Registration of Crop Cultivars

NOTICE

The format of Registration articles in this issue has been slightly changed to improve efficiency in page makeup. All of the information in the articles remains intact, but the order of items is different. Future issues of *Crop Science* will reflect the new format. Further information can be obtained from the editorial offices at 677 South Segoe Road, Madison, WI 53711.

WEEVLCHEK AND TEMPO ALFALFA

`WEEVLCHEK` and `TEMPO` alfalfa (*Medicago sativa* L.) (Reg. Nos. 120 and 121) were developed by FFR Cooperative.

`WEEVLCHEK` (Reg. No. 120), tested experimentally as Syn W, is a six-clone synthetic cultivar. Five parental clones were selected from *Medicago sativa* and one from *Medicago falcata*. Selection was based on clonal and open-pollinated progeny tests for disease and insect resistance. `WEEVLCHEK` is a winter-hardy, persistent cultivar with dark green leaves and variable flower color. Winter-hardiness and area of adaptation are similar to those of `Vernal`. It has been tested in Indiana, Illinois, Iowa, Maryland, Nebraska, Virginia, and Wisconsin. Forage yield is equal to or better than that of `Vernal`. `WEEVLCHEK` has high resistance to bacterial wilt (*Corynebacterium insidiosum* (McCull.) H.L. Jens.), potato leafhopper (*Empoasca fabae* (Harris)) and measurable resistance to the alfalfa weevil (*Hypera postica* (Gyllenhal)). `WEEVLCHEK` has not been tested for levels of resistance to anthracnose caused by *Colletotrichum trifolii* (Bain and Essary), pea aphid (*Acyrthosiphon pisum* (Harris)), spotted alfalfa aphid (*Theroaphis maculata* (Buckton)), and stem nematode (*Ditylenchus dipsaci* (Kühn) Filipjür).

`TEMPO` (Reg. No. 121), tested experimentally as FFR DC-2, is a blend of two two-clone synthetic cultivars. One of the two-clone synthetics traces to selections from the cultivars, `Ranger` and `Buffalo`. The other two parents trace to a Flemish × `Vernal` cross. The parental clones were selected for vigor and resistance to bacterial wilt. `TEMPO` is moderately winter hardy, similar to `Saranac`, and appears to be well adapted to the Midwest and the middle Atlantic states. `TEMPO` has predominantly purple and blue flower color. It has high resistance to bacterial wilt and is similar to `Vernal` in leafhopper resistance. Forage yields of `TEMPO` are equal to or better than those of `Vernal` and `Saranac`. `TEMPO` has not been tested for levels of resistance to anthracnose, Phytophthora root rot (*Phytophthora megasperma* (Drechs.)), pea aphid, spotted alfalfa aphid or stem nematode.

Seed increase of `WEEVLCHEK` and `TEMPO` will be on a limited generation basis with one generation each of breeder, foundation and certified seed classes. Certified seed may be grown from breeder or foundation seed. Breeder and foundation seed of `WEEVLCHEK` and certified seed classes. Certified seed may be grown from breeder generation basis with one generation each of breeder, foundation and certified seed, respectively.

`VORIS A-77` alfalfa (*Medicago sativa* L.) (Reg. No. 122) was developed by North American Plant Breeders. Experimental designation was NAPB 51. It was formerly known as `Fame' and then renamed.

`VORIS A-77` is a 97-clone synthetic cultivar similar to `Atlas`, `Olympic`, and `Vango`. It was chosen for lack of root damage by *Phytophthora megasperma* Drechs. f. sp. *megasperma* and Erwin, large branched roots, top vigor and from potato leafhopper yellowing caused by *Eysenrodt* in a field nursery.

`VORIS A-77` is similar to `Saranac` in fall dormancy. It has a high level of resistance to anthracnose caused by *Saranac*, *Corynebacterium trifolii* (Bain and Essary), bacterial wilt (similar to `Vernal`), and measurable resistance to *Phytophthora megasperma* Drechs. f. sp. *megasperma*. It also has a low level of resistance to *Phytophthora root rot*. `VORIS A-77` has been tested in the Central region and is intended for use in this region to reduce dehydration, and greenchop production.

Breeder seed was produced in isolation on ramets of the parental clones. Leafcutter bees (*Megachile rotundata* (F.)) were used for pollination. Seed from one generation each of breeder, foundation and certified seed classes. Certified seed may be grown from breeder seed. A maximum of 2 to 5 harvest years is permitted on stands producing foundation and certified seed, respectively.

`VORIS A-77` was favorably reviewed by the National Alfalfa Variety Review Board in 1978. A plant variety protection certificate was issued in May 1981.

References and Notes

1. Executive vice president and general manager, forage research, R. J. BUKER, S. J. BALUCH, AND M. F. WALTON

VORIS A-77 ALFALFA

`VORIS A-77` alfalfa (*Medicago sativa* L.) (Reg. No. 122) was developed by North American Plant Breeders. Experimental designation was NAPB 51. It was formerly known as `Fame' and then renamed.

`VORIS A-77` is a 97-clone synthetic cultivar to one generation each of breeder, foundation and certified seed, respectively, FFR Cooperative, 4112 East State Road 225, West Lafayette, IN 47906. Registration by Crop Sci. Soc. of Am. Accepted 22 Mar. 1983.

ANSWER ALFALFA

`ANSWER` alfalfa (*Medicago sativa* L.) (Reg. No. 123) was developed by North American Plant Breeders. Experimental designation was NAPB 63.

REFERENCES AND NOTES


ANSWER ALFALFA

`ANSWER` alfalfa (*Medicago sativa* L.) (Reg. No. 123) was developed by North American Plant Breeders. Experimental designation was NAPB 63.