 59        | <b>52</b> | <b>84</b> | 73        | 62.9      |
| Overley            | <b>74.3</b>  | <b>111</b> | 75        | <b>63</b> | 47        | <b>74</b> | 75        | 61.1      |
| Jagelene           | <b>74.2</b>  | 106        | <b>86</b> | <b>64</b> | <b>54</b> | 62        | 73        | 61.4      |
| Jagger             | <b>73.0</b>  | 107        | <b>85</b> | 57        | <b>60</b> | <b>78</b> | 52        | 59.7      |
| TAM 105            | <b>72.4</b>  | 105        | 69        | <b>62</b> | 44        | 72        | <b>83</b> | 59.9      |
| TX00V1117 exp.     | <b>72.3</b>  | <b>110</b> | 80        | <b>66</b> | 43        | 71        | 64        | 61.2      |
| Cutter             | <b>72.3</b>  | <b>113</b> | 75        | 58        | <b>57</b> | <b>77</b> | 53        | 61.9      |
| TX00D1390 exp.     | 71.4         | 97         | <b>86</b> | <b>70</b> | 44        | 72        | 61        | 60.3      |
| Endurance          | 70.3         | <b>108</b> | 71        | 55        | 43        | 67        | 78        | 58.8      |
| Dumas              | 70.2         | <b>117</b> | 76        | 55        | 34        | 63        | 77        | 59.9      |
| Ogallala           | 69.7         | 103        | <b>81</b> | 57        | 41        | 68        | 68        | 62.4      |
| TAM 303            | 68.9         | 103        | 78        | 52        | 43        | <b>75</b> | 64        | 58.9      |
| Deliver            | 68.6         | 105        | 75        | 57        | <b>54</b> | 60        | 61        | 61.7      |
| OK 101             | 67.8         | 97         | 67        | 57        | 39        | 66        | <b>81</b> | 59.5      |
| Cisco              | 66.8         | <b>109</b> | 66        | 54        | 38        | 65        | 69        | 58.2      |
| Thunderbolt        | 66.6         | 105        | 67        | 58        | 34        | 62        | 74        | 61.6      |
| 2145               | 66.6         | 97         | 72        | 60        | 33        | 59        | <b>80</b> | 60.0      |
| TAM 110 CL         | 66.1         | 95         | 64        | 59        | 35        | 63        | <b>81</b> | 57.9      |
| OK 102             | 66.0         | 100        | 65        | 57        | 33        | 57        | <b>84</b> | 59.3      |
| Platte             | 65.6         | 93         | 68        | 42        | 43*       | 69*       | <b>80</b> | na        |
| TAM 110            | 65.5         | 105        | 61        | 56        | 36        | 67        | 68        | 57.6      |
| TAM 107            | 63.8         | 103        | 57        | 49        | 30        | 68        | 76        | 57.8      |
| 2174               | 63.6         | 104        | 63        | 49        | 30        | 55        | <b>80</b> | 59.6      |
| Longhorn           | 62.5         | 88         | 61        | 60        | 26        | 69        | 70        | 60.8      |
| Coronado           | 62.4         | 102        | 68        | 44        | 27        | 57        | 78        | 58.3      |
| AP502 CL           | 61.4         | 100        | 61*       | 57        | 31        | 50        | 69        | 56.9      |
| Fannin             | 60.6         | 93         | 62        | 61        | <b>55</b> | 49        | 44        | 61.5      |
| Stanton            | 60.2         | 103        | 62        | 49        | 26        | 54        | 66        | 59.9      |
| Trego              | 59.0         | 96         | 63        | <b>62</b> | 23        | 40        | 70        | 59.4      |
| TAM 202            | 58.5         | 97         | 59        | 48        | 24        | 63        | 60        | 58.8      |
| TAM W 101          | 58.0         | 89         | 63        | 47        | 32        | 57        | 61        | 59.6      |
| Abilene Ag         | 57.9         | 98         | 59*       | 43        | 37        | 68        | 44        | 61.4      |
| Scout 66           | 57.4         | 81         | 70        | 48        | 34        | 62        | 49        | 61.1      |
| Sturdy 2K          | 57.0         | 104        | 42        | 58        | 32        | 48        | 60        | 59.8      |
| TAM 112            | 56.7         | 96         | 64        | 58        | 28        | 53        | 41        | 59.2      |
| Lockett            | 56.0         | 87         | 60        | 50        | 34        | 58        | 48        | 59.0      |
| HG-9               | 55.4         | 87         | 58        | 44        | 36        | 60        | 47        | 61.5      |
| Grand Mean         | 66.4         | 101.3      | 69.6      | 56.2      | 39.9      | 64.4      | 67.3      | 60.0      |
| CV                 |              | 6.0        | 7.2       | 12.4      | 8.2       | 12.7      | 15.5      |           |
| LSD (5%)           |              | 9.8        | 8.3       | 11.3      | 5.3       | 11.5      | 17.0      |           |

# Rolling Plains – 2004-05

## Wheat Variety Trials

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**Purpose:** To provide unbiased yield, quality, and pest rating data for wheat producers across the state. With this information, Texas wheat producers can make an educated decision about the most appropriate variety for their geographic region.

**Overview:** The Uniform Variety Trial is coordinated and implemented by numerous TCE and TAES faculty and staff from Amarillo, Vernon, and College Station. State-wide the HRW wheat trial was planted in 24 locations with 22 being harvested. In the Rolling Plains, six locations were planted and harvested for yields. Dr. David Worrall with Agri-Pro Wheat is also a key collaborator and contributed data from the multiple locations. We also appreciate the cooperation from numerous County Extension Agents and farmers. The HRW wheat trial was planted at 6 locations across within the Rolling Plains. Below is a table describing the “issues” that affected the 2004-05 wheat crop at each location.

**Funding:** The State Uniform Variety Trial is funded by the Texas Wheat Producers Board.

| <b>Location</b>                 | <b>Issues</b>   |
|---------------------------------|---|
| Abilene                         | December planted, wet winter, dry spring, and minimal spring disease pressure |
| Chillicothe #1                  | Wet fall and winter followed by a dry spring, stripe rust                     |
| Chillicothe #2 – Hardeman Grain | Wet fall and winter followed by a dry spring                                  |
| Knox County - Agri-Pro location | Wet fall and winter followed by a dry spring                                  |
| Lockett – Agri-Pro location     | Dry spring and stripe rust  |
| Vernon                          | Dry spring and jointed goatgrass pressure                                     |

## Rolling Plains Wheat Variety Trials 2004-05

| Variety                   | Average                  | Chillicothe#1 | Chillicothe #2 | Vernon | Abilene | Knox | Lockett | Average<br>T.W. |
|---------------------------|--------------------------|---------------|----------------|--------|---------|------|---------|-----------------|
|                           | ----- Yield (Bu/A) ----- |               |                |        |         |      |         |                 |
| *TX00D1390                | 51.5                     | 51            | 36             | 45     | 58      | 54   | 62      | 62.3            |
| *Agri-Pro 4342            | 51.0                     | 53            | 34             | 39     | 49      | 61   | 67      | 63.4            |
| Overley                   | 50.9                     | 58            | 42             | 46     | 45      | 63   | 67      | 63.0            |
| *TX01D3232                | 50.3                     | 51            | 34             | 57     | 59      | x    | x       | 61.7            |
| Jagelene                  | 49.1                     | 54            | 41             | 41     | 48      | 55   | 61      | 64.1            |
| *TX01M5009                | 48.6                     | 47            | 30             | 26     | 56      | 58   | 74      | 61.0            |
| 2145                      | 48.3                     | 43            | 35             | 37     | 48      | 46   | 71      | 63.5            |
| Jagger                    | 47.8                     | 49            | 42             | 43     | 52      | 47   | 66      | 62.2            |
| Cutter                    | 47.5                     | 53            | 33             | 49     | 47      | 52   | 58      | 62.7            |
| TAM 111                   | 46.8                     | 54            | 33             | 39     | 50      | 63   | 60      | 62.8            |
| Endurance                 | 46.4                     | 47            | 40             | 37     | 40      | 47   | 67      | 62.8            |
| Fannin                    | 46.0                     | 46            | 30             | 34     | 44      | 58   | 58      | 62.3            |
| Sturdy 2K                 | 45.6                     | 46            | 31             | 38     | 36      | 48   | 72      | 62.5            |
| Ogallala                  | 45.3                     | 52            | 33             | 44     | 44      | 55   | 56      | 63.6            |
| TAM 303                   | 44.5                     | 43            | 33             | 34     | 46      | 50   | 61      | 61.7            |
| Deliver                   | 43.6                     | 42            | 33             | 37     | 44      | 46   | 58      | 63.1            |
| Dumas                     | 42.6                     | 41            | 35             | 39     | 29      | 56   | 52      | 63.3            |
| TAM 112                   | 40.5                     | 42            | 31             | 38     | 45      | 43   | 57      | 62.7            |
| Thunderbolt               | 40.4                     | 47            | 42             | 32     | 42      | 55   | 49      | 63.2            |
| Coronado                  | 39.5                     | 38            | 34             | 28     | 47      | 41   | 48      | 61.9            |
| Abilene Ag                | 39.3                     | 51            | 25             | 44     | 35      | 40   | 52      | 61.3            |
| Cisco                     | 39.2                     | 40            | 30             | 33     | 40      | 39   | 53      | 62.1            |
| *TX00V1117                | 38.8                     | 60            | 21             | 42     | 30      | 35   | 54      | 58.4            |
| HG-9                      | 38.2                     | 55            | 21             | 40     | 41      | 41   | 43      | 61.2            |
| TAM 110 CL                | 38.1                     | 38            | 41             | 37     | 37      | 43   | 52      | 62.0            |
| AP502 CL                  | 38.1                     | 36            | 39             | 40     | 37      | --   | --      | 60.3            |
| Trego                     | 38.1                     | 31            | 21             | 35     | 50      | 38   | 59      | 63.3            |
| OK 101                    | 36.1                     | 35            | 32             | 34     | 34      | 34   | 50      | 63.2            |
| TAM 202                   | 34.9                     | 37            | 36             | 30     | 38      | 37   | 54      | 62.0            |
| Stanton                   | 34.6                     | 36            | 23             | 36     | 42      | 38   | 48      | 62.1            |
| TAM 105                   | 34.1                     | 43            | 32             | 29     | 32      | 35   | 53      | 61.1            |
| TAM 110                   | 34.0                     | 40            | 34             | 20     | 35      | 36   | 52      | 61.3            |
| Lockett                   | 33.9                     | 39            | 27             | 40     | 29      | 38   | 45      | 61.7            |
| OK 102                    | 33.8                     | 32            | 23             | 26     | 27      | 33   | 59      | 63.1            |
| TAM W 101                 | 33.4                     | 31            | 30             | 31     | 35      | 36   | 51      | 62.1            |
| Longhorn                  | 33.0                     | 41            | 21             | 28     | 28      | 39   | 49      | 61.2            |
| TAM 107                   | 32.3                     | 34            | 30             | 28     | 32      | 33   | 50      | 61.5            |
| 2174                      | 35.0                     | 27            | 21             | 39     | --      | 37   | 54      | 62.6            |
| Weathermaster 135         | 38.2                     | 53            | 27             | 35     | --      | --   | --      | 61.7            |
| Wintex                    | 36.9                     | 49            | 21             | 40     | --      | --   | --      | 60.1            |
| Neosho                    | 44.6                     | --            | --             | --     | --      | 43.5 | 58.7    |                 |
| **2145/Coronado/Fannin    | 53.7                     | --            | --             | --     | 48      | 50.8 | 64.9    | 62.6            |
| **Fannin/Cutter/Sturdy 2K | 54.3                     | --            | --             | --     | 47      | 55   | 66      | 61.7            |
| **Tam111/Cutter/Sturdy 2K | 51.9                     | *             | *              | *      | 53      | 48.7 | 64.8    | 60.1            |
| Grand Mean                |                          | 44.09         | 31.49          | 36.80  |         | 46.7 | 58.1    |                 |
| CV                        |                          | 10.70         | 14.40          | 23.04  |         | 12.3 | 10.3    |                 |
| LSD (5%)                  |                          | 7.67          | 7.37           | 11.89  |         | 9.4  | 9.8     |                 |

\* Experimental wheat breeding lines.

\*\* Equal mixture of three varieties.

# Blacklands – 2004-05

## Wheat Variety Trials

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**Purpose:** To provide unbiased yield, quality, and pest rating data for wheat producers across the state. With this information, Texas wheat producers can make an educated decision about the most appropriate variety for their geographic region.

**Overview:** This Uniform Variety Trial evaluated both Hard and Soft wheat varieties within the same trial. This research is coordinated and implemented by numerous TCE and TAES faculty and staff from Amarillo, Dallas, College Station, and Commerce. We greatly appreciate the cooperation of Bob Beakley at the Ellis County location. We also appreciate the cooperation from numerous County Extension and IPM Agents. The HRW and SRW wheat trial was planted and harvested at 3 locations within the Blacklands, including Prosper, Bardwell, and McGregor. Below is a table describing the “issues” that affected the 2004-05 wheat crop at each location.

**HRWW vs. SRWW** variety comparison in Northeast, Tx, near Royse City. This research trial was conducted by Jim Swart and Don Reid at TAMU-Commerce.

**Funding:** The State Uniform Variety Trial is funded by the Texas Wheat Producers Board.

| Location     | Issues   |
|--------------|--|
| Ellis county | Leaf rust, and dry spring                                  |
| McGregor     | Leaf rust and stripe rust, and dry spring.                 |
| Prosper      | Stripe rust and leaf rust, dry spring                      |
| Royse City   | Stripe rust and leaf rust, dry spring and some bird damage |



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## Hard Red Winter Wheat Trial 2004-05

| Variety        | Source         | Average | Ellis | Prosper | McGregor |
|----------------|----------------|---------|-------|---------|----------|
|                |                | -----   |       | Bu/A    | -----    |
| *TX01M5009     | TAMU           | 66.5    | 59    | 76      | 65       |
| Fannin         | Agri-Pro       | 64.7    | 65    | 69      | 60       |
| *TX01D3232     | TAMU           | 64.3    | 66    | 64      | 63       |
| *TX00D1390     | TAMU           | 60.2    | 51    | 60      | 69       |
| Endurance      | OSU            | 58.5    | 59    | 66      | 50       |
| *TX00V1117     | TAMU           | 58.3    | 67    | 55      | 53       |
| *Agri-Pro 4342 | Agri-Pro       | 58.1    | 52    | 76      | 46       |
| Deliver        | OSU            | 57.4    | 57    | 67      | 48       |
| TAM 111        | TAMU           | 56.9    | 54    | 66      | 51       |
| Sturdy 2K      | TAMU           | 56.7    | 55    | 63      | 53       |
| TAM 303        | TAMU           | 56.5    | 52    | 60      | 58       |
| Overley        | KSU            | 56.1    | 48    | 61      | 59       |
| Coronado       | Agri-Pro       | 55.5    | 56    | 63      | 48       |
| Ogallala       | Agri-Pro       | 55.2    | 52    | 61      | 52       |
| Abilene Ag Exp | Abilene Ag     | 50.4    | 51    | 60      | 40       |
| Thunderbolt    | Agri-Pro       | 49.3    | 44    | 57      | 46       |
| HG-9           | Hardeman Grain | 47.3    | 49    | 53      | 41       |
| Cutter         | Agri-Pro       | 44.5    | 35    | 60      | 38       |
| Stanton        | KSU            | 44.5    | 41    | 54      | 39       |
| Cisco          | Goertzen       | 44.3    | 44    | 43      | 46       |
| TAM 112        | TAMU           | 44.3    | 39    | 46      | 48       |
| Longhorn       | Agri-Pro       | 43.5    | 45    | 52      | 33       |
| 2145           | KSU            | 42.9    | 42    | 45      | 42       |
| Dumas          | Agri-Pro       | 42.7    | 51    | 39      | 38       |
| Trego          | KSU            | 41.3    | 36    | 46      | 42       |
| TAM W 101      | TAMU           | 41.1    | 36    | 47      | 40       |
| OK 101         | OSU            | 40.8    | 45    | 44      | 34       |
| Jagelene       | Agri-Pro       | 40.1    | 31    | 50      | 39       |
| Jagger         | KSU            | 39.6    | 37    | 45      | 36       |
| TAM 110 CL     | TAMU           | 39.2    | 33    | 49      | 35       |
| TAM 202        | TAMU           | 38.9    | 34    | 47      | 36       |
| TAM 110        | TAMU           | 38.8    | 32    | 43      | 41       |
| OK 102         | OSU            | 38.5    | 42    | 39      | 34       |
| TAM 105        | TAMU           | 38.5    | 42    | 38      | 36       |
| AP502 CL       | Agri-Pro       | 37.5    | 30    | 41      | 41       |
| TAM 107        | TAMU           | 34.9    | 29    | 42      | 34       |
| Lockett        | TAMU           | 30.3    | 20    | 39      | 32       |
| Grand Mean     |                | 48.1    | 45.5  | 53.7    | 45.1     |
| CV             |                |         | 8.64  | 10.68   | 12.28    |
| LSD (5%)       |                |         | 7.11  | 7.45    | 9.69     |

\* Experimental wheat breeding lines

## Soft Red Winter Wheat Trial 2004-05

| Variety        | Source             | Average          | Ellis | Prosper | McGregor | Royse City |
|----------------|--------------------|------------------|-------|---------|----------|------------|
|                |                    | ----- Bu/A ----- |       |         |          |            |
| *APW 742       | Agri-Pro           | 76.6             | 74    | 73      | 70       | 90         |
| LA 481         | LSU                | 76.5             | 84    | 60      | 69       | 94         |
| Pioneer P25R47 | Pioneer            | 75.5             | 77    | 75      | 60       | 90         |
| *UGA 2E26      | Univ. GA           | 75.2             | 69    | 73      | 74       | 85         |
| *TVX83W479     | Terrell            | 73.5             | 68    | 72      | 68       | 86         |
| LA 9560        | LSU                | 71.5             | 73    | 60      | 64       | 89         |
| *UGA 2E31      | Univ. GA           | 70.5             | 57    | 74      | 67       | 84         |
| USG 3209       | Uni-South Genetics | 69.7             | 63    | 70      | 61       | 85         |
| Panola         | Agri-Pro           | 69.5             | 64    | 78      | 55       | 82         |
| Crawford       | Agri-Pro           | 69.0             | 64    | 73      | 60       | 80         |
| TV 8466        | Terrell            | 67.9             | 65    | 62      | 66       | 79         |
| DK 7710        | Delta King         | 66.7             | 58    | 78      | 50       | 80         |
| Beretta        | Agri-Pro           | 66.5             | 72    | 63      | 62       | 69         |
| DK 1551W       | Delta King         | 65.6             | 57    | 67      | 62       | 76         |
| DK 9410        | Delta King         | 63.7             | 56    | 70      | 52       | 77         |
| Progeny 166    | Progeny            | 62.2             | 56    | 76      | 42       | 75         |
| TV 8502        | Terrell            | 62.1             | 57    | 73      | 38       | 81         |
| Progeny 185    | Progeny            | 62.0             | 50    | 65      | 61       | 71         |
| HBK 3266       | Hornbeck           | 61.8             | 53    | 63      | 60       | 71         |
| TV 8565        | Terrell            | 61.7             | 54    | 72      | 46       | 74         |
| DK 7900        | Delta King         | 61.6             | 56    | 66      | 47       | 76         |
| Natchez        | Agri-Pro           | 61.5             | 56    | 66      | 52       | 72         |
| Progeny 133    | Progeny            | 61.3             | 55    | 69      | 46       | 75         |
| TV 8450        | Terrell            | 60.4             | 54    | 69      | 47       | 72         |
| DK 7830        | Delta King         | 60.1             | 56    | 67      | 45       | 73         |
| Progeny 110    | Progeny            | 59.2             | 56    | 66      | 49       | 66         |
| Mason          | Agri-Pro           | 59.1             | 50    | 61      | 50       | 75         |
| Progeny 145    | Progeny            | 58.6             | 53    | 71      | 40       | 70         |
| Pioneer P25R37 | Pioneer            | 57.4             | 54    | 62      | 43       | 71         |
| Progeny 156    | Progeny            | 56.3             | 55    | 62      | 41       | 67         |
| NK Coker 9295  | Syngenta           | 53.0             | 46    | 56      | 56       | 54         |
| NK *B980582    | Syngenta           | 51.9             | 51    | 50      | 46       | 61         |
| USG 3592       | Uni-South Genetics | 51.0             | 39    | 49      | 54       | 62         |
| NK Coker 9375  | Syngenta           | 50.9             | 42    | 57      | 40       | 64         |
| NK Coker 9663  | Syngenta           | 49.2             | 42    | 45      | 49       | 61         |
| *TVX84W451     | Terrell            | 43.9             | 37    | 43      | 44       | 51         |
| Progeny 155    | Progeny            | 41.5             | 38    | 49      | 30       | 49         |
| Progeny 125    | Progeny            | 35.2             | 27    | 34      | 36       | 44         |
| Grand Mean     |                    |                  | 56    | 64      | 62       | 73         |
| CV             |                    |                  |       | 8.64    | 10.68    | 12.28      |
| LSD (5%)       |                    |                  |       | 7.11    | 7.45     | 9.69       |

\* Experimental wheat breeding lines



**2004-2005 Variety Trial  
SRWW vs. HRWW  
Jim Swart and Don Reid**

**Royse City, TX**

**Royse City, Yield Trial**

| Variety                     | Replication |      |      |      |      |       | Average<br>Bu/A |
|-----------------------------|-------------|------|------|------|------|-------|-----------------|
|                             | 1           | 2    | 3    | 4    | 5    | 6     |                 |
| <b>Pioneer 25R47 (S)</b>    | 71.4        | 61.8 | 94.3 | 94.1 | 88.8 | 102.7 | 85.5a           |
| <b>Pioneer 25R57 (S)</b>    | 70.0        | 72.9 | 82.9 | 68.9 | 75.0 | 80.3  | 75.0ab          |
| <b>Agripro Natchez (S)</b>  | 74.3        | 57.4 | 66.3 | 84.2 | 79.3 | 84.1  | 74.3ab          |
| <b>Overly (H)</b>           | 44.3        | 76.6 | 70.9 | 86.2 | 77.2 | 74.7  | 71.7bc          |
| <b>Agripro Crawford (S)</b> | 68.2        | 57.7 | 77.0 | 57.2 | 79.5 | 69.4  | 68.2bcd         |
| <b>Pioneer 25R37 (S)</b>    | 71.6        | 57.3 | 75.6 | 71.9 | 65.5 | 64.4  | 67.7bcd         |
| <b>Agripro Ogallala (H)</b> | 57.6        | 71.1 | 61.6 | 74.9 | 58.8 | 75.7  | 66.6bcd         |
| <b>Agripro Fannin (H)</b>   | 51.2        | 60.9 | 62.5 | 75.0 | 79.4 | 65.2  | 65.7bcd         |
| <b>Coker 9375 (S)</b>       | 59.4        | 58.4 | 64.3 | 54.2 | 55.9 | 64.0  | 59.4cd          |
| <b>2145 (H)</b>             | 48.1        | 58.0 | 60.7 | 54.6 | 60.3 | 64.8  | 57.8cde         |
| <b>Agripro Jagalene (H)</b> | 36.5        | 52.6 | 65.1 | 55.1 | 58.9 | 53.7  | 53.7de          |
| <b>Coker 9295 (S)</b>       | 51.9        | 35.9 | 54.4 | 51.2 | 55.1 | 63.0  | 51.9e           |

Mean Separation: Newman Keuls Multiple Comparison Test @ 5%

# South Texas – 2005

## Uniform Wheat Variety Trials

**Gaylon Morgan, TCE Small Grains Specialist – College Station**

**Giovanni Piccinni, Stress Physiology – Uvalde**

**Jackie Rudd, Wheat Breeder – Amarillo**

**Justin Sladek, Extension Assistant – College Station**

**Jacob Shaffer, Graduate Student – College Station**

**Rex Herrington, Research Associate – College Station**

**Jerry Kidd, CEA – McCulloch County**

**Ben McKay, Extension Assistant – College Station**

**Purpose:** To provide unbiased yield data for wheat producers across the state. With this information, Texas wheat producers can make an educated decision about the most appropriate variety for their geographic region.

**Overview:** The Uniform Variety Trial (UVT) is coordinated and implemented by numerous TCE and TAES faculty and staff from College Station, Uvalde, and Amarillo. We greatly appreciate the cooperation of David and Mary Holubec at the Brady location. In South Texas, two locations of the UVT were planted, Brady and Uvalde. Below is a table describing the major “issues” that affected the 2004-05 wheat crop at each location.

**Funding:** The State Uniform Variety Trial is funded by the Texas Wheat Producers Board.

| Location           | Issues   |
|--------------------|--|
| Uvalde - Irrigated | Leaf rust, stripe rust, dry spring               |
| Brady - Dryland    | Leaf rust, Barley Yellow Dwarf Virus, dry spring |



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## Uniform Wheat Variety Trial - Uvalde, Irrigated 2005

| Variety                      | Source         | Grain Yield<br>(bu/ac) |           | Test Weight<br>(lb/bu) |
|------------------------------|----------------|------------------------|-----------|------------------------|
|                              |                | 2005                   | 2-Year**  | 2005                   |
| 2145                         | KSU            | 37                     | 51        | 56.1                   |
| 2145 + Coronado + Fannin     | (blend)        | 51                     | -         | 60.2                   |
| Abilene Ag Exp*              | Abilene Ag     | 27                     | -         | 58.7                   |
| AgriPro 4342*                | AgriPro        | 53                     | -         | 60.4                   |
| AP 502 CL                    | AgriPro        | 32                     | 38        | 54.5                   |
| Cisco                        | WestBred       | 29                     | 34        | 54.8                   |
| Coronado                     | AgriPro        | 59                     | 54        | 58.9                   |
| Cutter                       | AgriPro        | 50                     | 70        | 57.1                   |
| Deliver                      | OSU            | 36                     | -         | 57.5                   |
| Dumas                        | AgriPro        | 58                     | 56        | 58.5                   |
| Endurance                    | OSU            | 21                     | -         | 55.4                   |
| Fannin                       | AgriPro        | 62                     | -         | 60.9                   |
| Fannin + Cutter + Sturdy 2K  | (blend)        | 57                     | -         | 59.3                   |
| HG-9                         | Hardeman Grain | 20                     | -         | 57.9                   |
| Jagalene                     | AgriPro        | 54                     | 62        | 59.6                   |
| Jagger                       | KSU            | 56                     | 47        | 56.6                   |
| Lockett                      | TAMU           | 34                     | 40        | 55.0                   |
| Longhorn                     | AgriPro        | 50                     | 50        | 57.4                   |
| Ogallala                     | AgriPro        | 59                     | 65        | 58.6                   |
| OK 101                       | OSU            | 20                     | 33        | 55.5                   |
| OK 102                       | OSU            | 29                     | 39        | 56.6                   |
| Overley                      | KSU            | 50                     | -         | 59.6                   |
| Stanton                      | KSU            | 57                     | 64        | 58.5                   |
| Sturdy 2K                    | TAMU           | 39                     | 47        | 56.8                   |
| TAM 105                      | TAMU           | 37                     | 39        | 54.7                   |
| TAM 107                      | TAMU           | 27                     | 34        | 54.3                   |
| TAM 110                      | TAMU           | 22                     | 35        | 54.2                   |
| TAM 110 CL                   | TAMU           | 24                     | 35        | 55.5                   |
| TAM 111                      | TAMU           | 45                     | 54        | 59.3                   |
| TAM 111 + Cutter + Sturdy 2K | (blend)        | 45                     | -         | 58.1                   |
| TAM 112                      | TAMU           | 48                     | -         | 58.8                   |
| TAM 202                      | TAMU           | 51                     | 56        | 56.0                   |
| TAM 303                      | TAMU           | 63                     | -         | 58.0                   |
| TAM W-101                    | TAMU           | 44                     | -         | 56.1                   |
| Thunderbolt                  | AgriPro        | 32                     | 46        | 58.3                   |
| Trego                        | KSU            | 42                     | 52        | 57.6                   |
| TX00D1390*                   | TAMU           | 73                     | -         | 60.8                   |
| TX00V1117*                   | TAMU           | 49                     | -         | 59.4                   |
| TX01D3232*                   | TAMU           | 72                     | -         | 58.4                   |
| TX01M5009*                   | TAMU           | 72                     | -         | 59.1                   |
|                              | <b>Mean</b>    | <b>45</b>              | <b>48</b> | <b>57.6</b>            |

\* experimental variety

\*\* yield average for 2003 and 2005 (no data in 2004)



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## Uniform Wheat Variety Trial - Brady, Dryland 2005

| Variety                      | Source         | Grain Yield<br>(bu/ac) |           |           | Test Weight<br>(lb/bu) |
|------------------------------|----------------|------------------------|-----------|-----------|------------------------|
|                              |                | 2005                   | 2-Year**  | 3-Year*** | 2005                   |
| 2145                         | KSU            | 47                     | 58        | 54        | 58.2                   |
| 2145 + Coronado + Fannin     | (blend)        | 45                     | -         | -         | 58.5                   |
| Abilene Ag Exp*†             | Abilene Ag     | 10                     | -         | -         | 57.8                   |
| AgriPro 4342*                | AgriPro        | 43                     | -         | -         | 60.3                   |
| AP 502 CL                    | AgriPro        | 54                     | 46        | 45        | 57.2                   |
| Cisco                        | WestBred       | 40                     | -         | -         | 57.9                   |
| Coronado                     | AgriPro        | 47                     | 55        | 54        | 57.7                   |
| Cutter                       | AgriPro        | 44                     | 55        | 55        | 59.6                   |
| Deliver†                     | OSU            | 5                      | -         | -         | 58.2                   |
| Dumas                        | AgriPro        | 39                     | 53        | 52        | 57.3                   |
| Endurance                    | OSU            | 41                     | -         | -         | 58.2                   |
| Fannin                       | AgriPro        | 47                     | 54        | -         | 60.1                   |
| Fannin + Cutter + Sturdy 2K  | (blend)        | 39                     | -         | -         | 58.9                   |
| HG-9†                        | Hardeman Grain | 11                     | -         | -         | 57.4                   |
| Jagalene                     | AgriPro        | 50                     | 56        | 57        | 60.3                   |
| Jagger                       | KSU            | 43                     | 46        | 45        | 59.7                   |
| Lockett†                     | TAMU           | 6                      | 16        | 13        | 54.5                   |
| Longhorn†                    | AgriPro        | 7                      | 27        | 21        | 57.3                   |
| Ogallala                     | AgriPro        | 44                     | 45        | 46        | 59.3                   |
| OK 101                       | OSU            | 38                     | -         | -         | 58.1                   |
| OK 102                       | OSU            | 40                     | 52        | 50        | 59.9                   |
| Overley                      | KSU            | 45                     | 55        | -         | 59.4                   |
| Stanton                      | KSU            | 49                     | 55        | 55        | 59.5                   |
| Sturdy 2K                    | TAMU           | 43                     | 51        | 49        | 57.5                   |
| TAM 105                      | TAMU           | 41                     | -         | -         | 58.5                   |
| TAM 107                      | TAMU           | 44                     | 42        | 42        | 58.5                   |
| TAM 110                      | TAMU           | 49                     | 45        | 44        | 58.9                   |
| TAM 110 CL                   | TAMU           | 47                     | 43        | 44        | 57.8                   |
| TAM 111                      | TAMU           | 51                     | 52        | 52        | 59.7                   |
| TAM 111 + Cutter + Sturdy 2K | (blend)        | 45                     | -         | -         | 58.5                   |
| TAM 112                      | TAMU           | 62                     | 57        | -         | 59.5                   |
| TAM 202                      | TAMU           | 44                     | 45        | 47        | 58.8                   |
| TAM 303                      | TAMU           | 52                     | 62        | -         | 57.0                   |
| TAM W-101                    | TAMU           | 44                     | 41        | -         | 59.1                   |
| Thunderbolt                  | AgriPro        | 49                     | 42        | 46        | 60.2                   |
| Trego                        | KSU            | 49                     | 61        | 60        | 60.1                   |
| TX00D1390*                   | TAMU           | 47                     | -         | -         | 61.0                   |
| TX00V1117*                   | TAMU           | 49                     | -         | -         | 59.7                   |
| TX01D3232*                   | TAMU           | 50                     | -         | -         | 56.9                   |
| TX01M5009*†                  | TAMU           | 5                      | 40        | -         | 55.7                   |
|                              | <b>Mean</b>    | <b>40</b>              | <b>48</b> | <b>46</b> | <b>58.6</b>            |

\* experimental wheat breeding line

\*\* yield average for 2004 and 2005

\*\*\* yield average for 2003, 2004, and 2005

† deer damage



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