

# 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.

Location	Issues
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



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

Variety	Average	Hereford	Clovis	Etter	Perryton	Canadian	Claude	Avg 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
								TW
----- Yield (Bu/A) -----								T.W.
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
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
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
Cutter	68.9	93	75	58	<b>57</b>	<b>77</b>	53	61.9
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
Jagelene	67.8	67	<b>86</b>	<b>64</b>	<b>54</b>	62	73	61.4
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	66.2	99.8	69.6	56.2	39.9	64.4	67.3	60.0
CV		9.3	7.2	12.4	8.2	12.7	15.5	
LSD (5%)		15.1	8.3	11.3	5.3	11.5	17.0	