

**Forage Small Grain Test  
Orange, Virginia 2000-2001  
Soft Dough Stage**

	Species <sup>1</sup>	Harvest Date	Height (inches)	% Lodging	% Crude Protein <sup>2</sup>	% ADF	% NDF	% TDN	DM Yield (tons/ac)	35% DM Yield (tons/ac)
RSI Exp AZ 1998	T	6/11	38	3	7.2	34.0	62.7	62	5.94	16.98
RSI Exp 501	T	6/11	38	3	5.8	35.5	61.5	61	5.74	16.41
Trical 815	T	6/11	42	5	5.9	34.4	59.9	61	5.71	16.31
Trical 102	T	6/11	56	70	7.1	37.2	60.8	59	5.63	16.09
Trical 498	T	6/11	36	5	6.1	36.6	62.9	60	5.03	14.37
Trical 308	T	6/11	30	3	6.5	33.4	59.9	62	4.74	13.55
RSI Exp 111	T	6/11	30	0	8.9	33.2	59.6	62	4.57	13.05
Featherstone 520	W	5/31	28	0	8.0	30.3	54.6	64	4.03	11.52
N90-6590	O	6/11	28	4	10.6	32.8	57.6	62	3.88	11.10
Sisson	W	5/31	28	0	8.7	31.3	52.7	63	3.75	10.71
Jackson	W	5/31	25	0	8.4	31.2	53.6	63	3.70	10.57
Roane	W	5/31	24	0	8.7	31.8	56.0	63	3.68	10.52
Pocahontas	W	5/31	28	0	7.6	32.2	56.0	63	3.59	10.25
Starling	B	5/24	31	95	9.0	32.8	57.6	62	3.22	9.21
SS 76-30	O	6/11	34	18	10.9	32.8	57.0	62	3.02	8.62
Winter Grazer 70	R <sup>3</sup>	5/4	62	0	10.5	39.0	64.1	58	3.01	8.59
Rodgers	O	6/11	30	5	10.7	32.4	59.0	63	2.99	8.55
Wheeler	R <sup>3</sup>	5/7	54	0	11.8	34.1	58.3	61	2.99	8.53
SR-XR9908	R <sup>3</sup>	5/4	59	0	10.1	38.7	64.3	59	2.90	8.28
Winter King	R <sup>3</sup>	5/4	58	0	11.1	38.3	63.8	59	2.87	8.21
Early Grazer	R <sup>3</sup>	5/4	65	0	10.9	38.4	63.3	59	2.82	8.05
Nomini	B	5/24	33	51	8.8	32.9	58.3	62	2.66	7.60
Callao	B	5/24	26	68	9.2	31.3	59.5	63	2.57	7.36
SPI Exp	R <sup>3</sup>	5/4	59	0	11.7	36.5	61.7	60	2.39	6.82
V N S (MI)	R <sup>3</sup>	5/7	46	0	12.3	33.4	59.4	62	2.19	6.26
<b>LSD (0.05)</b>					<b>1.2</b>	<b>1.8</b>	<b>3.4</b>		<b>0.73</b>	<b>2.08</b>

<sup>1</sup> B= Barley, O= Oats, R= Rye, T= Triticale, W= Wheat.

<sup>2</sup> Highlighted Crude protein figures represent the highest t grouping and are not significantly different from each other. See LSD for comparison of all varieties.

<sup>3</sup>Rye Harvested in the Early Bloom Stage.

10-3-00 - Applied 25 lbs N, 50 lbs P, 50 lbs K and 30 lbs S per acre.

10-11-00 - Planted 25 varieties.

02-27-01 - Applied 60 lbs N per acre.

**Forage Small Grain Test  
Orange, Virginia 1999-2000  
Soft Dough Stage**

	Spp. <sup>1</sup>	Harvest Date	Height (inches)	% Lodging	% Crude Protein <sup>2</sup>	% ADF	% NDF	% TDN	DM Yield (tons/ac)	35% DM Yield (tons/ac)
Trical 336	T	06/01	54	20	7.5	40.0	62.6	58	8.10	23.15
Arcia NCSU	T	06/01	54	69	7.4	37.6	60.4	59	7.75	22.15
Trical 498	T	06/01	51	47	6.9	40.6	65.1	57	7.69	21.96
Jackson	W	05/24	44	93	9.7	36.0	55.2	60	7.05	20.15
Trical 815	T	06/05	54	20	6.8	40.3	61.6	57	6.94	19.84
Pocahontas	W	05/24	45	15	9.1	36.6	56.8	60	6.93	19.79
Featherstone 520	W	05/24	45	76	9.4	37.0	58.8	60	6.91	19.73
Trical 2700	T	06/05	61	91	6.4	40.3	64.1	57	6.90	19.73
Trical 102	T	06/05	64	96	7.1	39.1	59.3	58	6.77	19.33
Roane	W	05/26	41	76	9.9	36.9	59.2	60	6.49	18.55
Nomini	B	05/15	50	4	8.3	39.2	60.9	58	6.33	18.10
RSI TCL Exp 451	T	06/05	54	91	6.5	40.9	63.3	57	6.14	17.53
Rodgers	O	05/24	47	39	9.1	35.6	57.6	60	6.01	17.17
N90-6590	O	05/24	46	29	10.1	33.0	54.5	62	6.00	17.13
Starling	B	05/15	44	45	9.1	36.5	57.8	60	5.83	16.67
Callao	B	05/15	39	0	9.2	36.2	61.2	60	5.70	16.28
SS 76-30	O	05/24	51	41	9.0	36.6	55.3	60	5.25	14.99
Wheeler	R <sup>3</sup>	05/08	64	76	11.7	38.9	60.9	58	5.17	14.77
Early Grazer	R <sup>3</sup>	04/26	58	84	11.4	35.8	58.9	60	5.11	14.61
ABT XR9901	R <sup>3</sup>	04/28	56	60	11.2	36.8	59.9	60	5.00	14.29
SPI Exp	R <sup>3</sup>	04/28	60	75	11.3	35.5	58.9	61	5.00	14.28
Winter Grazer 70	R <sup>3</sup>	04/28	60	78	12.6	36.0	58.1	60	4.85	13.85
Winter King	R <sup>3</sup>	04/26	58	89	12.9	35.4	57.9	61	4.60	13.13
ABT XR9903	R <sup>3</sup>	04/28	58	70	12.0	36.6	59.8	60	4.55	13.00
V N S (MI)	R <sup>3</sup>	05/02	54	89	14.5	34.8	58.6	61	3.98	11.36
<b>LSD (0.05)</b>					<b>1.7</b>	<b>2.8</b>	<b>3.6</b>		<b>0.86</b>	<b>2.47</b>

<sup>1</sup> Species include B= Barley, O= Oats, R= Rye, T= Triticale, W= Wheat.

<sup>2</sup> Highlighted Crude protein figures represent the highest t grouping and are not significantly different from each other. See LSD for comparison of all varieties.

<sup>3</sup>Rye Harvested in the Early Bloom Stage.

09-20 99 - Applied 25 lbs N, 50 lbs P, 50 lbs K and 30 lbs. S per acre.

10-25 & 26-99 - Planted 25 different varieties.

11-8-99 - Emerged.

03/01/00 - Applied 60 # N per acre.

**Forage Small Grain Test  
Orange, Virginia 1998-1999  
Soft Dough Stage**

	Spp. <sup>1</sup>	Harvest Date	Height (inches)	% Lodging	% Crude Protein <sup>2</sup>	% ADF	% NDF	% TDN	DM Yield (tons/ac)	35% DM Yield (tons/ac)
RSI TCL Exp 451	T	06/01	54	35	7.28	31.0	55.5	64	8.75	24.99
Trical 2700	T	06/01	62	23	6.57	35.7	54.8	60	8.53	24.38
Trical 815	T	06/01	54	13	7.18	30.8	50.9	64	8.01	22.89
Trical 336	T	06/01	52	13	6.05	35.6	60.5	61	7.95	22.71
Jackson	W	05/24	42	33	7.20	29.9	50.7	64	7.77	22.21
Featherstone 520	W	05/24	41	5	6.97	29.1	49.0	65	7.70	21.99
Trical 102	T	06/01	58	96	6.48	35.4	56.2	61	7.54	21.53
Callao	B	05/11	37	0	7.55	27.9	48.6	66	7.15	20.43
Pocahontas	W	05/24	41	0	7.95	28.3	47.8	65	6.93	19.80
Trical 498	T	06/01	46	3	6.93	29.1	49.1	65	6.86	19.61
Roane	W	05/24	41	5	7.58	29.4	50.6	65	6.85	19.56
Starling	B	05/11	42	0	7.81	29.0	47.0	65	6.60	18.86
Nomini	B	05/11	46	0	7.55	30.4	47.4	64	6.59	18.83
Rodgers	O	05/24	41	0	7.70	33.3	54.0	62	5.48	15.65
Wheeler	R <sup>3</sup>	04/28	57	44	10.19	36.8	57.9	60	5.18	14.81
SS 76-30	O	05/24	45	0	7.31	31.5	50.4	63	4.85	13.85
Winter King	R <sup>3</sup>	04/26	61	20	8.92	39.2	60.6	58	4.80	13.70
N90-6590	O	05/24	36	0	7.85	31.7	53.3	63	4.72	13.49
V N S (MI)	R <sup>3</sup>	04/28	56	30	10.96	37.3	59.9	59	4.45	12.70
Early Grazer	R <sup>3</sup>	04/26	66	30	11.29	37.8	63.6	59	4.31	12.31
Abruzzi	R <sup>3</sup>	04/26	65	35	9.79	39.3	60.8	58	4.28	12.24
Winter Grazer 70	R <sup>3</sup>	04/26	66	23	10.38	38.1	61.2	59	4.27	12.19
<b>LSD (0.05)</b>					<b>1.30</b>	<b>2.72</b>	<b>4.88</b>		<b>0.83</b>	<b>2.36</b>

<sup>1</sup> Species include B= Barley, O= Oats, R= Rye, T= Triticale, W= Wheat.

<sup>2</sup> Highlighted Crude protein figures represent the highest t grouping and are not significantly different from each other. See LSD for comparison of all varieties.

<sup>3</sup>Rye Harvested in the Early Bloom Stage.

09-24 98 - Applied 25 lbs N, 50 lbs P, 50 lbs K and 30 lbs. S per acre.

10-07-98 - Planted 22 different varieties.

02-01-99 - Applied 60 lbs N per acre.

**Forage Small Grain Test  
Orange, Virginia 1997-1998  
Soft Dough Stage**

	Species <sup>1</sup>	Harvest Date	Height (inches)	% Lodging	% Crude Protein <sup>2</sup>	% ADF	% NDF	% TDN	DM Yield (tons/ac)	35% DM Yield (tons/ac)
Trical 102	T	06/12	68	98	5.7	45.5	67.4	54	8.89	25.40
Trical 815	T	06/12	56	36	6.5	40.2	62.9	57	8.87	25.33
Trical 2700	T	06/12	66	60	6.6	39.3	62.3	58	8.60	24.58
Jackson	W	06/01	44	84	6.3	35.6	57.1	60	7.53	21.52
RSI TCL Exp 368	T	06/12	50	63	7.9	39.8	65.8	58	7.28	20.81
Pocahontas	W	05/26	42	48	7.3	34.9	55.3	61	7.19	20.54
Madison	W	05/26	42	45	8.0	38.1	59.5	59	7.12	20.35
Featherstone 520	W	06/01	40	90	7.3	34.7	57.1	61	7.09	20.27
N90-6590	O	06/08	52	35	7.2	38.8	59.7	58	6.91	19.73
RSI TCL Exp 451	T	06/08	52	78	7.1	38.4	61.7	59	6.84	19.54
Trical 498	T	06/08	48	3	8.1	39.5	63.6	58	6.62	18.92
Rodgers	O	06/01	50	40	6.7	36.0	59.8	60	6.05	17.29
SS 76-30	O	06/01	55	77	6.9	40.0	60.5	58	6.00	17.15
Pastar	R <sup>3</sup>	05/01	58	83	8.0	41.1	65.6	57	5.79	16.54
Nomini	B	05/09	42	33	9.1	36.0	60.3	60	5.78	16.50
Wheeler	R <sup>3</sup>	05/01	60	69	9.9	38.8	62.7	58	5.51	15.74
Starling	B	05/09	42	36	8.9	38.8	62.7	58	5.39	15.39
V N S (SD)	R <sup>3</sup>	05/01	60	79	8.9	38.5	63.5	59	5.33	15.23
Callao	B	05/09	31	44	9.9	34.3	60.4	61	5.30	15.15
Winter King	R <sup>3</sup>	04/24	48	35	12.3	36.6	62.3	60	4.44	12.69
Abruzzi	R <sup>3</sup>	04/24	46	30	12.4	35.8	60.9	60	3.37	9.63
Early Grazer	R <sup>3</sup>	04/24	44	23	12.9	35.2	61.5	61	3.33	9.51
6250 Abruzzi	R <sup>3</sup>	04/24	46	33	12.5	35.7	60.9	60	3.31	9.45
<b>LSD (0.05)</b>					<b>2.0</b>	<b>4.7</b>	<b>5.0</b>		<b>0.93</b>	<b>2.66</b>

<sup>1</sup> B=Barley, O=Oats, R=Rye, T= Triticale, W=Wheat.

<sup>2</sup> Highlighted Crude protein figures represent the highest t grouping and are not significantly different from each other. See LSD for comparison of all varieties.

<sup>3</sup>Rye Harvested in the Early Bloom Stage.

9-8-97 - Applied 25 lbs N, 22 lbs P, and 50 lbs K fertilizer per acre.

10-6-97 - Planted.

10-15-97 - Emerged.

2-22-98 - Applied 60 lbs N per acre.

**Forage Small Grain Test  
Orange, Virginia 1996-1997  
Soft Dough Stage**

	Species <sup>1</sup>	Harvest Date	Height (inches)	% Lodging	% Crude Protein <sup>2</sup>	% ADF	% NDF	% TDN	DM Yield (tons/ac)	35% DM Yield (tons/ac)
Trical 2700	T	06/13	56	0	5.1	35.1	64.7	61	6.65	18.99
Trical 498	T	06/13	48	0	4.7	36.4	62.5	60	6.30	18.01
Trical 102	T	06/20	59	40	5.0	34.9	59.2	61	6.28	17.94
Jackson	W	06/05	39	0	5.7	31.5	58.4	63	5.78	16.51
Starling	B	05/19	42	0	5.6	25.9	50.8	67	5.18	14.81
Massey	W	06/05	40	0	5.9	30.3	55.9	64	5.09	14.54
Featherstone 520	W	06/05	37	0	5.9	28.9	57.6	65	4.79	13.69
Madison	W	06/05	38	0	6.0	30.2	59.2	64	4.60	13.14
Callao	B	05/13	36	0	6.8	27.6	54.0	66	4.29	12.26
Early Grazer	R <sup>3</sup>	04/29	68	13	8.0	39.1	63.5	58	4.19	11.97
Abruzzi	R <sup>3</sup>	04/29	64	47	6.8	38.7	63.5	59	4.15	11.84
Nomini	B	05/13	42	0	5.9	30.0	54.8	64	4.10	11.70
Pastar	R <sup>3</sup>	05/08	60	0	8.2	42.6	66.7	56	3.95	11.27
Winter King	R <sup>3</sup>	04/29	62	17	9.1	38.7	63.0	59	3.91	11.18
Wheeler	R <sup>3</sup>	05/08	64	0	8.4	41.6	65.6	57	3.86	11.04
V N S (SD)	R <sup>3</sup>	05/08	55	0	8.9	38.1	63.6	59	3.82	10.91
Va Ct Abruzzi	R <sup>3</sup>	04/29	64	30	8.6	38.4	64.3	59	3.72	10.64
SS 76-30	O	06/05	36	0	7.1	31.0	55.0	63	3.13	8.95
<b>LSD (0.05)</b>					<b>1.3</b>	<b>3.4</b>	<b>4.2</b>		<b>0.55</b>	<b>1.57</b>

<sup>1</sup> B=Barley, O=Oats, R=Rye, T= Triticale, W=Wheat.

<sup>2</sup> Highlighted Crude protein figures represent the highest t grouping and are not significantly different from each other. See LSD for comparison of all varieties.

<sup>3</sup> Only three replications harvested.

<sup>3</sup> Rye Harvested in the Early Bloom Stage.

10-14-96 - Applied 30 lbs N, 70 lbs P, and 70 lbs per acre.

10-17-96 - Planted.

10-25-96 - Emerged.

2-18-97 - Applied 60 lbs N per acre.

**Forage Small Grain Test  
Orange, Virginia 1995-1996  
Soft Dough Stage**

	Species <sup>1</sup>	Harvest Date	Height (inches)	% Lodging	% Crude Protein <sup>2</sup>	% ADF	% NDF	% TDN	DM Yield (tons/ac)	35% DM Yield (tons/ac)
Trical 498	T	06/11	45	28	6.7	36.4	58.8	60	6.13	17.52
Trical L762	T	06/21	47	96	7.6	39.0	64.2	58	5.91	16.89
Massey	W	06/11	42	84	7.3	28.4	52.0	65	5.81	16.60
Featherstone 520	W	06/11	37	66	7.8	28.9	51.4	65	5.78	16.50
Verne	W	06/11	41	48	7.0	30.9	52.9	64	5.75	16.44
Trical 102	T	06/21	57	98	6.7	39.7	62.6	58	5.51	15.75
Jackson	W	06/11	36	63	7.8	28.7	49.4	65	5.45	15.57
Trical Jenkins	T	06/21	58	98	7.6	36.0	61.9	60	5.09	14.55
Trical 2700	T	06/21	54	96	6.4	36.0	63.1	60	4.65	13.29
Nomini	B	05/30	35	0	9.2	29.3	56.9	65	4.40	12.56
SS 76-30	O	06/21	36	20	7.6	34.1	52.8	61	4.31	12.31
Madison	W	06/11	40	23	7.5	28.3	51.6	65	4.14	11.84
Starling	B	05/30	36	0	10.2	29.9	57.9	64	4.13	11.81
Callao	B	05/30	27	0	9.9	25.4	55.2	67	3.86	11.04
Pamunkey	B	05/30	32	0	10.5	27.9	54.2	66	3.67	10.49
V N S (SD)	R <sup>3</sup>	05/14	56	73	9.9	38.1	65.1	59	3.66	10.45
Wheeler	R <sup>3</sup>	05/14	54	78	11.1	37.7	63.0	59	3.39	9.69
Pastar	R <sup>3</sup>	05/14	58	73	11.3	37.5	63.7	59	3.28	9.36
Early Grazer	R <sup>3</sup>	05/06	54	20	11.6	37.8	64.3	59	3.21	9.18
Winter King	R <sup>3</sup>	05/06	51	48	10.6	38.8	64.2	58	3.12	8.90
Va Ct Abruzzi	R <sup>3</sup>	05/06	50	53	11.2	38.5	66.3	59	2.62	7.48
Abruzzi	R <sup>3</sup>	05/06	48	55	11.9	37.9	65.3	59	2.47	7.07
<b>LSD (0.05)</b>					<b>1.3</b>	<b>3.2</b>	<b>3.9</b>		<b>1.32</b>	<b>3.78</b>

<sup>1</sup> B=Barley, O=Oats, R=Rye, T= Triticale, W=Wheat.

<sup>2</sup> Highlighted Crude protein figures represent the highest t grouping and are not significantly different from each other. See LSD for comparison of all varieties.

<sup>3</sup> Rye Harvested in the Early Bloom Stage.

9-22-95 - Applied 30 lbs N with P and K to soil test recommendations.

10-25-95 - Planted.

11-3-95 - Emerged.

2-26-96 - Applied 60 lbs N per acre.

**Forage Small Grain Test  
Orange, Virginia 1994-1995  
Soft Dough Stage**

	Species <sup>1</sup>	Harvest Date	Height (inches)	% Lodging	% Crude Protein <sup>2</sup>	% ADF	% NDF	% TDN	DM Yield (tons/ac)	35% DM Yield (tons/ac)
Trical 2700	T	06/09	58	14	5.4	38.5	65.2	59	6.73	19.22
Trical 102	T	06/09	64	81	6.7	33.5	61.3	62	5.85	16.71
Trical Jenkins	T	06/09	64	86	6.1	38.1	62.3	59	5.36	15.30
Nomini	B	05/11	36	0	7.9	26.1	50.0	67	5.25	15.01
Starling	B	05/11	34	0	8.9	27.1	49.7	66	5.21	14.89
Pamunkey	B	05/11	33	0	7.8	26.7	50.6	66	5.16	14.73
Massey	W	05/31	41	0	6.5	29.2	51.4	65	4.93	14.09
Wheeler	R <sup>3</sup>	05/11	69	0	9.6	39.0	63.4	58	4.79	13.69
Jackson	W	05/31	35	0	6.9	29.9	51.4	64	4.77	13.63
Barsoy	B	05/11	33	0	7.7	27.1	49.9	66	4.70	13.43
V N S (SD)	R <sup>3</sup>	05/11	57	0	10.7	37.4	62.4	59	4.34	12.40
Trical 498	T	05/31	39	0	7.0	34.1	58.3	62	4.05	11.59
Wakefield	W	05/31	38	0	8.7	26.9	50.0	66	4.03	11.53
SS 76-30	O	05/11	35	0	8.7	30.5	54.2	64	3.87	11.05
Madison	W	05/31	33	0	6.8	29.2	52.6	65	3.84	10.96
Winter King	R <sup>3</sup>	04/21	58	0	11.0	36.1	61.0	60	3.80	10.85
Abruzzi	R <sup>3</sup>	04/21	56	0	12.8	31.9	59.5	63	3.62	10.35
Va Ct Abruzzi	R <sup>3</sup>	04/21	59	0	12.1	34.1	59.5	61	3.37	9.62
<b>LSD (0.05)</b>					<b>1.4</b>	<b>3.3</b>	<b>2.2</b>		<b>0.56</b>	<b>1.60</b>

<sup>1</sup> B=Barley, O=Oats, R=Rye, T= Triticale, W=Wheat.

<sup>2</sup> Highlighted Crude protein figures represent the highest t grouping and are not significantly different from each other. See LSD for comparison of all varieties.

<sup>3</sup>Rye Harvested in the Early Bloom Stage.

10-3-94 - Applied 25 lbs N, 50 lbs P and 50 lbs K per acre.

10-5-94 - Planted.

10-14-94 - Emerged.

3-13-95 - Applied 1/4 pt. Banvel and 1/2 pt. 2 4,D per acre.

3-16-95- Applied 60 lbs. N per acre.

**Forage Small Grain Test  
Orange, Virginia 1993-1994  
Soft Dough Stage**

	Species <sup>1</sup>	Harvest Date	Height (inches)	Lodging (0-10)	% Crude Protein <sup>2</sup>	% ADF	% TDN	DM Yield (tons/ac)	35% DM Yield (tons/ac)
Jackson	W	06/03	34	0	6.1	30.8	80	4.99	14.25
Massey	W	06/03	37	0	5.4	28.4	80	4.07	11.62
Starling	B	05/18	29	0	5.7	25.1	80	3.96	11.31
Wakefield	W	06/03	33	0	5.7	25.2	80	3.92	11.21
Va 92-42-279	B	05/18	29	0	6.7	26.6	79	3.88	11.09
Madison	W	06/03	33	0	5.6	27.5	80	3.69	10.55
Nomini	B	05/18	30	0	6.7	26.0	79	3.62	10.36
Callao	B	05/18	25	0	6.6	22.8	79	3.57	10.19
Pamunkey	B	05/18	24	0	6.6	24.4	79	3.32	9.48
Barsoy	B	05/18	29	0	6.6	26.0	79	3.26	9.32
SS 76-30	O	06/03	32	0	6.6	35.6	80	2.17	6.21
<b>LSD (0.05)</b>					<b>0.8</b>	<b>6.0</b>		<b>0.62</b>	<b>1.76</b>

<sup>1</sup> B=Barley, O=Oats, R=Rye, T= Triticale, W=Wheat.

<sup>2</sup> Highlighted Crude protein figures represent the highest t grouping and are not significantly different from each other.

See LSD for comparison of all varieties.

9-30-93 - Applied 60 lbs N, 60 lbs P and 60 lbs K per acre.

9-30-93 - Applied 2.5 tons lime per acre.

10-13-93 - Planted.

10-22-93 - Emerged.

3-18-94 - Applied 60 lbs N per acre.