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Eliezer Itamar Winkler²

O Centro Nacional de Pesquisa de Trigo (Embrapa Trigo) vem, desde a safra agrícola de 1993/94, desenvolvendo variedades e híbridos para a Região Norte do Rio Grande do Sul. Este trabalho tem como objetivo mostrar o comportamento das variedades ensaiadas no período de 1996/97 a 1999/00. Embora se saiba que o potencial de rendimento de grãos de híbridos é superior ao potencial de rendimento de variedades, em condições de baixo uso de insumos o híbrido não consegue expressar seu potencial e se equivale às variedades em termos de rendimento de grãos. Apesar dos ensaios terem sido, em geral, executados em áreas de fertilidade de solo e manejo adequados, as diferenças entre o rendimento de grãos dos híbridos usados como testemunhas e algumas variedades não são significativas estatisticamente. O elevado preço da semente e a necessidade de adquiri-la anualmente fazem com que as variedade melhoradas sejam alternativa, especialmente para a pequena propriedade rural.

As variedades da Embrapa Trigo são identificadas pela sigla PFMVS. O deli-

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neamento experimental usado, tanto nos Ensaios Preliminares, conduzidos na Embrapa Trigo em Passo Fundo, RS, como nos Ensaios Regionais de Variedades, conduzidos em diferentes locais do estado, foi blocos ao acaso, com três ou quatro repetições. As parcelas foram constituídas por duas linhas de 4,0 m ou de 5,0 m, distanciadas de 0,80 m. O plantio em Passo Fundo foi realizado com semeadora Wintersteiger, de duas linhas, adaptada para plantio direto. A densidade de semeadura foi de 100.000 plantas por hectare (o dobro da população desejada), com posterior desbaste para 50.000 plantas (quatro plantas por metro linear). As cultivares usadas como testemunhas foram CEP 304, BR 106 (variedades) e AG 215, AG 5011, C 901 e P 3232 (híbridos). Os tratos culturais foram os recomendados pela pesquisa. A adubação de base foi de acordo com a análise de solo e, o nitrogênio em cobertura foi aplicado quando as plantas estavam com seis a sete folhas bem desenvolvidas, na forma de uréia. Foram determinados: dias à infloração masculina e feminina a 90 % das emissões florais (IM e IF), estatura de plantas (AP), altura de inserção da espiga principal (AE), plantas acamadas (AC), plantas quebradas (QB), estande final (SF), índice de espigas (IE) obtido a partir do número total de espigas e do estande final, porcentagem de espigas sadias em relação ao total de espigas sadias mais as doenças ou mal granadas (ES) e relação peso de grão sobre peso de grão mais sabugo (G/S) e teor de umidade de grãos por parcela. O rendimento de grãos foi expresso em kg/ha a 13 % de umidade. As análises estatísticas, suplementadas pelo teste de significância de F e de Tukey a 5 %, indicaram os coeficientes de variação e as comparações de médias de produtividade de grãos dos tratamentos. Neste trabalho estão relatados os ensaios regionais conduzidos em Passo Fundo e em Fortaleza dos Valos em 1999.

Os resultados observados nos ensaios, nas safras agrícolas de 1996/1997 a 1999/2000 encontram-se nas Tabelas 1 a 8. Em relação ao rendimento de grãos nos ensaios preliminares (Tabelas 1 e 2) observa-se que só as cultivares PFMVS 96320 e PFMVS 95440, entre os materiais desenvolvidos pela Embrapa Trigo, apresentaram diferença significativa pelo teste de Tukey ao nível de 5 % em relação ao híbrido testemunha (C 901) no ano 1996/1997 e aos híbridos testemunhas (AG 5011 e C 444) no ano 1997/98. Na Tabela 3, em 1998/99, com exceção a cultivar PFMVS 97440 os demais materiais ficaram no primeiro grupo. No ensaio de populações (Tabela 4) os materiais PFMVS não diferiram dos híbridos testemunhas (C 901 e C 444), com exceção de PFMVS 97440.

Nas Tabelas de 5 a 8, encontram-se os resultados do Ensaio Regional de Variedades, conduzidos nos anos agrícolas de 1997/1998, 1998/1999 e 1999/2000, nos municípios de Passo Fundo e Fortaleza dos Valos. Observa-se que nesses ensaios, nenhuma cultivar PFMVS, apresentou diferença significativa em relação aos híbridos usados como testemunhas. Verificou-se que, nos plantios do tarde as variedades tenderam a apresentar maior estatura de plantas e apresentaram maior número de plantas acamadas e quebradas, em relação aos híbridos testemunhas. Deve-
se mencionar que as variedades foram plantadas sem tratamento de semente e continuam sendo selecionadas anualmente para corrigir defeitos. As diferenças de rendimento de grãos e de outras características entre anos e locais são principalmente devidas às condições climáticas ocorridas no período. Das variedades em desenvolvimento na Embrapa Trigo, proporcionaram melhores rendimentos de grãos PFMVS 95220, PFMVS 96320, PFMVS 96340 e PFMVS 97440, respectivamente, grãos do tipo dentado, semidentado, semiduro e duro. Esses materiais deverão ser indicados preferentemente para a pequena propriedade rural, para cultivo em épocas normais de plantio e estarão sendo indicadas e comercializados nos próximos anos.

Tabela 1. Dados de rendimento de grãos e outras características do Ensaio Preliminar de Variedades da Embrapa Trigo, em Passo Fundo, RS, 1996/97

<table>
<thead>
<tr>
<th>Cultivar</th>
<th>IM dias</th>
<th>IF dias</th>
<th>AP cm</th>
<th>AE cm</th>
<th>SF %</th>
<th>AC %</th>
<th>QB %</th>
<th>IE %</th>
<th>ES %</th>
<th>G/S kg/ha</th>
</tr>
</thead>
<tbody>
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<td>95</td>
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<td>0,64</td>
<td>76</td>
<td>0,82</td>
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Médias seguidas das mesmas letras maiúsculas, na vertical, não apresentam diferenças significativas, ao nível de 5% de probabilidade, pelo teste de Tukey.
Média das testemunhas: 8,538 kg/ha; Média geral do ensaio: 6,725 kg/ha; LSD a 0,05: 711 kg; CV%: 7,19
IM = inflorescência masculina; IF = inflorescência feminina; AP = estatura de plantas; AE = altura de inserção da espiga principal; SF = estande final; AC = plantas acamadas; QB = plantas quebradas; IE = índice de espigas; ES = espigas sadias e bem granadas e G/S = relação grãos/sabugo.
<table>
<thead>
<tr>
<th>Cultivar</th>
<th>IM</th>
<th>IF</th>
<th>SF</th>
<th>AC</th>
<th>QB</th>
<th>IE</th>
<th>ES</th>
<th>G/S</th>
<th>kg/ha</th>
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<td>78</td>
<td>4.809 F</td>
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<td>0.84</td>
<td>78</td>
<td>4.548 F</td>
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</table>

Médias seguidas das mesmas letras maiúsculas, na vertical, não apresentam diferenças significativas, ao nível de 5% de probabilidade, pelo teste de Tukey.

Média das Testemunhas: 7.787 kg/ha; Média geral do ensaio: 6.092 kg/ha; LSD a 0,05: 758 kg; CV%: 8,68.

IM = inflorescência masculina; IF = inflorescência feminina; SF = estande final; AC = plantas acamadas; QB = plantas quebradas; IE = índice de espigas; ES = espigas sadias e bem granadas e G/S = relação grãos/sabugo.

<table>
<thead>
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<th>Cultivar</th>
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<th>AE</th>
<th>SF</th>
<th>AC</th>
<th>QB</th>
<th>IE</th>
<th>ES</th>
<th>G/S</th>
<th>kg/ha</th>
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Médias seguidas das mesmas letras maiúsculas, na vertical, não apresentam diferenças significativas, ao nível de 5% de probabilidade, pelo teste de Tukey.

Média das variedades testemunhas: 5.443 kg/ha; Média geral do ensaio: 6.656 kg/ha; LSD a 0,05: 760 kg; CV%: 7,88.

IM = inflorescência masculina; IF = inflorescência feminina; AP = estatura das plantas; AE = altura da inserção da espiga principal; SF = estande final; AC = plantas acamadas; QB = plantas quebradas; IE = índice de espigas; ES = espigas sadias e bem granadas e G/S = relação grãos/sabugo.
### Tabela 4. Dados de rendimento de grãos e outras características do Ensaio de Populações do Cedo no Sul, Passo Fundo, RS, 1999/00

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<th>Cultivar</th>
<th>IM</th>
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<th>AE</th>
<th>SF</th>
<th>AC</th>
<th>QB</th>
<th>IE</th>
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<th>G/S</th>
<th>kg/ha</th>
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Médias seguidas das mesmas letras maiúsculas, na vertical, não apresentam diferenças significativas, ao nível de 5% de probabilidade, pelo teste de Tukey. 
Média dos híbridos testemunhas: 6.819 kg/ha; Média geral do ensaio: 4.632 kg/ha; LSD a 0.05: 1.192 kg; CV%: 15.80.

IM = inflorescência masculina; AP = estatura das plantas; AE = altura da inserção da espiga principal; SF = estande final; AC = plantas acamadas; QB = plantas quebradas; IE = índice de espigas; ES = espigas sadias e bem granadas e G/S = relação grãos/sabugo.
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Médias seguidas das mesmas letras maiúsculas, na vertical, não apresentam diferenças significativas, ao nível de 5% de probabilidade, pelo teste de Tukey.
Média das testemunhas: 7.787 kg/ha; Média geral do ensaio: 6.134 kg/ha; LSD a 0,05: 902 kg; CV%: 10,48.
IM = inflorescência masculina; IF = inflorescência feminina; SF = estande final; AC = plantas acamadas; QB = plantas quebradas; IE = índice de espigas; ES = espigas sadias e bem granadas e G/S = relação grãos/sabugo.
Tabela 6. Dados de rendimento de grãos e outras características do Ensaio Regional de Variedades de Milho, em Passo Fundo, RS, 1998/99

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Médias seguidas das mesmas letras maiúsculas, na vertical, não apresentam diferenças significativas, ao nível de 5 % de probabilidade, pelo teste de Tukey.

Média dos híbridos testemunhas: 7.425 kg/ha; Média geral do ensaio: 5.961 kg/ha; LSD a 0,05: 1.256 kg; CV%; 14,93.

IM = inflorescência masculina; IF = inflorescência feminina; AP = estatura das plantas; AE = altura da inserção da espiga principal; SF = estande final; AC = plantas acamadas; QB = plantas quebradas; IE = índice de espigas; ES = espigas sadias e bem granadas e G/S = relação grãos/sabugo.
Tabela 7. Dados de rendimento de grãos e outras características do Ensaio Regional de Variedades de Milho, em Passo Fundo, RS, 1999/2000

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<th>SF</th>
<th>AC</th>
<th>QB</th>
<th>IE</th>
<th>ES</th>
<th>kg/ha</th>
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Médias seguidas das mesmas letras maiúsculas, na vertical, não apresentam diferenças significativas, ao nível de 5% de probabilidade, pelo teste de Tukey.

Média dos híbridos testemunhas: 7.628 kg/ha; Média geral do ensaio: 6.779 kg/ha; LSD a 0.05: 2.188 kg; CV%: 19.66.

IM = inflorescência masculina; AP = estatura das plantas; AE = altura da inserção da espiga principal; SF = estande final; AC = plantas acamadas; QB = plantas quebradas; IE = índice de espigas e ES = espigas sadias e bem granadas.
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Médias seguidas das mesmas letras maiúsculas, na vertical, não apresentam diferenças significativas, ao nível de 5 % de probabilidade, pelo teste de Tukey.

Média dos híbridos testemunhas: 7.520 kg/ha; Média geral do ensaio: 6.337 kg/ha; LSD a 0.05: 1.146 kg; CV%: 11.02.

SF = estande final; AC = plantas acamadas; QB = plantas quebradas; IE = índice de espigas; ES = espigas sadias e bem granadas e G/S = relação grãos/sabugo.