

**A REPORT OF THE
NATIONAL ALFALFA AND MISCELLANEOUS LEGUMES
VARIETY REVIEW BOARD**



ASSOCIATION OF OFFICIAL SEED CERTIFYING AGENCIES

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MARCH 2006



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VARIETY REVIEW BOARD

ASSOCIATION OF OFFICIAL SEED CERTIFYING AGENCIES
(JANUARY 2006)

The Association of Official Seed Certifying Agencies (AOSCA), National Alfalfa and Miscellaneous Legumes Variety Review Board reviewed the following varieties, January 12, 2006, in Las Vegas, NV. The Board recommended the inclusion of these varieties for certification. Seed of these varieties may be certified providing, production meets all standards of the Certifying Agency of the state in which the seed is grown.

All variety information, including descriptions, claims and research data to support any claim was supplied to the National Alfalfa and Miscellaneous Legumes Variety Review Board by the applicants. The National Alfalfa and Miscellaneous Legumes Variety Review Board makes judgment regarding recommendation of varieties for inclusion in certification based on the data supplied. Beyond this, the National Alfalfa and Miscellaneous Legumes Variety Review Board takes no position on the accuracy or truthfulness of any description or claim made by the applicants.

Further information on current procedures, application forms and details regarding the National Alfalfa and Miscellaneous Legumes Variety Review Board can be obtained from:

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Respectfully submitted,

Gregory H. Lowry, Chair National Alfalfa and Miscellaneous Legumes Variety Review Board

2006 AOSCA ALFALFA & MISC LEGUMES NVRB

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30-30Q

1. 30-30 Q is a synthetic variety with 185 parent plants that were selected sequentially for multifoliolate leaf expression and for resistance to Phytophthora root rot, Aphanomyces root rot, and anthracnose. Parent plants were selected from crosses between selections from three-year old Wisconsin nursery selection from various populations. Nursery source plants were derived from various populations that were developed by phenotypic recurrent selection for high relative feed value (using Near Infrared Reflectance Spectroscopy), and for resistance to one or more of the following pests: bacterial wilt, Fusarium Wilt, Verticillium wilt, Phytophthora root rot, Aphanomyces root rot, anthracnose (race 1), Leptosphaerulina leafspot, and stem nematode. Parentage of 30-30 Q traces to the following germplasm sources: 9326, DK 142, Abound, and miscellaneous Cal/West Seeds breeding populations. Breeder seed (Syn.1) was produced under cage isolation near Woodland, California in 2000.

2. 30-30 Q is adapted to the North Central, East Central, and Great Plains areas of the U.S. and is intended for use in the North Central, East Central, Great Plains, and Winterhardy Intermountain areas of the U.S.. 30-30 Q has been tested in Wisconsin, Iowa, Minnesota, Pennsylvania, Ohio, Nebraska, and Indiana.

3. 30-30 Q is a dormant variety with fall dormancy similar to FD class 3 check varieties. Flower color observed in the Syn.2 generation is approximately 100% purple with a trace of variegated, white, cream, and yellow.

4. 30-30 Q has high resistance to anthracnose (race 1), bacterial wilt, Fusarium wilt, Verticillium wilt, Phytophthora root rot, and Aphanomyces root rot (race 1), and resistance to pea aphid and spotted alfalfa aphid. Reaction to the blue alfalfa aphid, stem nematode, and root knot nematode has not been tested.

5. Seed increase of 30-30 Q is on a limited generation basis with two generations each of breeder, foundation, and certified seed classes. Breeder (Syn.1 or Syn.2), foundation (Syn.2 or Syn.3), and certified (Syn.3 or Syn.4) classes will be recognized. Production of Syn.2 breeder or Syn.3 foundation seed requires consent of the breeder. Breeder seed was produced under cage isolation near Woodland, California in 2000. Sufficient foundation seed for the projected life of the variety will be maintained by Cal/West Seeds. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively.

6. Certified seed of 30-30 Q will be available in 2006.

7. No decision has been made regarding Plant Variety Protection.

8. This information can be forwarded to the PVP office.

9. Variety Name: 30-30 Q

Date submitted: November 30, 2005.

Experimental Designation: CW 03015

Double Eagle

1. Double Eagle is a synthetic variety with 200 parent plants that were selected sequentially for high winter hardiness, large deep-set crowns, and multifoliolate leaf expression. Parent plants were selected from five-year old Pennsylvania and three-year old Wisconsin yield trials. Yield trial source varieties were derived from various populations that were developed by phenotypic recurrent selection for high relative feed value (using Near Infrared Reflectance Spectroscopy), and for resistance to one or more of the following pests: bacterial wilt, Fusarium Wilt, Verticillium wilt, Phytophthora root rot, Aphanomyces root rot, anthracnose (race 1), and Leptosphaerulina leafspot. Parentage of Double Eagle traces to the following germplasm sources: Cyclone, WinterKing, 9326, DK 122, FQ315, and miscellaneous Cal/West Seeds breeding populations. Breeder seed (Syn.1) was produced under cage isolation near Woodland, California in 1999.

2. Double Eagle is adapted to the North Central and East Central areas of the U.S. and is intended for use in the North Central, East Central, Great Plains, Moderately Winterhardy Intermountain, and Winterhardy Intermountain areas of the U.S.. Double Eagle has been tested in Wisconsin, Iowa, Minnesota, Pennsylvania, New York, and Nebraska.

3. Double Eagle is a moderately dormant variety with fall dormancy similar to FD class 4 check varieties. Flower color observed in the Syn.2 generation is approximately 100% purple with a trace of variegated, white, cream, and yellow.

4. Double Eagle has high resistance to anthracnose (race 1), bacterial wilt, Fusarium wilt, Verticillium wilt, Phytophthora root rot, and stem nematode, with resistance to Aphanomyces root rot (race 1), spotted alfalfa aphid, and root knot nematode (Meloidogyne hapla), and moderate resistance to pea aphid. Reaction to the blue alfalfa aphid has not been tested.

5. Seed increase of Double Eagle is on a limited generation basis with two generations each of breeder, foundation, and certified seed classes. Breeder (Syn.1 or Syn.2), foundation (Syn.2 or Syn.3), and certified (Syn.3 or Syn.4) classes will be recognized. Production of Syn.2 breeder or Syn.3 foundation seed requires consent of the breeder. Breeder seed was produced under cage isolation near Woodland, California in 1999. Sufficient foundation seed for the projected life of the variety will be maintained by Cal/West Seeds. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively.

6. Certified seed of Double Eagle will be available in 2006.

7. No decision has been made regarding Plant Variety Protection.

8. This information can be forwarded to the PVP office.

9. Variety Name: Double Eagle

Date submitted: November 30, 2005.

Experimental Designation: CW 93007

PGI 801

1. PGI 801 is adapted to and intended for use in the Southwest area of the U.S. and Argentina. CW 801 has been tested in California and Argentina.

2. PGI 801 is a nondormant variety with fall dormancy similar to FD class 8 check varieties. Flower color observed in the Syn.2 generation is greater than 99% purple with a trace of variegated, white, cream, and yellow.

3. PGI 801 has high resistance to anthracnose (race 1), Fusarium wilt, Phytophthora root rot, pea aphid, spotted alfalfa aphid, blue alfalfa aphid, stem nematode, northern root knot nematode (*Meloidogyne hapla*), and southern root knot nematode (*Meloidogyne incognita*), with resistance to Verticillium wilt, and moderate resistance to bacterial wilt. Reaction to *Aphanomyces* root rot (race 1) has not been adequately tested.

4. Seed increase of PGI 801 is on a limited generation basis with one generation of breeder and two generations of the foundation and certified seed classes. Breeder (Syn.1), foundation (Syn.2 or Syn.3), and certified (Syn.3 or Syn.4) classes will be recognized. Production of Syn.3 foundation seed requires consent of the breeder. Breeder seed was produced under cage isolation near Woodland, California in 1995. Sufficient foundation seed for the projected life of the variety will be maintained by Cal/West Seeds. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively.

5. Certified seed of PGI 801 will be available in 2003.

6. No decision has been made regarding Plant Variety Protection.

7. This information can be forwarded to the PVP office.

8. Variety Name:PGI 801

Experimental Designation: PGI 58073

Date NA&MLVRB first accepted this variety: January 2004.

Date previous amendments were accepted:

Date this amendment submitted: November 30, 2005.

PGI 909

1. PGI 909 is adapted to and intended for use in the Southwest area of the U.S., Mexico, and Argentina. CW 909 has been tested in California, Mexico, and Argentina.
2. PGI 909 is a very nondormant variety with fall dormancy similar to FD class 9 check varieties. Flower color observed in the Syn.2 generation is greater than 99% purple with a trace of variegated, white, cream, and yellow.
3. PGI 909 has high resistance to Fusarium wilt, blue alfalfa aphid, and stem nematode, with resistance to anthracnose (race 1), Phytophthora root rot, and spotted alfalfa aphid. Reaction to bacterial wilt, Verticillium wilt, Aphanomyces root rot (race 1), pea aphid, and root knot nematode has not been adequately tested.
4. Seed increase of PGI 909 is on a limited generation basis with one generation of breeder and two generations of the foundation and certified seed classes. Breeder (Syn.1), foundation (Syn.2 or Syn.3), and certified (Syn.3 or Syn.4) classes will be recognized. Production of Syn.3 foundation seed requires consent of the breeder. Breeder seed was produced under open isolation near Tranquility, California in 1999. Sufficient foundation seed for the projected life of the variety will be maintained by Cal/West Seeds. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively.
5. Certified seed of PGI 909 will be available in 2003.
6. No decision has been made regarding Plant Variety Protection.
7. This information can be forwarded to the PVP office.
8. Variety Name: PGI 909

Experimental Designation: CW 99112

Date NA&MLVRB first accepted this variety: January 2004.

Date previous amendments were accepted:

Date this amendment submitted: November 30, 2005.

Escalade

1. Escalade is adapted to the North Central and East Central areas of the U.S. and is intended for use in the North Central, East Central, Great Plains areas of the U.S.. Escalade has been tested in Wisconsin, Minnesota, South Dakota, Iowa, Indiana, Ohio, and Pennsylvania.
2. Escalade is a moderately dormant variety with fall dormancy similar to FD class 5 check varieties. Flower color observed in the Syn.2 generation is greater than 99% purple with a trace of variegated, white, cream, and yellow.
3. Escalade has high resistance to bacterial wilt and Phytophthora root rot, resistance to anthracnose (race 1), Fusarium wilt, Verticillium wilt, Aphanomyces root rot (race 1), and pea aphid, and moderate resistance to spotted alfalfa aphid. Reaction to the blue alfalfa aphid, stem nematode, and root knot nematode has not been tested.
4. Seed increase of Escalade is on a limited generation basis with one generation of breeder and two generations of the foundation and certified seed classes. Breeder (Syn.1), foundation (Syn.2 or Syn.3), and certified (Syn.3 or Syn.4) classes will be recognized. Production of Syn.3 foundation seed requires consent of the breeder. Breeder seed was produced under cage isolation near Woodland, California in 2001. Sufficient foundation seed for the projected life of the variety will be maintained by Cal/West Seeds. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively.
5. Certified seed of Escalade will be available in 2005.
6. No decision has been made regarding Plant Variety Protection.
7. This information can be forwarded to the PVP office.
8. Variety Name: Escalade.

Experimental Designation: CW 15030

Date NA&MLVRB first accepted this variety: January 2005.

Date previous amendments were accepted:

Date this amendment submitted: November 30, 2005.

Labrador

1. Labrador is a synthetic variety with 209 parent plants that were selected sequentially for high winter hardiness, high forage yield, high relative feed value, and multifoliolate leaf expression. Parent plants were selected from selections from three-year old Minnesota yield trials, three-year old Wisconsin yield trials, and from three-year old Wisconsin nursery selections from various populations. Yield trial source varieties and nursery source plants were derived from various populations that were developed by phenotypic recurrent selection for high relative feed value (using Near Infrared Reflectance Spectroscopy), and for resistance to one or more of the following pests: bacterial wilt, Fusarium Wilt, Verticillium wilt, Phytophthora root rot, Aphanomyces root rot, anthracnose (race 1), and Leptosphaerulina leafspot. Parentage of Labrador traces to the following germplasm sources: 9429, Alliant, WinterGold, FQ 315, Big Horn, DK 133, DK 142, 329, 512, 9326, Abound, Power 4.2, Stallion, TMF 421, Trialafalon, Tribute, WinterKing, and miscellaneous Cal/West Seeds breeding populations. Breeder seed (Syn.1) was produced under cage isolation near Woodland, California in 1999.

2. Labrador is adapted to the North Central, East Central, and Great Plains areas of the U.S. and is intended for use in the North Central, East Central, Great Plains, Moderately Winterhardy Intermountain, and Winterhardy Intermountain areas of the U.S.. Labrador has been tested in Wisconsin, Iowa, Minnesota, Pennsylvania, Ohio, and Nebraska.

3. Labrador is a moderately dormant variety with fall dormancy similar to FD class 4 check varieties. Flower color observed in the Syn.2 generation is approximately 100% purple with a trace of variegated, white, cream, and yellow.

4. Labrador has high resistance to anthracnose (race 1), bacterial wilt, Fusarium wilt, Verticillium wilt, Phytophthora root rot, Aphanomyces root rot (race 1), and stem nematode, with resistance to pea aphid, and moderate resistance to root knot nematode (Meloidogyne hapla). Reaction to the spotted alfalfa aphid and blue alfalfa aphid has not been tested.

5. Seed increase of Labrador is on a limited generation basis with two generations each of breeder, foundation, and certified seed classes. Breeder (Syn.1 or Syn.2), foundation (Syn.2 or Syn.3), and certified (Syn.3 or Syn.4) classes will be recognized. Production of Syn.2 breeder or Syn.3 foundation seed requires consent of the breeder. Breeder seed was produced under cage isolation near Woodland, California in 1999. Sufficient foundation seed for the projected life of the variety will be maintained by Cal/West Seeds. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively.

6. Certified seed of Labrador will be available in 2006.

7. No decision has been made regarding Plant Variety Protection.

8. This information can be forwarded to the PVP office.

9. Variety Name: Labrador

Date submitted: November 30, 2005.

Experimental Designation: CW 94006

PGI 424

1. PGI 424 is adapted to and intended for use in the North Central, East Central, and Great Plains areas of the U.S.. PGI 424 has been tested in Wisconsin, Iowa, Minnesota, South Dakota, Nebraska, Pennsylvania, and New York.
2. PGI 424 is a moderately dormant variety with fall dormancy similar to FD class 4 check varieties. Flower color observed in the Syn.2 generation is greater than 99% purple with a trace of variegated, white, cream, and yellow.
3. PGI 424 has high resistance to anthracnose (race 1), bacterial wilt, Fusarium wilt, Phytophthora root rot, and stem nematode, with resistance to pea aphid, Aphanomyces root rot (race 1), and northern root knot nematode (*Meloidogyne hapla*). Reaction to Verticillium wilt, spotted alfalfa aphid, and blue alfalfa aphid has not been tested
4. Seed increase of PGI 424 is on a limited generation basis with one generation of breeder and two generations of the foundation and certified seed classes. Breeder (Syn.1), foundation (Syn.2 or Syn.3), and certified (Syn.3 or Syn.4) classes will be recognized. Production of Syn.3 foundation seed requires consent of the breeder. Breeder seed was produced under cage isolation near Woodland, California in 1999. Sufficient foundation seed for the projected life of the variety will be maintained by Cal/West Seeds. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively.
5. Certified seed of PGI 424 will be available in 2003.
6. No decision has been made regarding Plant Variety Protection.
7. This information can be forwarded to the PVP office.
8. Variety Name: PGI 424

Experimental Designation: CW 94008

Date NA&MLVRB first accepted this variety: January 2004.

Date previous amendments were accepted:

Date this amendment submitted: November 30, 2005.

PGI 437

1. PGI 437 is adapted to the North Central and East Central areas of the U.S. and is intended for use in the North Central, East Central, Great Plains areas of the U.S.. PGI 437 has been tested in Wisconsin, Minnesota, South Dakota, Iowa, Indiana, Ohio, and Pennsylvania.
 2. PGI 437 is a moderately dormant variety with fall dormancy similar to FD class 4 check varieties. Flower color observed in the Syn.2 generation is greater than 99% purple with a trace of variegated, white, cream, and yellow.
 3. PGI 437 has high resistance to anthracnose (race 1) and Fusarium wilt, resistance to bacterial wilt, Verticillium wilt, Phytophthora root rot and, Aphanomyces root rot (race 1), and moderate resistance to pea aphid and spotted alfalfa aphid. Reaction to the blue alfalfa aphid, stem nematode, and root knot nematode has not been tested.
 4. Seed increase of PGI 437 is on a limited generation basis with one generation of breeder and two generations of the foundation and certified seed classes. Breeder (Syn.1), foundation (Syn.2 or Syn.3), and certified (Syn.3 or Syn.4) classes will be recognized. Production of Syn.3 foundation seed requires consent of the breeder. Breeder seed was produced under cage isolation near Woodland, California in 2001. Sufficient foundation seed for the projected life of the variety will be maintained by Cal/West Seeds. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively.
 5. Certified seed of PGI 437 will be available in 2005.
 6. No decision has been made regarding Plant Variety Protection.
 7. This information can be forwarded to the PVP office.
 8. Variety Name: PGI 437
- Experimental Designation: CW 14032
- Date NA&MLVRB first accepted this variety: January 2005.
- Date previous amendments were accepted:
- Date this amendment submitted: November 30, 2005.

PGI 459

1. PGI 459 is a synthetic variety with 180 parent plants selected from two-year old grazing selection plots from various populations that were developed by phenotypic recurrent selection for winter hardiness, leaf disease resistance, high leaf to stem ratio, standability, high relative feed value (using Near Infrared Reflectance Spectroscopy), high forage yield potential, and for resistance to one or more of the following pests: bacterial wilt, Fusarium Wilt, Verticillium wilt, Phytophthora root rot, Aphanomyces root rot, anthracnose (race 1), and Leptosphaerulina leafspot. Parentage of PGI 459 traces to the following germplasm sources: Ascend, GH 717, Tribute, and CW 84028. Breeder seed (Syn.1) was produced under cage isolation near Woodland, California in 2002.
2. PGI 459 is adapted to the North Central, East Central, and Great Plains areas of the U.S. and is intended for use in the North Central, East Central, Great Plains, Moderately Winterhardy Intermountain, and Winterhardy Intermountain areas of the U.S.. PGI 459 has been tested in Wisconsin, Iowa, Minnesota, Pennsylvania, Ohio, Nebraska, Indiana, and South Dakota.
3. PGI 459 is a moderately dormant variety with fall dormancy similar to FD class 4 check varieties. Flower color observed in the Syn.2 generation is approximately 100% purple, with a trace of variegated, white, cream and yellow.
4. PGI 459 has high resistance to anthracnose (race 1), bacterial wilt, Fusarium wilt, Verticillium wilt, and Phytophthora root rot, with resistance to Aphanomyces root rot (race 1), pea aphid, and spotted alfalfa aphid. Reaction to the blue alfalfa aphid, stem nematode, and root knot nematode has not been tested.
5. Seed increase of PGI 459 is on a limited generation basis with two generations each of breeder, foundation, and certified seed classes. Breeder (Syn.1 or Syn.2), foundation (Syn.2 or Syn.3), and certified (Syn.3 or Syn.4) classes will be recognized. Production of Syn.2 breeder or Syn.3 foundation seed requires consent of the breeder. Breeder seed was produced under cage isolation near Woodland, California in 2002. Sufficient foundation seed for the projected life of the variety will be maintained by Cal/West Seeds. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively.
6. Certified seed of PGI 459 will be available in 2006.
7. No decision has been made regarding Plant Variety Protection.
8. This information can be forwarded to the PVP office.
9. Variety Name: PGI 459 Date submitted: November 30, 2005.

Experimental Designation: CW 24044

Power 4.2

1. Power 4.2 is adapted to the North Central and East Central areas of the U.S. and is intended for use in the North Central, East Central, and Great Plains areas of the U.S. Power 4.2 has been tested in Wisconsin, Minnesota, Illinois, Michigan, and Pennsylvania.
2. Power 4.2 is a dormant variety with fall dormancy similar to FD class 4 check varieties. Flower color observed in the Syn.2 generation is approximately 100% purple with a trace of variegated, white, cream, and yellow.
3. Power 4.2 has high resistance to anthracnose (race 1), bacterial wilt, Fusarium wilt, Phytophthora root rot, Aphanomyces root rot (race 1), and stem nematode with resistance to Verticillium wilt, pea aphid, spotted alfalfa aphid, and northern root knot nematode (Meloidogyne hapla). Reaction to blue alfalfa aphid has not been adequately tested.
4. Seed increase of Power 4.2 is on a limited generation basis with one generation of breeder and two generations of the foundation and certified seed classes. Breeder (Syn.1), foundation (Syn.2 or Syn.3), and certified (Syn.3 or Syn.4) classes will be recognized. Production of Syn.3 foundation seed requires consent of the breeder. Breeder seed was produced under cage isolation near Woodland, California in 1998. Sufficient foundation seed for the projected life of the variety will be maintained by Cal/West Seeds. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively.
5. Certified seed of Power 4.2 will be available in 2003.
6. No decision has been made regarding Plant Variety Protection.
7. This information can be forwarded to the PVP office.
8. Variety Name: Power 4.2.

Experimental Designation: CW 84017, CW 83017

Date NA&MLVRB first accepted this variety: January 2003.

Date previous amendments were accepted: January 2004

Date this amendment submitted: November 30, 2005.

Radiant AM

1. Radiant AM is a synthetic variety with 200 parent plants that were selected sequentially for multifoliolate leaf expression and for resistance to *Phytophthora* root rot, *Aphanomyces* root rot, and anthracnose. Parent plants were selected from crosses between selections from three-year old Wisconsin nursery selection from various populations. Nursery source plants were derived from various populations that were developed by phenotypic recurrent selection for high relative feed value (using Near Infrared Reflectance Spectroscopy), and for resistance to one or more of the following pests: bacterial wilt, Fusarium Wilt, Verticillium wilt, *Phytophthora* root rot, *Aphanomyces* root rot, anthracnose (race 1), *Leptosphaerulina* leafspot, and stem nematode. Parentage of Radiant AM traces to the following germplasm sources: 512 (11), 9326 (3%), DK 142 (6%), Stallion (3%), WinterKing (3%), and miscellaneous Cal/West Seeds breeding populations (74%). Breeder seed (Syn.1) was produced under cage isolation near Woodland, California in 2000.

2. Radiant AM is adapted to the North Central, East Central, and Great Plains areas of the U.S. and is intended for use in the North Central, East Central, Great Plains, Moderately Winterhardy Intermountain, and Winterhardy Intermountain areas of the U.S.. Radiant AM has been tested in Wisconsin, Iowa, Minnesota, Pennsylvania, Ohio, Nebraska, and Indiana.

3. Radiant AM is a moderately dormant variety with fall dormancy similar to FD class 4 check varieties. Flower color observed in the Syn.2 generation is approximately 100% purple with a trace of variegated, white, cream, and yellow.

4. Radiant AM has high resistance to anthracnose (race 1), bacterial wilt, Fusarium wilt, Verticillium wilt, *Phytophthora* root rot, *Aphanomyces* root rot (race 1), and stem nematode, resistance to pea aphid, and moderate resistance to root knot nematode (*Meloidogyne* hapla). Reaction to the spotted alfalfa aphid and blue alfalfa aphid has not been tested.

5. Seed increase of Radiant AM is on a limited generation basis with two generations each of breeder, foundation, and certified seed classes. Breeder (Syn.1 or Syn.2), foundation (Syn.2 or Syn.3), and certified (Syn.3 or Syn.4) classes will be recognized. Production of Syn.2 breeder or Syn.3 foundation seed requires consent of the breeder. Breeder seed was produced under cage isolation near Woodland, California in 2000. Sufficient foundation seed for the projected life of the variety will be maintained by Cal/West Seeds. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively.

6. Certified seed of Radiant AM will be available in 2006.

7. No decision has been made regarding Plant Variety Protection.

8. This information can be forwarded to the PVP office.

9. Variety Name: Radiant AM Date submitted: November 30, 2005.

Experimental Designation: CW 04023

Shepherd

1. Shepherd is adapted to and intended for use in the North Central, East Central, and Great Plains areas of the U.S.. Shepherd has been tested in Wisconsin, Iowa, Indiana, Ohio, Pennsylvania, and Nebraska.
2. Shepherd is a moderately dormant variety with fall dormancy similar to FD class 5 check varieties. Flower color observed in the Syn.2 generation is greater than 99% purple with a trace of variegated, white, cream, and yellow.
3. Shepherd has high resistance to anthracnose (race 1), bacterial wilt, Fusarium wilt, Verticillium wilt, Phytophthora root rot, and stem nematode, with resistance to Aphanomyces root rot (race 1), pea aphid, spotted alfalfa aphid, and northern root knot nematode (Meloidogyne hapla). Reaction to the blue alfalfa aphid has not been tested.
4. Seed increase of Shepherd is on a limited generation basis with one generation of breeder and two generations of the foundation and certified seed classes. Breeder (Syn.1), foundation (Syn.2 or Syn.3), and certified (Syn.3 or Syn.4) classes will be recognized. Production of Syn.3 foundation seed requires consent of the breeder. Breeder seed was produced under cage isolation near Woodland, California in 2000. Sufficient foundation seed for the projected life of the variety will be maintained by Cal/West Seeds. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively.
5. Certified seed of Shepherd will be available in 2005.
6. No decision has been made regarding Plant Variety Protection.
7. This information can be forwarded to the PVP office.
8. Variety Name: Shepherd.

Experimental Designation: CW 05009

Date NA&MLVRB first accepted this variety: January 2005.

Date previous amendments were accepted:

Date this amendment submitted: November 30, 2005.

CW 02001

1. CW 02001 is a synthetic variety with 114 parent plants that were selected sequentially for high winter hardiness, high forage yield, high relative feed value, and multifoliolate leaf expression. Parent plants were selected from selections from five-year old Pennsylvania, three-year old Minnesota, three-year old Wisconsin yield trials, and from three-year old Wisconsin nursery selections from various populations. Yield trial source varieties and nursery source plants were derived from various populations that were developed by phenotypic recurrent selection for high relative feed value (using Near Infrared Reflectance Spectroscopy), and for resistance to one or more of the following pests: bacterial wilt, Fusarium Wilt, Verticillium wilt, Phytophthora root rot, Aphanomyces root rot, anthracnose (race 1), and Leptosphaerulina leafspot. Parentage of CW 02001 traces to the following germplasm sources: TMF 421, Abound, Gold Plus, Sprint, and miscellaneous Cal/West Seeds breeding populations. Breeder seed (Syn.1) was produced under cage isolation near Woodland, California in 2000.

2. CW 02001 is adapted to the North Central and East Central areas of the U.S. and is intended for use in the North Central, East Central, and Winterhardy Intermountain areas of the U.S.. CW 02001 has been tested in Wisconsin and Iowa.

3. CW 02001 is a dormant variety with fall dormancy similar to FD class 2 check varieties. Flower color observed in the Syn.2 generation is approximately 93% purple, 1% variegated, 2% cream, and 4% yellow, with a trace of white.

4. CW 02001 has high resistance to anthracnose (race 1), bacterial wilt, Fusarium wilt, Verticillium wilt, and Phytophthora root rot, resistance to Aphanomyces root rot (race 1) and spotted alfalfa aphid, and moderate resistance to pea aphid. Reaction to the blue alfalfa aphid, stem nematode, and root knot nematode has not been tested.

5. Seed increase of CW 02001 is on a limited generation basis with two generations each of breeder, foundation, and certified seed classes. Breeder (Syn.1 or Syn.2), foundation (Syn.2 or Syn.3), and certified (Syn.3 or Syn.4) classes will be recognized. Production of Syn.2 breeder or Syn.3 foundation seed requires consent of the breeder. Breeder seed was produced under cage isolation near Woodland, California in 2000. Sufficient foundation seed for the projected life of the variety will be maintained by Cal/West Seeds. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively.

6. Certified seed of CW 02001 will be available in 2006.

7. No decision has been made regarding Plant Variety Protection.

8. This information can be forwarded to the PVP office.

9. Variety Name:

Date submitted: November 30, 2005.

Experimental Designation: CW 02001

CW 02012

1. CW 02012 is a synthetic variety with 200 parent plants that were selected sequentially for multifoliolate leaf expression and for resistance to Phytophthora root rot, Aphanomyces root rot, and anthracnose. Parent plants were selected from three-year old Minnesota and Wisconsin yield trials. Yield trial source varieties were derived from various populations that were developed by phenotypic recurrent selection for high relative feed value (using Near Infrared Reflectance Spectroscopy), and for resistance to one or more of the following pests: bacterial wilt, Fusarium Wilt, Verticillium wilt, Phytophthora root rot, Aphanomyces root rot, anthracnose (race 1), and Leptosphaerulina leafspot. Parentage of CW 02012 traces to the following germplasm sources: UltraLac, Chimo, and miscellaneous Cal/West Seeds breeding populations (29%). Breeder seed (Syn.1) was produced under cage isolation near Woodland, California in 2000.
2. CW 02012 is adapted to the North Central and East Central areas of the U.S. and is intended for use in the North Central, East Central, and Winterhardy Intermountain areas of the U.S.. CW 02012 has been tested in Wisconsin and Iowa.
3. CW 02012 is a dormant variety with fall dormancy similar to FD class 2 check varieties. Flower color observed in the Syn.2 generation is approximately 94% purple, 2% variegated, 2% cream, and 2% yellow, with a trace of white.
4. CW 02012 has high resistance to anthracnose (race 1), bacterial wilt, Fusarium wilt, Verticillium wilt, Phytophthora root rot, and spotted alfalfa aphid, resistance to Aphanomyces root rot (race 1), and moderate resistance to pea aphid. Reaction to the blue alfalfa aphid, stem nematode, and root knot nematode has not been tested.
5. Seed increase of CW 02012 is on a limited generation basis with two generations each of breeder, foundation, and certified seed classes. Breeder (Syn.1 or Syn.2), foundation (Syn.2 or Syn.3), and certified (Syn.3 or Syn.4) classes will be recognized. Production of Syn.2 breeder or Syn.3 foundation seed requires consent of the breeder. Breeder seed was produced under cage isolation near Woodland, California in 2000. Sufficient foundation seed for the projected life of the variety will be maintained by Cal/West Seeds. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively.
6. Certified seed of CW 02012 will be available in 2006.
7. No decision has been made regarding Plant Variety Protection.
8. This information can be forwarded to the PVP office.
9. Variety Name: _____ Date submitted: November 30, 2005.

Experimental Designation: CW 02012

CW 13014

1. CW 13014 is a synthetic variety with 225 parent plants that were selected sequentially for multifoliolate leaf expression and for resistance to Phytophthora root rot, Aphanomyces root rot, and anthracnose. Parent plants were selected from crosses between selections from two and three-year old Wisconsin nursery selection from various populations with high resistance to stem nematode. Nursery source plants were derived from various populations that were developed by phenotypic recurrent selection for high relative feed value (using Near Infrared Reflectance Spectroscopy), and for resistance to one or more of the following pests: bacterial wilt, Fusarium Wilt, Verticillium wilt, Phytophthora root rot, Aphanomyces root rot, anthracnose (race 1), Leptosphaerulina leafspot, and stem nematode. Parentage of CW 13014 traces to the following germplasm sources: WinterGold, Extreme, AlfaStar II, Alliant, Chimo, Foremost, Prairie Max, Radiant, and miscellaneous Cal/West Seeds breeding populations. Breeder seed (Syn.1) was produced under cage isolation near Woodland, California in 2001.
2. CW 13014 is adapted to the North Central area of the U.S. and is intended for use in the North Central, East Central, and Winterhardy Intermountain areas of the U.S.. CW 13014 has been tested in Wisconsin and South Dakota.
3. CW 13014 is a moderately dormant variety with fall dormancy similar to FD class 4 check varieties. Flower color observed in the Syn.2 generation is approximately 100% purple with a trace of variegated, white, cream, and yellow.
4. CW 13014 has high resistance to anthracnose (race 1), bacterial wilt, Verticillium wilt, and Phytophthora root rot with resistance to Fusarium wilt, Aphanomyces root rot (race 1), spotted alfalfa aphid, stem nematode, and northern root knot nematode. Reaction to the pea aphid and blue alfalfa aphid has not been tested.
5. Seed increase of CW 13014 is on a limited generation basis with two generations each of breeder, foundation, and certified seed classes. Breeder (Syn.1 or Syn.2), foundation (Syn.2 or Syn.3), and certified (Syn.3 or Syn.4) classes will be recognized. Production of Syn.2 breeder or Syn.3 foundation seed requires consent of the breeder. Breeder seed was produced under cage isolation near Woodland, California in 2001. Sufficient foundation seed for the projected life of the variety will be maintained by Cal/West Seeds. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively.
6. Certified seed of CW 13014 will be available in 2006.
7. No decision has been made regarding Plant Variety Protection.
8. This information can be forwarded to the PVP office.
9. Variety Name: _____ Date submitted: November 30, 2005.

Experimental Designation: CW 13014

CW 24027

1. CW 24027 is a synthetic variety with 230 parent plants that were selected sequentially for multifoliolate leaf expression and for resistance to Phytophthora root rot, Aphanomyces root rot, and anthracnose. Parent plants were selected from five-year old Pennsylvania yield trials, three-year old Illinois yield trials, three-year old Minnesota yield trials, and three-year old Wisconsin yield trials. Yield trial source varieties were derived from various populations that were developed by phenotypic recurrent selection for high relative feed value (using Near Infrared Reflectance Spectroscopy), and for resistance to one or more of the following pests: bacterial wilt, Fusarium Wilt, Verticillium wilt, Phytophthora root rot, Aphanomyces root rot, anthracnose (race 1), and Leptosphaerulina leafspot. Parentage of CW 24027 traces to the following germplasm sources: Alliant, GH 700, WinterGold, and miscellaneous Cal/West Seeds breeding populations. Breeder seed (Syn.1) was produced under cage isolation near Woodland, California in 2002.

2. CW 24027 is adapted to the North Central and East Central areas of the U.S. and is intended for use in the North Central, East Central, Great Plains, Moderately Winterhardy Intermountain, and Winterhardy Intermountain areas of the U.S.. CW 24027 has been tested in Wisconsin, Iowa, Minnesota, and South Dakota.

3. CW 24027 is a moderately dormant variety with fall dormancy similar to FD class 4 check varieties. Flower color observed in the Syn.2 generation is approximately 100% purple with a trace of variegated, white, cream, and yellow.

4. CW 24027 has high resistance to anthracnose (race 1), bacterial wilt, Fusarium wilt, Verticillium wilt, Phytophthora root rot, and Aphanomyces root rot (race 1), with resistance to pea aphid. Reaction to the spotted alfalfa aphid, blue alfalfa aphid, stem nematode, and root knot nematode has not been tested.

5. Seed increase of CW 24027 is on a limited generation basis with two generations each of breeder, foundation, and certified seed classes. Breeder (Syn.1 or Syn.2), foundation (Syn.2 or Syn.3), and certified (Syn.3 or Syn.4) classes will be recognized. Production of Syn.2 breeder or Syn.3 foundation seed requires consent of the breeder. Breeder seed was produced under cage isolation near Woodland, California in 2002. Sufficient foundation seed for the projected life of the variety will be maintained by Cal/West Seeds. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively.

6. Certified seed of CW 24027 will be available in 2006.

7. No decision has been made regarding Plant Variety Protection.

8. This information can be forwarded to the PVP office.

9. Variety Name:

Date submitted: November 30, 2005.

Experimental Designation: CW 24027

CW 24033

1. CW 24033 is a synthetic variety with 240 parent plants derived from three-year old Wisconsin nursery selections from various populations for one or more of the following traits: high forage dry matter yield, high milk per acre using Milk2000, high relative feed value using Near Infrared Reflectance Spectroscopy, and high rumen undegradable protein using Near Infrared Reflectance Spectroscopy. The nursery source plants were derived from various populations that were developed by phenotypic recurrent selection for high winter hardiness, high relative feed value (using Near Infrared Reflectance Spectroscopy), and for resistance to one or more of the following pests: bacterial wilt, Fusarium Wilt, Verticillium wilt, Phytophthora root rot, Aphanomyces root rot, anthracnose (race 1), and Leptosphaerulina leafspot. Parentage of CW 24033 traces to the following germplasm sources: 9429, Alliant, FQ 315, WinterGold, and miscellaneous Cal/West Seeds breeding populations. Breeder seed (Syn.1) was produced under cage isolation near Woodland, California in 2002.

2. CW 24033 is adapted to the North Central and East Central areas of the U.S. and is intended for use in the North Central, East Central, Great Plains, Moderately Winterhardy Intermountain, and Winterhardy Intermountain areas of the U.S.. CW 24033 has been tested in Wisconsin, Iowa, and South Dakota.

3. CW 24033 is a moderately dormant variety with fall dormancy similar to FD class 4 check varieties. Flower color observed in the Syn.2 generation is approximately 96% purple, 1% variegated, 1% white, 1% cream and 1% yellow.

4. CW 24033 has high resistance to anthracnose (race 1), bacterial wilt, Fusarium wilt, Verticillium wilt, and Phytophthora root rot, with resistance to Aphanomyces root rot (race 1). Reaction to the pea aphid, spotted alfalfa aphid, blue alfalfa aphid, stem nematode, and root knot nematode has not been tested.

5. Seed increase of CW 24033 is on a limited generation basis with two generations each of breeder, foundation, and certified seed classes. Breeder (Syn.1 or Syn.2), foundation (Syn.2 or Syn.3), and certified (Syn.3 or Syn.4) classes will be recognized. Production of Syn.2 breeder or Syn.3 foundation seed requires consent of the breeder. Breeder seed was produced under cage isolation near Woodland, California in 2002. Sufficient foundation seed for the projected life of the variety will be maintained by Cal/West Seeds. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively.

6. Certified seed of CW 24033 will be available in 2006.

7. No decision has been made regarding Plant Variety Protection.

8. This information can be forwarded to the PVP office.

9. Variety Name:

Date submitted: November 30, 2005.

Experimental Designation: CW 24033

CW 25006

1. CW 25006 is a synthetic variety with 39 parent plants selected sequentially for high winter hardiness, high forage yield, high relative feed value, and multifoliolate leaf expression; 9 parent plants were from three-year old Wisconsin nursery selections from various populations; 30 parent plants were selected from five-year old Pennsylvania yield trials, three-year old Illinois yield trials, three-year old Minnesota yield trials, and three-year old Wisconsin yield trials. Yield trial and nursery source varieties were derived from various populations that were developed by phenotypic recurrent selection for high relative feed value (using Near Infrared Reflectance Spectroscopy), and for resistance to one or more of the following pests: bacterial wilt, Fusarium Wilt, Verticillium wilt, Phytophthora root rot, Aphanomyces root rot, anthracnose (race 1), and Leptosphaerulina leafspot. Parentage of CW 25006 traces to the following germplasm sources: Tribute, Escalade, Royal Harvest, WinterGold, and miscellaneous Cal/West Seeds breeding populations. Breeder seed (Syn.1) was produced under cage isolation near Woodland, California in 2002.
2. CW 25006 is adapted to the North Central and East Central areas of the U.S. and is intended for use in the North Central, East Central, Great Plains, Moderately Winterhardy Intermountain, and Winterhardy Intermountain areas of the U.S.. CW 25006 has been tested in Wisconsin, Iowa, and South Dakota.
3. CW 25006 is a moderately dormant variety with fall dormancy similar to FD class 5 check varieties. Flower color observed in the Syn.2 generation is approximately 99% purple and 1% variegated, with a trace of white, cream and yellow.
4. CW 25006 has high resistance to anthracnose (race 1), bacterial wilt, Fusarium wilt, Verticillium wilt, and Phytophthora root rot with resistance to Aphanomyces root rot (race 1). Reaction to the blue alfalfa aphid, pea aphid, spotted alfalfa aphid, stem nematode, and root knot nematode has not been tested.
5. Seed increase of CW 25006 is on a limited generation basis with two generations each of breeder, foundation, and certified seed classes. Breeder (Syn.1 or Syn.2), foundation (Syn.2 or Syn.3), and certified (Syn.3 or Syn.4) classes will be recognized. Production of Syn.2 breeder or Syn.3 foundation seed requires consent of the breeder. Breeder seed was produced under cage isolation near Woodland, California in 2002. Sufficient foundation seed for the projected life of the variety will be maintained by Cal/West Seeds. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively.
6. Certified seed of CW 25006 will be available in 2006.
7. No decision has been made regarding Plant Variety Protection.
8. This information can be forwarded to the PVP office.
9. Variety Name: _____ Date submitted: November 30, 2005.

Experimental Designation: CW 25006

CW93013

1. CW 93013 is a synthetic variety with 215 parent plants that were selected sequentially for multifoliolate leaf expression and for resistance to Phytophthora root rot, Aphanomyces root rot, and anthracnose. Parent plants were selected from crosses between selections from three-year old Wisconsin nursery selection from various populations. Nursery source plants were derived from various populations that were developed by phenotypic recurrent selection for high relative feed value (using Near Infrared Reflectance Spectroscopy), and for resistance to one or more of the following pests: bacterial wilt, Fusarium Wilt, Verticillium wilt, Phytophthora root rot, Aphanomyces root rot, anthracnose (race 1), and Leptosphaerulina leafspot. Parentage of CW 93013 traces to the following germplasm sources: FQ 315, Sprint, 512, 9326, DK 142, Gold Plus, Maximum I, Nemesis, WinterGold, WinterKing, and miscellaneous Cal/West Seeds breeding populations. Breeder seed (Syn.1) was produced under cage isolation near Woodland, California in 1999.
2. CW 93013 is adapted to the North Central, East Central, and Great Plains areas of the U.S. and is intended for use in the North Central, East Central, Great Plains, and Winterhardy Intermountain areas of the U.S.. CW 93013 has been tested in Wisconsin, Iowa, Minnesota, Pennsylvania, and Nebraska.
3. CW 93013 is a dormant variety with fall dormancy similar to FD class 3 check varieties. Flower color observed in the Syn.2 generation is approximately 100% purple with a trace of variegated, white, cream, and yellow.
4. CW 93013 has high resistance to anthracnose (race 1), bacterial wilt, Fusarium wilt, Verticillium wilt, Phytophthora root rot, and Aphanomyces root rot (race 1), with resistance to spotted alfalfa aphid and moderate resistance to pea aphid. Reaction to the blue alfalfa aphid, stem nematode, and root knot nematode has not been tested.
5. Seed increase of CW 93013 is on a limited generation basis with two generations each of breeder, foundation, and certified seed classes. Breeder (Syn.1 or Syn.2), foundation (Syn.2 or Syn.3), and certified (Syn.3 or Syn.4) classes will be recognized. Production of Syn.2 breeder or Syn.3 foundation seed requires consent of the breeder. Breeder seed was produced under cage isolation near Woodland, California in 1999. Sufficient foundation seed for the projected life of the variety will be maintained by Cal/West Seeds. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively.
6. Certified seed of CW 93013 will be available in 2006.
7. No decision has been made regarding Plant Variety Protection.
8. This information can be forwarded to the PVP office.
9. Variety Name: _____ Date submitted: November 30, 2005.

Experimental Designation: CW 93013

NY0131

1. NY0131 is the result of a three-way population cross. The initial cross was between two plant populations: Seedway 9558 and a population comprised of germplasm related to Iroquois, Saranac AR, Oneida VR, and Vertus, followed by phenotypic recurrent selection for multiple disease resistance and selection in the field for plant vigor, freedom of diseases, resistance to lodging, and lower forage neutral detergent fiber and acid detergent fiber concentrations. This population cross was done by hand as full-sib crosses between 100 clones per population. This population cross was crossed with a population derived from Magnum III after selection for resistance to anthracnose (Race 1) (2 cycles), Verticillium wilt (2 cycles), and Phytophthora root rot (1 cycle). Full-sib crosses between the populations were made by hand (74 clones per population). Seed of the Syn. 1 generation was a bulk of equal weight of seed per cross. The Syn. 2 generation (breeder seed) was produced in 2001.
2. NY0131 is adapted and intended for use in the North Central and East Central USA for hay, haylage, greenchop, and dehydration. It has been tested throughout New York and in Pennsylvania.
3. NY0131 is a dormant variety with fall dormancy similar to the FD3 check. Its flower color is 93% purple and 7% variegated, and pod shape is 96% tightly coiled and 4% loosely coiled in the Syn. 2 generation.
4. NY0131 has high resistance to Fusarium wilt, Verticillium wilt, and anthracnose (Race 1); resistance to bacterial wilt and Phytophthora root rot; and low resistance to Aphanomyces root rot (Race 1). It has not been tested for resistances to pea aphid, spotted alfalfa aphid, blue alfalfa aphid, root knot nematode, and stem nematode.
5. In 2001, breeder seed (Syn. 2) was produced under cage isolation in Caldwell, ID, in sufficient quantity to last the lifetime of the variety. This seed is maintained under controlled environmental conditions by the Department of Plant Breeding and Genetics at Cornell University. Foundation seed (Syn. 3) may be produced from breeder seed in Northwest USA on stands no more than 3 years old unless by consent of the breeder. Certified seed (Syn. 3 or 4) may be produced from breeder or foundation seed on stands no more than 6 years old.
6. Pending official certification, certified seed will first be marketed in 2007.
7. Application for Plant Variety Protection will not be made.
8. This information may be forwarded to the PVP office.
9. Variety Name: _____ Date submitted: December 1, 2005

Experimental designations: NY0131

Cisco

1. Cisco is a 51 clone synthetic variety. Twenty six parent plants were selected from the variety Sutter out of forage yield plots near Clinton, WI. These parent plants were evaluated for bacterial wilt, Fusarium wilt, leaf disease, crown health and herbage growth. Twenty five parent plants were selected out of disease nurseries for resistance to Phytophthora root rot and anthracnose(Race 1). These parent plants trace back to UC Cibola, WL457 and D/S experimentals of an unknown origin. The percent of germplasm sources are: Turkistan(10), Chilean(4), Peruvian(1) and Unknown(85).
 2. Cisco is adapted in the Southwestern Region of the United States and intended for use in the Southern and Central regions of the United States. The states where it has been tested are California and Wisconsin.
 3. Cisco is a moderately dormant, fall dormancy 6 variety. Flower color in the Syn. 2 generation is 95% purple, 5% variegated with trace amounts of cream, white and yellow.
 4. Cisco has high resistance to Fusarium wilt, Phytophthora root rot, spotted alfalfa aphid, northern root-knot nematode (*M. halpa*), stem nematode; resistance to southern root-knot nematode (*M. incognita*), bacterial wilt, pea aphid, anthracnose(Race 1); moderate resistance to Aphanomyces root rot(Race 1) and Verticillium wilt. It has not been tested for blue alfalfa aphid.
 5. Breeder seed was produced from bulking seed of parent plants planted in field isolation to produce Syn. 1 seed near Sloughhouse, CA in 1991. Foundation seed (Syn.2) was produced from Breeder seed and Certified seed (Syn. 3) from Foundation seed. One generation each of Breeder, Foundation and Certified seed classes are recognized. A maximum of three harvest years each is permitted on stands producing Breeder and Foundation seed with five years for Certified seed. Sufficient Breeder seed for the projected life of the variety will be maintained by Dairyland Research International.
 6. Certified Seed was available fall of 1999.
 7. Application for the Plant Variety Protection is undecided.
 8. Information in the NAVRB application can be forwarded to the PVP office.
 9. Variety name: Cisco
- Experimental designations: 962958
- Date NA&MLVRB first accepted this variety: November 25, 1998
- Dates previous amendments were accepted: November 29, 1999
- Date this amendment was submitted: November 23, 2005

HybriForce®-620

1. HybriForce®-620 is a 75-95% hybrid alfalfa variety. Parent clones were selected out of forage yield plots and/or disease nurseries. These parent plants were tested for male sterility, maintaining and restoration ability. The parent plants were also progeny tested for one or more of the following traits: forage yield, stand persistence, forage quality, resistance to bacterial wilt, Fusarium wilt, Phytophthora root rot, anthracnose (Race 1), Verticillium wilt and Aphanomyces root rot (Race 1).

2. HybriForce®-620 is adapted to the Southwest and North Central Region of the United States and intended for use across the Southwest Region of the United States. The states where it has been tested are California and Wisconsin.

3. HybriForce®-620 is a moderately dormant variety similar to the fall dormancy 6 check. HybriForce®-620 is moderately winter hardy similar to the winter survival 3 check. Flower color of the male line in the Syn. 2 generation is 90% purple, 10% variegated with trace amounts of cream, white and yellow. Flower color of the female line in the F1 generation is 90% purple, 10% variegated with trace amounts of cream, white and yellow.

4. HybriForce®-620 has high resistance to bacterial wilt, Fusarium wilt, Phytophthora root rot, stem nematode, northern root-knot nematode (*M. hapla*); resistance to anthracnose (Race 1), Verticillium wilt southern root-knot nematode (*M. incognita*); and moderate resistance to pea aphid. HybriForce®-620 has not been tested for resistance to blue alfalfa aphid, spotted alfalfa aphid and Aphanomyces root rot (Race 1).

5. Female Breeder seed was produced by crossing the cytoplasmic male sterile line (A) by the maintainer line (B) in field isolation near Sloughhouse, CA in 1998-2000. Female seed was kept separate across production years. Male Breeder seed (Syn. 1) was produced in field isolation near Sloughhouse in 1999. Male Foundation seed (Syn. 2) was produced from Breeder seed. Hybrid seed (F1) was produced from crossing female seed by either Breeder or Foundation male seed. Two generations of male seed are recognized. A maximum of three harvest years each is permitted on stands producing Breeder and Foundation seed with five years for Certified seed. Dairyland Research International will maintain sufficient seed for the projected life of the variety.

6. Certified Seed will be available fall of 2005.

7. Application for the Plant Variety Protection is undecided.

8. Information in the NAVRB application can be forwarded to the PVP office.

9. Variety name: HybriForce®-620 Date Submitted November 23, 2005

Experimental designations: DS187

Magna 788

1. Magna 788 is a 392 clone synthetic variety. Parent plants were selected from forage yield plots and observation nurseries for visual plant health and resistance to the complex of root rotting diseases across Argentina. Breeder seed (Syn. 1) was grown in isolation cages near Tunyan, Mendoza, Argentina in 2000/2001.
2. Magna 788 is adapted to the Southwest Region of the United States and intended for use across the Southwest Region of the United States. The state where it has been tested is California.
3. Magna 788 is a non dormant variety similar to the fall dormancy 7 check. Flower color of the in the Syn. 2 generation is 99% purple, 1% variegated with trace amounts of cream and white.
4. Magna 788 has high resistance to Phytophthora root rot, northern root-knot nematode (*M. hapla*), southern root knot nematode (*M. incognita*); resistance to anthracnose (Race 1), stem nematode and pea aphid. Magna 788 has not been tested for resistance to bacterial wilt, Fusarium wilt, Verticillium wilt, blue alfalfa aphid, spotted alfalfa aphid and Aphanomyces root rot (Race1).
5. Breeder seed (Syn. 1) was produced within cage isolation near Tunyan, Mendoza, Argentina in 2000/2001. Seed classes will be breeder, foundation seed (Syn. 2 or 3) and certified seed (Syn. 3,4 or 5). A second generation of foundation seed is at the discretion of Dairyland Seed. A maximum of three years each is permitted on stands producing Breeder and Foundation seed with five years for certified seed. Sufficient Breeder seed for the projected life of the variety will be maintained by Dairyland Research International.
6. Certified Seed will be available fall of 2005.
7. Application for the Plant Variety Protection is undecided.
8. Information in the NAVRB application can be forwarded to the PVP office.
9. Variety name: Magna 788 Date Submitted November 23, 2005

Experimental designations: DS788

Magna 804

1. Magna 804 is a 38 clone synthetic variety resulting from a strain cross of two elite Dairyland populations. Sixteen plants comprising the first population were selected out of 3 year old forage yield plots. The second population of 22 plants were selected for visual forage quality characteristics (leafiness and stem size), plant vigor and seed production from nurseries.
2. Magna 804 is adapted and intended for use in the Southwestern Region of the United States. The state and country where it has been tested is California of the United States
3. Magna 804 is a non-dormant variety similar to the fall dormancy 8 check. Flower color in the Syn. 2 generation is 95% purple, 5% variegated with trace amounts of cream, white and yellow.
4. Magna 804 has high resistance to Phytophthora root rot, pea aphid, stem nematode, northern root knot nematode (*M. hapla*); resistance to southern root knot nematode (*M. incognita*) and moderate resistance to anthracnose (Race 1). Magna 804 has not been tested against Aphanomyces root rot, Fusarium wilt, bacterial wilt, Verticillium wilt, spotted alfalfa aphid and blue alfalfa aphid.
5. Pre-Breeder seed (Syn. 1) was produced by bulking seed of 16 parent plants dug from forage yield plots and separately bulking seed from 22 parent plants selected for visual forage quality characteristics. Both Pre-Breeder seed lots were grown in field isolation near Sloughouse, CA in 1994. Breeder seed (Syn2) of the two populations were grown separately in field isolations near Sloughouse, CA in 1995. Foundation seed (Syn3) was produced from a mixture of equal amount of both breeder seed lots. Certified seed may be either Syn. 3 or 4 from Breeder or Foundation seed. A maximum of three harvest years each is permitted on stands producing Breeder and Foundation seed with five years for certified seed. Dairyland Research International will maintain sufficient Breeder seed for the projected life of the variety.
6. Certified Seed will be available March 2005.
7. Application for the Plant Variety Protection is undecided.
8. Variety name: Magna 804

Experimental designations: 70002, 40021, DS784

Date Submitted: November 23, 2005

Magna 995

1. Magna 995 is a 24 clone synthetic variety. Parent plants were selected for plant vigor and root health from forage yield plots from the University of California Research Centers in West Side, Kearney and Imperial Valley.
2. Magna 995 is adapted and intended for use across the Southwest Region of the United States. The state where it has been tested is California.
3. Magna 995 is a non dormant variety similar to the fall dormancy 9 check. Flower color of the male line in the Syn. 2 generation is 99% purple, 1% variegated with trace amounts of cream and white.
4. Magna 995 has high resistance to Phytophthora root rot, stem nematode, northern root-knot nematode (*M. hapla*); resistance to pea aphid, southern root-knot nematode (*M. incognita*); and moderate resistance to anthracnose (Race 1). Magna 995 has not been tested for resistance to blue alfalfa aphid, spotted alfalfa aphid *Aphanomyces* root rot (Race1), bacterial wilt, Fusarium wilt and Verticillium wilt.
5. Breeder seed (Syn. 1) was produced within field isolation near Sloughouse, CA in the year 2000. Seed classes will be breeder, foundation seed (Syn. 2 or 3) and certified seed (Syn. 3,4 or 5). A second generation of foundation seed is at the discretion of Dairyland Seed. A maximum of three years each is permitted on stands producing Breeder and Foundation seed with five years for certified seed. Sufficient Breeder seed for the projected life of the variety will be maintained by Dairyland Research International.
6. Certified Seed will be available fall of 2005.
7. Application for the Plant Variety Protection is undecided.
8. Information in the NAVRB application can be forwarded to the PVP office.
9. Variety name: Magna 995 Date Submitted November 23, 2005

Experimental designations: DS995

DS288

1. DS288 is a three clone 75-95% hybrid alfalfa variety. Parent clones were selected out of forage yield plots and/or disease nurseries. These parent plants were tested for male sterility, maintaining and restoration ability. The parent plants were selected for one or more of the following traits: forage yield, stand persistence, forage quality, resistance to: Phytophthora root rot, anthracnose (Race 1) and Verticillium wilt.
2. DS288 is adapted to the Southwest Region of the United States and intended for use across the Southwest Region of the United States. The state where it has been tested is California.
3. DS288 is a non-dormant variety similar to the fall dormancy 8 check. Flower color of the male line in the Syn. 2 generation is 100% purple, with trace amounts of variegated, cream and white. Flower color of the female line in the F1 generation is 100% purple, with trace amounts of variegated, cream and white.
4. DS288 has high resistance to anthracnose (Race 1), stem nematode, northern root-knot nematode (*M. hapla*); resistance to Phytophthora root rot and southern root knot nematode (*M. incognita*) and moderate resistance to pea aphid. DS288 has not been tested for resistance to blue alfalfa aphid, spotted alfalfa aphid, *Aphanomyces* root rot (Race1), bacterial wilt, Fusarium wilt and Verticillium wilt.
5. Female Breeder seed was produced by crossing the cytoplasmic male sterile line (A) by the maintainer line (B) in field isolation near Sloughhouse, CA in 2000-2002. Female seed was kept separate across production years. Male Breeder seed (Syn. 1) was produced in field isolation near Sloughhouse in 2000. Male Foundation seed (Syn. 2) was produced from Breeder seed. Hybrid seed (F1) was produced from crossing female seed by either Breeder or Foundation male seed. Two generations of male seed are recognized. A maximum of three harvest years each is permitted on stands producing Breeder and Foundation seed with five years for Certified seed. Dairyland Research International will maintain sufficient seed for the projected life of the variety.
6. Certified Seed will be available fall of 2006.
7. Application for the Plant Variety Protection is undecided.
8. Information in the NAVRB application can be forwarded to the PVP office.
9. Variety name:

Date Submitted November 23, 2005

Experimental designations: DS288

Mariner III

1. Mariner III is an 84 clone synthetic. One half of the plants were selected for branch root expression and resistance to a disease complex of Phytophthora root rot and Aphanomyces root rot (Race 1 and 2) in disease nursery near Appleton, WI. These plants were progeny tested for high levels of resistance to Aphanomyces root rot (Race 2). The selected plants make up this half of DS416. The other half of the plants was selected for resistance to Aphanomyces root rot (Race 2) and agronomic traits such as seed yield and herbage yield.

2. Mariner III is adapted to the North Central and East Central Regions of the United States and intended for use across the North Central and East Central Regions of the United States. The states where it has been tested are Iowa, Minnesota, Pennsylvania and Wisconsin.

3. Mariner III is a dormant variety similar to the fall dormancy 4 check. DS416 is very winter hardy similar to the winter survival 2 check. Flower color in the Syn. 2 generation is 90% purple, 10% variegated with trace amounts of cream, white and yellow.

4. Mariner III has high resistance to bacterial wilt, Fusarium wilt, Phytophthora root rot, anthracnose (Race 1), Aphanomyces root rot (Race1), northern root-knot nematode (M. hapla); resistance to Verticillium wilt, Aphanomyces root rot (Race2) and stem nematode. Mariner III has not been tested for resistance to blue alfalfa aphid, pea aphid and spotted alfalfa aphid.

5. Breeder seed (Syn. 1) was produced from bulking seed of two populations of greenhouse pollinated parent plants near Clinton, WI in 2001. Foundation seed (Syn.2) was produced from Breeder seed and Certified seed (Syn.3) from Foundation seed. One generation each of Breeder, Foundation and Certified seed classes are recognized. A maximum of three years each is permitted on stands producing Breeder and Foundation seed with five years for certified seed. Sufficient Breeder seed for the projected life of the variety will be maintained by Dairyland Research International.

6. Certified Seed will be available spring of 2007.

7. Application for the Plant Variety Protection is undecided.

8. Information in the NAVRB application can be forwarded to the PVP office.

9. Variety name: Mariner III

Date Submitted: November 23, 2005

Experimental designations: DS416

425RR

1. The selection criteria used in the development of this variety include forage yield, forage quality, persistence and resistance to one or more of the following pests: bacterial wilt, Fusarium wilt, Verticillium wilt, anthracnose (Race 1), Phytophthora root rot, and Aphanomyces root rot (Race 1 and Race 2). Parent plants contain tolerance to Roundup® (glyphosate) herbicide conferred by the CP4 5-enolpyruvylshikimate-3-phosphate synthase (cp4-epsps) transgene, specifically, the USDA deregulated Roundup Ready® alfalfa transgenic events J101 and/or J163 (OECD unique identifiers: MON-00101-8 and MON-00163-7, respectively).
2. This variety is adapted to the North Central and East Central regions. This variety has been tested in Wisconsin, Indiana, Pennsylvania and Iowa, and is intended for use in the North Central and East Central regions.
3. Test variety is Moderately Dormant, similar to FD4 check. Test variety is Very Winterhardy, similar to WS2 check. Flower color (Syn2) is 92% purple, 7% variegated and 1% yellow with a trace of cream and white. This variety has high multifoliolate leaf expression. Test variety is “Roundup Ready®” expressing tolerance to Roundup® herbicide conferred by the cp4-epsps transgene.
4. Test variety has high resistance to anthracnose (Race 1), bacterial wilt, Phytophthora root rot, Verticillium wilt, Fusarium wilt, Aphanomyces root rot (Race 1), stem nematode and pea aphid; with resistance to root-knot nematode (*M. hapla*) and spotted alfalfa aphid. Reaction to blue alfalfa aphid has not been tested.
5. Seed increase is on a limited generation basis with one generation each of breeder and foundation and two generations of certified seed classes. Breeder (Syn 1), foundation (Syn 2), and certified (Syn 2 or Syn 3) classes will be recognized. Production of Syn 2 foundation seed requires consent of the breeder. Breeder seed was produced in the field near Nampa, ID in 2003. Forage Genetics will maintain sufficient foundation seed for the projected life of the variety. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively. At least one glyphosate application is required during early stand establishment so that cp4-epsps null segregant plants are removed from the seed field prior to pollination. (Null segregant plants are the plants that do not contain the Roundup Ready® trait due to normal genetic segregation in this variety).
6. Certified seed will be marketed in 2006.
7. No decision has been made concerning Plant Variety Protection Act.
8. The information in this application may not be forwarded to the PVP office.
9. Variety Name: 425RR Date submitted November 21, 2005

Experimental designations: FG R43M711

4G418

1. The selection criteria used in the development of this variety include forage yield, forage quality, persistence and resistance to one or more of the following pests: bacterial wilt, Fusarium wilt, Verticillium wilt, anthracnose (Race 1), Phytophthora root rot, and Aphanomyces root rot (Race 1 and Race 2). Parent plants contain tolerance to Roundup® (glyphosate) herbicide conferred by the CP4 5-enolpyruvylshikimate-3-phosphate synthase (cp4-epsps) transgene, specifically, the USDA deregulated Roundup Ready® alfalfa transgenic events J101 and/or J163 (OECD unique identifiers: MON-00101-8 and MON-00163-7, respectively).
 2. This variety is adapted to the North Central and East Central regions. This variety has been tested in Wisconsin, Indiana, Pennsylvania and Iowa, and is intended for use in the North Central and East Central regions.
 3. Test variety is Moderately Dormant, similar to FD4 check. Test variety is Very Winterhardy, similar to WS2 check. Flower color (Syn2) is 96% purple, 2% variegated and 2% cream with a trace of yellow and white. This variety has high multifoliolate leaf expression. Test variety is “Roundup Ready®” expressing tolerance to Roundup® herbicide conferred by the cp4-epsps transgene.
 4. Test variety has high resistance to anthracnose (Race 1), bacterial wilt, Phytophthora root rot, Verticillium wilt, Fusarium wilt, Aphanomyces root rot (Race 1) and pea aphid; resistance to root-knot nematode (M. hapla) and stem nematode; with moderate resistance to spotted alfalfa aphid. Reaction to blue alfalfa aphid has not been tested.
 5. Seed increase is on a limited generation basis with one generation each of breeder and foundation and two generations of certified seed classes. Breeder (Syn 1), foundation (Syn 2), and certified (Syn 2 or Syn 3) classes will be recognized. Production of Syn 2 foundation seed requires consent of the breeder. Breeder seed was produced in the field near Nampa, ID in 2003. Forage Genetics will maintain sufficient foundation seed for the projected life of the variety. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively. At least one glyphosate application is required during early stand establishment so that cp4-epsps null segregant plants are removed from the seed field prior to pollination. (Null segregant plants are the plants that do not contain the Roundup Ready® trait due to normal genetic segregation in this variety).
 6. Certified seed will be marketed in 2006.
 7. No decision has been made concerning Plant Variety Protection Act.
 8. The information in this application may not be forwarded to the PVP office
 9. Variety Name: 4G418 Date submitted November 21, 2005
- Experimental designations: FG R43M702

1. The selection criteria used in the development of this variety include forage yield, forage quality, persistence and resistance to one or more of the following pests: bacterial wilt, Fusarium wilt, Verticillium wilt, anthracnose (Race 1), Phytophthora root rot, and Aphanomyces root rot (Race 1 and Race 2). Parent plants contain tolerance to Roundup® (glyphosate) herbicide conferred by the CP4 5-enolpyruvylshikimate-3-phosphate synthase (cp4-epsps) transgene, specifically, the USDA deregulated Roundup Ready® alfalfa transgenic events J101 and/or J163 (OECD unique identifiers: MON-00101-8 and MON-00163-7, respectively).
2. This variety is adapted to the North Central and East Central regions. This variety has been tested in Wisconsin, Indiana, Pennsylvania and Iowa, and is intended for use in the North Central and East Central regions.
3. Test variety is Moderately Dormant, similar to FD4 check. Test variety is Very Winterhardy, similar to WS2 check. Flower color (Syn2) is 90% purple, 7% variegated and 3% cream with a trace of yellow and white. This variety has high multifoliolate leaf expression. Test variety is "Roundup Ready®" expressing tolerance to Roundup® herbicide conferred by the cp4-epsps transgene.
4. Test variety has high resistance to anthracnose (Race 1), bacterial wilt, Phytophthora root rot, Verticillium wilt, Fusarium wilt, Aphanomyces root rot (Race 1) and pea aphid; resistance to root-knot nematode (*M. hapla*) and stem nematode; with moderate resistance to spotted alfalfa aphid. Reaction to blue alfalfa aphid has not been tested.
5. Seed increase is on a limited generation basis with one generation each of breeder and foundation and two generations of certified seed classes. Breeder (Syn 1), foundation (Syn 2), and certified (Syn 2 or Syn 3) classes will be recognized. Production of Syn 2 foundation seed requires consent of the breeder. Breeder seed was produced in the field near Nampa, ID in 2003. Forage Genetics will maintain sufficient foundation seed for the projected life of the variety. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively. At least one glyphosate application is required during early stand establishment so that cp4-epsps null segregant plants are removed from the seed field prior to pollination. (Null segregant plants are the plants that do not contain the Roundup Ready® trait due to normal genetic segregation in this variety).
6. Certified seed will be marketed in 2006.
7. No decision has been made concerning Plant Variety Protection Act.
8. The information in this application may not be forwarded to the PVP office
9. Variety Name: 6443RR Date submitted November 21, 2005

Experimental designations: FG R43M700

AmeriStand 407TQ

1. The selection criteria used in the development of this variety include forage yield, forage quality, persistence and resistance to one or more of the following pests: bacterial wilt, Fusarium wilt, Verticillium wilt, anthracnose (Race 1), Phytophthora root rot, and Aphanomyces root rot (Race 1 and Race 2).
2. This variety is adapted to the North Central and East Central regions. This variety has been tested in Wisconsin, New York, Pennsylvania and Iowa and is intended for use in the North Central and East Central regions.
3. Test variety is moderately Fall Dormant, similar to FD4 check. Test variety is very Winterhardy, similar to WS2 check. Flower color (Syn2) is 53% purple, 22% variegated, 11% white, 10% yellow and 4% cream. This variety has high multifoliolate leaf expression.
4. Test variety has high resistance to anthracnose (Race 1), bacterial wilt, Phytophthora root rot, Verticillium wilt, Fusarium wilt, Aphanomyces root rot (Race 1) and pea aphid; resistance to root-knot nematode (*M. hapla*) and spotted alfalfa aphid; with moderate resistance to stem nematode. Reaction to blue alfalfa aphid has not been tested.
5. Seed increase is on a limited generation basis with one generation of breeder and two generations of foundation and certified seed classes. Breeder (Syn 1), foundation (Syn 2 or Syn 3), and certified (Syn 3 or Syn 4) classes will be recognized. Production of Syn 3 foundation seed requires consent of the breeder. Breeder seed was produced near Nampa, Idaho in 2002. Forage Genetics will maintain sufficient foundation seed for the projected life of the variety. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively.
6. Certified seed will be marketed in 2006.
7. No decision has been made concerning Plant Variety Protection Act.
8. The information in this application may not be forwarded to the PVP office
9. Variety Name: AmeriStand 407TQ Date submitted: November 21, 2005

Experimental designations: FG 42M134

Consistency 4.10RR

1. The selection criteria used in the development of this variety include forage yield, forage quality, persistence and resistance to one or more of the following pests: bacterial wilt, Fusarium wilt, Verticillium wilt, anthracnose (Race 1), Phytophthora root rot, and Aphanomyces root rot (Race 1 and Race 2). Parent plants contain tolerance to Roundup® (glyphosate) herbicide conferred by the CP4 5-enolpyruvylshikimate-3-phosphate synthase (cp4-epsps) transgene, specifically, the USDA deregulated Roundup Ready® alfalfa transgenic events J101 and/or J163 (OECD unique identifiers: MON-00101-8 and MON-00163-7, respectively).
2. This variety is adapted to the North Central and East Central regions. This variety has been tested in Wisconsin, Indiana, Pennsylvania and Iowa, and is intended for use in the North Central and East Central regions.
3. Test variety is Moderately Dormant, similar to FD4 check. Test variety is Very Winterhardy, similar to WS2 check. Flower color (Syn2) is 91% purple, 7% variegated and 2% cream with a trace of yellow and white. This variety has high multifoliolate leaf expression. Test variety is “Roundup Ready®” expressing tolerance to Roundup® herbicide conferred by the cp4-epsps transgene.
4. Test variety has high resistance to anthracnose (Race 1), bacterial wilt, Phytophthora root rot, Verticillium wilt, Fusarium wilt, Aphanomyces root rot (Race 1), pea aphid and spotted alfalfa aphid; with resistance to stem nematode and root-knot nematode (*M. hapla*). Reaction to blue alfalfa aphid has not been tested.
5. Seed increase is on a limited generation basis with one generation each of breeder and foundation and two generations of certified seed classes. Breeder (Syn 1), foundation (Syn 2), and certified (Syn 2 or Syn 3) classes will be recognized. Production of Syn 2 foundation seed requires consent of the breeder. Breeder seed was produced in the field near Nampa, ID in 2003. Forage Genetics will maintain sufficient foundation seed for the projected life of the variety. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively. At least one glyphosate application is required during early stand establishment so that cp4-epsps null segregant plants are removed from the seed field prior to pollination. (Null segregant plants are the plants that do not contain the Roundup Ready® trait due to normal genetic segregation in this variety).
6. Certified seed will be marketed in 2006.
7. No decision has been made concerning Plant Variety Protection Act.
8. The information in this application may not be forwarded to the PVP office.
9. Variety Name: Consistency 4.10RR Date submitted November 21, 2005

Experimental designations: FG R43M709

CONVOY

1. The selection criteria used in the development of this variety include forage yield, forage quality, persistence and resistance to one or more of the following pests: bacterial wilt, Fusarium wilt, Verticillium wilt, anthracnose, Phytophthora root rot, and Aphanomyces root rot (Race 1 and Race 2).
2. This variety is adapted to North Central and East Central regions. This variety has been tested in Minnesota, Wisconsin, New York and Pennsylvania, and is intended for use in the North Central and East Central regions.
3. Test variety is Moderately Fall Dormant, similar to FD4 check. Test variety is Very Winterhardy, similar to WS2 check. Flower color (Syn2) is 97% purple, 3% variegated with a trace of yellow, white and cream.
4. This variety has high resistance to anthracnose (Race 1), bacterial wilt, Fusarium wilt, Verticillium wilt, Phytophthora root rot, pea aphid, and Aphanomyces root rot (Race 1); resistance to root-knot nematode (*M. hapla*); with moderate resistance to stem nematode. Reactions to spotted alfalfa aphid and blue alfalfa aphid have not been tested.
5. Seed increase is on a limited generation basis with one generation of breeder and two generations of foundation and certified seed classes. Breeder (Syn 1), foundation (Syn 2 or Syn 3), and certified (Syn 3 or Syn 4) classes will be recognized. Production of Syn 3 foundation seed requires consent of the breeder. Breeder seed was produced in the greenhouse in 1999 and in the field near Nampa, ID in 2000. Forage Genetics will maintain sufficient foundation seed for the projected life of the variety. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively.
6. Certified seed will be marketed in 2004.
7. No decision has been made concerning Plant Variety Protection Act.
8. The information in this application may not be forwarded to the PVP office.

Variety Name	<u>CONVOY</u>
Experimental Designation(s)	<u>FG 40M162</u>
Date NA&MLVRB first accepted this variety	<u>January 2004</u>
Date(s) previous amendments were accepted	<u>None</u>
Date amendment submitted	<u>November 1, 2005</u>

Daytona

1. This variety was selected for winter-active growth, high forage yield and persistence.
2. This variety is adapted to California and the low desert areas of the Southwest. This variety has been tested in California. It will be used in the Southwest.
3. Test variety has fall dormancy similar to FD8 checks. Flower color (Syn2) is 100% purple with traces of white, cream, variegated and yellow.
4. This variety has high resistance to Fusarium wilt, Phytophthora root rot, pea aphid, spotted alfalfa aphid and root-knot nematode (*M. hapla*); with resistance to anthracnose, blue alfalfa aphid and stem nematode. Reaction to bacterial wilt, Verticillium wilt and Aphanomyces root rot has not been tested.
5. Seed increase is on a limited generation basis with one generation of breeder and two generations of foundation and certified seed classes. Breeder (Syn 1), foundation (Syn 2 or Syn 3), and certified (Syn 3 or Syn 4) classes will be recognized. Production of Syn 3 foundation seed requires consent of the breeder. Breeder seed was produced in the field near Nampa, ID in 2002. Forage Genetics will maintain sufficient foundation seed for the projected life of the variety. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively.
6. Certified seed will be marketed in 2006.
7. No decision has been made concerning Plant Variety Protection Act.
8. The information in this application may not be forwarded to the PVP office.
9. Variety Name: Daytona Date submitted November 21, 2005
Experimental designations: FG 92T023

DKA34-17RR

1. The selection criteria used in the development of this variety include forage yield, forage quality, persistence and resistance to one or more of the following pests: bacterial wilt, Fusarium wilt, Verticillium wilt, anthracnose (Race 1), Phytophthora root rot, and Aphanomyces root rot (Race 1 and Race 2). Parent plants contain tolerance to Roundup® (glyphosate) herbicide conferred by the CP4 5-enolpyruvylshikimate-3-phosphate synthase (cp4-epsps) transgene, specifically, the USDA deregulated Roundup Ready® alfalfa transgenic events J101 and/or J163 (OECD unique identifiers: MON-00101-8 and MON-00163-7, respectively).
2. This variety is adapted to the North Central and East Central regions. This variety has been tested in Wisconsin, Indiana, Pennsylvania and Iowa, and is intended for use in the North Central and East Central regions.
3. Test variety is Dormant, similar to FD3 check. Test variety is Very Winterhardy, similar to WS2 check. Flower color (Syn2) is 91% purple, 6% variegated, 2% white and 1% cream with a trace of yellow. This variety has high multifoliolate leaf expression. Test variety is “Roundup Ready®” expressing tolerance to Roundup® herbicide conferred by the cp4-epsps transgene.
4. Test variety has high resistance to anthracnose (Race 1), bacterial wilt, Phytophthora root rot, Verticillium wilt, Fusarium wilt, Aphanomyces root rot (Race 1) and pea aphid; with resistance to root-knot nematode (M. hapla) and stem nematode. Reaction to blue alfalfa aphid and spotted alfalfa aphid has not been tested.
5. Seed increase is on a limited generation basis with one generation each of breeder and foundation and two generations of certified seed classes. Breeder (Syn 1), foundation (Syn 2), and certified (Syn 2 or Syn 3) classes will be recognized. Production of Syn 2 foundation seed requires consent of the breeder. Breeder seed was produced in the field near Nampa, ID in 2003. Forage Genetics will maintain sufficient foundation seed for the projected life of the variety. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively. At least one glyphosate application is required during early stand establishment so that cp4-epsps null segregant plants are removed from the seed field prior to pollination. (Null segregant plants are the plants that do not contain the Roundup Ready® trait due to normal genetic segregation in this variety).
6. Certified seed will be marketed in 2006.
7. No decision has been made concerning Plant Variety Protection Act.
8. The information in this application may not be forwarded to the PVP office
9. Variety Name: DKA34-17RR Date submitted November 1, 2005

Experimental designations: FG R33M713

DKA41-18RR

1. The selection criteria used in the development of this variety include forage yield, forage quality, persistence and resistance to one or more of the following pests: bacterial wilt, Fusarium wilt, Verticillium wilt, anthracnose (Race 1), Phytophthora root rot, and Aphanomyces root rot (Race 1 and Race 2). Parent plants contain tolerance to Roundup® (glyphosate) herbicide conferred by the CP4 5-enolpyruvylshikimate-3-phosphate synthase (cp4-epsps) transgene, specifically, the USDA deregulated Roundup Ready® alfalfa transgenic events J101 and/or J163 (OECD unique identifiers: MON-00101-8 and MON-00163-7, respectively).
2. This variety is adapted to the North Central and East Central regions. This variety has been tested in Wisconsin, Indiana, Pennsylvania and Iowa, and is intended for use in the North Central and East Central regions.
3. Test variety is Moderately Dormant, similar to FD4 check. Test variety is Very Winterhardy, similar to WS2 check. Flower color (Syn2) is 88% purple, 10% variegated, 1% white and 1% yellow with a trace of cream. This variety has high multifoliolate leaf expression. Test variety is “Roundup Ready®” expressing tolerance to Roundup® herbicide conferred by the cp4-epsps transgene.
4. Test variety has high resistance to anthracnose (Race 1), bacterial wilt, Phytophthora root rot, Verticillium wilt, Fusarium wilt, Aphanomyces root rot (Race 1), pea aphid and spotted alfalfa aphid; with resistance to stem nematode and root-knot nematode (*M. hapla*). Reaction to blue alfalfa aphid has not been tested.
5. Seed increase is on a limited generation basis with one generation each of breeder and foundation and two generations of certified seed classes. Breeder (Syn 1), foundation (Syn 2), and certified (Syn 2 or Syn 3) classes will be recognized. Production of Syn 2 foundation seed requires consent of the breeder. Breeder seed was produced in the field near Nampa, ID in 2003. Forage Genetics will maintain sufficient foundation seed for the projected life of the variety. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively. At least one glyphosate application is required during early stand establishment so that cp4-epsps null segregant plants are removed from the seed field prior to pollination. (Null segregant plants are the plants that do not contain the Roundup Ready® trait due to normal genetic segregation in this variety).
6. Certified seed will be marketed in 2006.
7. No decision has been made concerning Plant Variety Protection Act.
8. The information in this application may not be forwarded to the PVP office.
9. Variety Name: DKA41-18RR Date submitted November 21, 2005

Experimental designations: FG R43M710

DKA84-10RR

1. The selection criteria used in the development of this variety include Roundup tolerance, forage yield, winter-active growth, persistence and resistance to one or more of the following pests: bacterial wilt, Fusarium wilt, Verticillium wilt, anthracnose (Race 1), Phytophthora root rot, and Aphanomyces root rot (Race 1 and/or Race 2). Parent plants contain tolerance to Roundup® (glyphosate) herbicide conferred by the CP4 5-enolpyruvylshikimate-3-phosphate synthase (cp4-epsps) transgene, specifically, the USDA deregulated Roundup Ready® alfalfa transgenic events J101 and/or J163 (OECD unique identifiers: MON-00101-8 and MON-00163-7, respectively).
2. This variety is adapted to California and the low desert areas of the West. This variety has been tested in California. It will be used in the Southwest.
3. Test variety has fall dormancy similar to FD8 checks. Flower color (Syn2) is 100% purple with a trace of yellow, white, cream and variegated. Test variety is “Roundup Ready®” expressing tolerance to Roundup® herbicide conferred by the cp4-epsps transgene.
4. This variety has high resistance to anthracnose (Race), Fusarium wilt, Phytophthora root rot, pea aphid, spotted alfalfa aphid, blue alfalfa aphid, root knot nematode (*M. hapla*) and stem nematode; resistance to bacterial wilt; with moderate resistance to Verticillium wilt. Reaction to Aphanomyces root rot has not been tested.
5. Seed increase is on a limited generation basis with one generation of breeder and two generations of foundation and certified seed classes. Breeder (Syn 1), foundation (Syn 2), and certified (Syn 2 or Syn 3) classes will be recognized. Breeder seed was produced in the field near Nampa, ID in 2003. Forage Genetics will maintain sufficient foundation seed for the projected life of the variety. Production of Syn2 foundation seed requires the consent of the breeder. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively. At least one glyphosate application is required during early stand establishment so that cp4-epsps null segregant plants are removed from the seed field prior to pollination. (Null segregant plants are the plants that do not contain the Roundup Ready® trait due to normal genetic segregation in this variety).
6. Certified seed will be marketed in 2006.
7. No decision has been made concerning Plant Variety Protection Act.
8. The information in this application may not be forwarded to the PVP office.
9. Variety Name: DKA84-10RR Submitted: November 21, 2005

Experimental designations: FG R83T907; RR03BD-140

GH709RR

1. The selection criteria used in the development of this variety include forage yield, forage quality, persistence and resistance to one or more of the following pests: bacterial wilt, Fusarium wilt, Verticillium wilt, anthracnose (Race 1), Phytophthora root rot, and Aphanomyces root rot (Race 1 and Race 2). Parent plants contain tolerance to Roundup® (glyphosate) herbicide conferred by the CP4 5-enolpyruvylshikimate-3-phosphate synthase (cp4-epsps) transgene, specifically, the USDA deregulated Roundup Ready® alfalfa transgenic events J101 and/or J163 (OECD unique identifiers: MON-00101-8 and MON-00163-7, respectively).
2. This variety is adapted to the North Central and East Central regions. This variety has been tested in Wisconsin, Indiana, Pennsylvania and Iowa, and is intended for use in the North Central and East Central regions.
3. Test variety is Moderately Dormant, similar to FD4 check. Test variety is Very Winterhardy, similar to WS2 check. Flower color (Syn2) is 90% purple, 6% variegated, 2% cream and 2% yellow with a trace of white. This variety has high multifoliolate leaf expression. Test variety is “Roundup Ready®” expressing tolerance to Roundup® herbicide conferred by the cp4-epsps transgene.
4. Test variety has high resistance to anthracnose (Race 1), bacterial wilt, Phytophthora root rot, Verticillium wilt, Fusarium wilt, Aphanomyces root rot (Race 1) and pea aphid; with resistance to root-knot nematode (*M. hapla*), stem nematode and spotted alfalfa aphid. Reaction to blue alfalfa aphid has not been tested.
5. Seed increase is on a limited generation basis with one generation each of breeder and foundation and two generations of certified seed classes. Breeder (Syn 1), foundation (Syn 2), and certified (Syn 2 or Syn 3) classes will be recognized. Production of Syn 2 foundation seed requires consent of the breeder. Breeder seed was produced in the field near Nampa, ID in 2003. Forage Genetics will maintain sufficient foundation seed for the projected life of the variety. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively. At least one glyphosate application is required during early stand establishment so that cp4-epsps null segregant plants are removed from the seed field prior to pollination. (Null segregant plants are the plants that do not contain the Roundup Ready® trait due to normal genetic segregation in this variety).
6. Certified seed will be marketed in 2006.
7. No decision has been made concerning Plant Variety Protection Act.
8. The information in this application may not be forwarded to the PVP office.
9. Variety Name: GH709RR Date submitted November 21, 2005

Experimental designations: FG R43M703

GrandSlam

1. This variety was selected for winter-active growth, high forage yield, multifoliolate leaf expression and persistence.
2. This variety is adapted to California and the low desert areas of the Southwest. This variety has been tested in California. It will be used in the Southwest.
3. Test variety has fall dormancy similar to FD8 checks. Flower color (Syn2) is 100% purple with traces of white, yellow, variegated and cream. This variety has high multifoliolate leaf expression.
4. This variety has high resistance to Fusarium wilt, Phytophthora root rot, pea aphid, spotted alfalfa aphid, blue alfalfa aphid and root-knot nematode (*M. hapla*); with resistance to anthracnose (Race 1), bacterial wilt, Verticillium wilt and stem nematode. Reaction to Aphanomyces root rot has not been tested.
5. Seed increase is on a limited generation basis with one generation of breeder and two generations of foundation and certified seed classes. Breeder (Syn 1), foundation (Syn 2 or Syn 3), and certified (Syn 3 or Syn 4) classes will be recognized. Production of Syn 3 foundation seed requires consent of the breeder. Breeder seed was produced in the field near Nampa, ID in 2002. Forage Genetics will maintain sufficient foundation seed for the projected life of the variety. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively.
6. Certified seed will be marketed in 2006.
7. No decision has been made concerning Plant Variety Protection Act.
8. The information in this application may not be forwarded to the PVP office.
9. Variety Name: GrandSlam Date submitted November 21, 2005

Experimental designations: FG 82M204

GrandStand

1. The selection criteria used in the development of this variety include forage yield, forage quality, persistence and resistance to one or more of the following pests: bacterial wilt, Fusarium wilt, Verticillium wilt, anthracnose (Race 1), Phytophthora root rot, and Aphanomyces root rot (Race 1 and Race 2).
2. This variety is adapted to the North Central, East Central and Great Plains regions. This variety has been tested in Wisconsin, New York, Minnesota and Nebraska and is intended for use in the North Central, East Central and Great Plains regions.
3. Test variety is Moderately Dormant, similar to FD4 check. Test variety is Extremely Winterhardy, similar to WS1 check. Flower color (Syn2) is 95% purple, 3% variegated, 1% white and 1% yellow. This variety has high multifoliolate leaf expression.
4. Test variety has high resistance to anthracnose (Race 1), bacterial wilt, Phytophthora root rot, Verticillium wilt, Fusarium wilt, Aphanomyces root rot (Race 1) and pea aphid; resistance to root-knot nematode (*M. hapla*) and spotted alfalfa aphid; with moderate resistance to stem nematode. Reaction to blue alfalfa aphid has not been tested.
5. Seed increase is on a limited generation basis with one generation of breeder and two generations of foundation and certified seed classes. Breeder (Syn 1), foundation (Syn 2 or Syn 3), and certified (Syn 3 or Syn 4) classes will be recognized. Production of Syn 3 foundation seed requires consent of the breeder. Breeder seed was produced near Nampa, Idaho in 2001. Forage Genetics will maintain sufficient foundation seed for the projected life of the variety. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively.
6. Certified seed will be marketed in 2006.
7. No decision has been made concerning Plant Variety Protection Act.
8. The information in this application may not be forwarded to the PVP office.
9. Variety Name: GrandStand Date submitted November 21, 2005
Experimental designations: FG 41M120

HB 8300

1. The selection criteria used in the development of this variety include forage yield, forage quality, persistence and resistance to one or more of the following pests: bacterial wilt, Fusarium wilt, Verticillium wilt, anthracnose (Race 1), Phytophthora root rot, and Aphanomyces root rot (Race 1 and Race 2).
2. This variety is adapted to the North Central and East Central regions. This variety has been tested in Wisconsin, Pennsylvania, Indiana and Iowa, and is intended for use in the North Central and East Central regions.
3. Test variety is Fall Dormant, similar to FD3 check. Test variety is Extremely Winterhardy, similar to WS1 check. Flower color (Syn2) is 88% purple, 10% variegated, 1% cream and 1% yellow with a trace of white. This variety has high multifoliolate leaf expression.
4. Test variety has high resistance to anthracnose (Race 1), bacterial wilt, Phytophthora root rot, Verticillium wilt, Fusarium wilt, Aphanomyces root rot (Race 1) and pea aphid; with resistance to root-knot nematode (*M. hapla*) and stem nematode. Reaction to blue alfalfa aphid and spotted alfalfa aphid has not been tested.
5. Seed increase is on a limited generation basis with one generation of breeder and two generations of foundation and certified seed classes. Breeder (Syn 1), foundation (Syn 2 or Syn 3), and certified (Syn 3 or Syn 4) classes will be recognized. Production of Syn 3 foundation seed requires consent of the breeder. Breeder seed was produced near Nampa, Idaho in 2002. Forage Genetics will maintain sufficient foundation seed for the projected life of the variety. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively.
6. Certified seed will be marketed in 2006.
7. No decision has been made concerning Plant Variety Protection Act.
8. The information in this application may not be forwarded to the PVP office
9. Variety Name: HB 8300 Date submitted: November 21, 2005

Experimental designations: FG 32Q104; FG 32M104

HB 8400

1. The selection criteria used in the development of this variety include forage yield, forage quality, persistence and resistance to one or more of the following pests: bacterial wilt, Fusarium wilt, Verticillium wilt, anthracnose (Race 1), Phytophthora root rot, and Aphanomyces root rot (Race 1 and or Race 2).
2. This variety is adapted to the North Central and East Central regions. This variety has been tested in Wisconsin, New York, Iowa and Pennsylvania and is intended for use in the North Central and East Central regions.
3. Test variety is moderately Dormant, similar to FD4 check. Test variety is very Winterhardy, similar to WS2 check. Flower color (Syn2) is 89% purple, 7% variegated, 2% cream, 1% white and 1% yellow.
4. Test variety has high resistance to anthracnose (Race 1), bacterial wilt, Phytophthora root rot, Verticillium wilt, Fusarium wilt, Aphanomyces root rot (Race 1) and pea aphid; with resistance to root-knot nematode (*M. hapla*) and stem nematode. Reaction to blue alfalfa aphid and spotted alfalfa aphid has not been tested.
5. Seed increase is on a limited generation basis with one generation of breeder and two generations of foundation and certified seed classes. Breeder (Syn 1), foundation (Syn 2 or Syn 3), and certified (Syn 3 or Syn 4) classes will be recognized. Production of Syn 3 foundation seed requires consent of the breeder. Breeder seed was produced near Nampa, Idaho in 2002. Forage Genetics will maintain sufficient foundation seed for the projected life of the variety. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively.
6. Certified seed will be marketed in 2006.
7. No decision has been made concerning Plant Variety Protection Act.
8. The information in this application may not be forwarded to the PVP office.
9. Variety Name: HB 8400 Date submitted November 21, 2005
Experimental designations: FG 42T129

HB 8900

1. This variety was selected for winter-active growth, high forage yield and persistence.
2. This variety is adapted to California and the low desert areas of the Southwest. This variety has been tested in California. It will be used in the Southwest.
3. Test variety has fall dormancy similar to FD9 checks. Flower color (Syn2) is 100% purple with traces of white, cream, variegated and yellow.
4. This variety has high resistance to Fusarium wilt, pea aphid, spotted alfalfa aphid and blue alfalfa aphid; with resistance to anthracnose (Race 1), bacterial wilt, Phytophthora root rot, Verticillium wilt, stem nematode and root-knot nematode (M. hapla). Reaction to Aphanomyces root rot has not been tested.
5. Seed increase is on a limited generation basis with one generation of breeder and two generations of foundation and certified seed classes. Breeder (Syn 1), foundation (Syn 2 or Syn 3), and certified (Syn 3 or Syn 4) classes will be recognized. Production of Syn 3 foundation seed requires consent of the breeder. Breeder seed was produced in the field near Nampa, ID in 2001. Forage Genetics will maintain sufficient foundation seed for the projected life of the variety. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively.
6. Certified seed will be marketed in 2006.
7. No decision has been made concerning Plant Variety Protection Act.
8. The information in this application may not be forwarded to the PVP office.
9. Variety Name: HB 8900 Date submitted November 21, 2005
Experimental designations: FG 91T403

Impressive

1. The selection criteria used in the development of this variety include forage yield, forage quality, persistence and resistance to one or more of the following pests: bacterial wilt, Fusarium wilt, Verticillium wilt, anthracnose (Race 1), Phytophthora root rot, and Aphanomyces root rot (Race 1 and Race 2).
2. This variety is adapted to the North Central and East Central regions. This variety has been tested in Wisconsin, New York, Minnesota and Indiana, and is intended for use in the North Central and East Central regions.
3. Test variety is Dormant, similar to FD3 check. Test variety is Very Winterhardy, similar to WS2 check. Flower color (Syn2) is 91% purple, 6% variegated, 2% white and 1% cream. This variety has high multifoliolate leaf expression.
4. Test variety has high resistance to anthracnose (Race 1), bacterial wilt, Phytophthora root rot, Verticillium wilt, Fusarium wilt and Aphanomyces root rot (Race 1); with resistance to spotted alfalfa aphid, pea aphid and stem nematode. Reaction to blue alfalfa aphid and root-knot nematode has not been tested.
5. Seed increase is on a limited generation basis with one generation of breeder and two generations of foundation and certified seed classes. Breeder (Syn 1), foundation (Syn 2 or Syn 3), and certified (Syn 3 or Syn 4) classes will be recognized. Production of Syn 3 foundation seed requires consent of the breeder. Breeder seed was produced near Nampa, Idaho in 2001. Forage Genetics will maintain sufficient foundation seed for the projected life of the variety. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively.
6. Certified seed will be marketed in 2006.
7. No decision has been made concerning Plant Variety Protection Act.
8. The information in this application may not be forwarded to the PVP office.
9. Variety Name: Impressive Date submitted: November 21, 2005
Experimental designations: FG 31Q109

Lariat

1. The selection criteria used in the development of this variety include forage yield, forage quality, persistence and resistance to one or more of the following pests: bacterial wilt, Fusarium wilt, Verticillium wilt, anthracnose (Race 1), Phytophthora root rot, and Aphanomyces root rot (Race 1 and Race 2).
2. This variety is adapted to the North Central and East Central regions. This variety has been tested in Wisconsin, New York and Iowa and is intended for use in the North Central and East Central regions.
3. Test variety is Fall Dormant, similar to FD3 check. Test variety is extremely Winterhardy, similar to WS1 check. Flower color (Syn2) is 88% purple, 8% variegated, 2% white, 1% cream and 1% yellow. This variety has high multifoliolate leaf expression.
4. Test variety has high resistance to anthracnose (Race 1), bacterial wilt, Phytophthora root rot, Verticillium wilt, Fusarium wilt, Aphanomyces root rot (Race 1) and pea aphid; with resistance to root-knot nematode (*M. hapla*) and stem nematode. Reaction to blue alfalfa aphid and spotted alfalfa aphid has not been tested.
5. Seed increase is on a limited generation basis with one generation of breeder and two generations of foundation and certified seed classes. Breeder (Syn 1), foundation (Syn 2 or Syn 3), and certified (Syn 3 or Syn 4) classes will be recognized. Production of Syn 3 foundation seed requires consent of the breeder. Breeder seed was produced near Nampa, Idaho in 2002. Forage Genetics will maintain sufficient foundation seed for the projected life of the variety. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively.
6. Certified seed will be marketed in 2006.
7. No decision has been made concerning Plant Variety Protection Act.
8. The information in this application may not be forwarded to the PVP office
9. Variety Name: Lariat Date submitted: November 21, 2005
Experimental designations: FG 32M103

LegendMaster

1. The selection criteria used in the development of this variety include forage yield, forage quality, persistence and resistance to one or more of the following pests: bacterial wilt, Fusarium wilt, Verticillium wilt, anthracnose (Race 1), Phytophthora root rot and Aphanomyces root rot (Race 1 and Race 2).
2. This variety is adapted to the North Central and East Central regions. This variety has been tested in Wisconsin, New York and Iowa, and is intended for use in the North Central and East Central regions.
3. Test variety is Fall Dormant, similar to FD3 check. Test variety is very Winterhardy, similar to WS2 check. Flower color (Syn2) is 90% purple, 10% variegated with a trace of white, cream and yellow. This variety has high multifoliolate leaf expression.
4. Test variety has high resistance to anthracnose (Race 1), bacterial wilt, Phytophthora root rot, Verticillium wilt, Fusarium wilt and Aphanomyces root rot (Race 1); resistance to spotted alfalfa aphid and stem nematode; with moderate resistance to root-knot nematode (*M. hapla*). Reaction to blue alfalfa aphid and pea aphid has not been tested.
5. Seed increase is on a limited generation basis with one generation of breeder and two generations of foundation and certified seed classes. Breeder (Syn 1), foundation (Syn 2 or Syn 3), and certified (Syn 3 or Syn 4) classes will be recognized. Production of Syn 3 foundation seed requires consent of the breeder. Breeder seed was produced near Nampa, Idaho in 1999. Forage Genetics will maintain sufficient foundation seed for the projected life of the variety. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively.
6. Certified seed will be marketed in 2006.
7. No decision has been made concerning Plant Variety Protection Act.
8. The information in this application may not be forwarded to the PVP office.
9. Variety Name: LegendMaster Date submitted: November 21, 2005

Experimental designations: FG 3S11

Liberator

1. The selection criteria used in the development of this variety include forage yield, forage quality, persistence and resistance to one or more of the following pests: bacterial wilt, Fusarium wilt, Verticillium wilt, anthracnose (Race 1), Phytophthora root rot, and Aphanomyces root rot (Race 1 and Race 2). Parent plants contain tolerance to Roundup® (glyphosate) herbicide conferred by the CP4 5-enolpyruvylshikimate-3-phosphate synthase (cp4-epsps) transgene, specifically, the USDA deregulated Roundup Ready® alfalfa transgenic events J101 and/or J163 (OECD unique identifiers: MON-00101-8 and MON-00163-7, respectively).
2. This variety is adapted to the North Central and East Central regions. This variety has been tested in Wisconsin, Indiana, Pennsylvania and Iowa, and is intended for use in the North Central and East Central regions.
3. Test variety is Moderately Dormant, similar to FD4 check. Test variety is Very Winterhardy, similar to WS2 check. Flower color (Syn2) is 96% purple, 3% variegated and 1% cream with a trace of yellow and white. This variety has high multifoliolate leaf expression. Test variety is “Roundup Ready®” expressing tolerance to Roundup® herbicide conferred by the cp4-epsps transgene.
4. Test variety has high resistance to anthracnose (Race 1), bacterial wilt, Phytophthora root rot, Verticillium wilt, Fusarium wilt and Aphanomyces root rot (Race 1); resistance to stem nematode, pea aphid and spotted alfalfa aphid; with moderate resistance to root-knot nematode (M. hapla). Reaction to blue alfalfa aphid has not been tested.
5. Seed increase is on a limited generation basis with one generation each of breeder and foundation and two generations of certified seed classes. Breeder (Syn 1), foundation (Syn 2), and certified (Syn 2 or Syn 3) classes will be recognized. Production of Syn 2 foundation seed requires consent of the breeder. Breeder seed was produced in the field near Nampa, ID in 2003. Forage Genetics will maintain sufficient foundation seed for the projected life of the variety. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively. At least one glyphosate application is required during early stand establishment so that cp4-epsps null segregant plants are removed from the seed field prior to pollination. (Null segregant plants are the plants that do not contain the Roundup Ready® trait due to normal genetic segregation in this variety).
6. Certified seed will be marketed in 2006.
7. No decision has been made concerning Plant Variety Protection Act.
8. The information in this application may not be forwarded to the PVP office.
9. Variety Name: Liberator Date submitted November 21, 2005
Experimental designations: FG R43M707

Lightning Extra

1. The selection criteria used in the development of this variety include forage yield, forage quality, persistence and resistance to one or more of the following pests: bacterial wilt, Fusarium wilt, Verticillium wilt, anthracnose, Phytophthora root rot, and Aphanomyces root rot (Race 1 and Race 2).
2. This variety is adapted to North Central and East Central regions. This variety has been tested in Iowa, Kentucky, Michigan and Wisconsin, and is intended for use in the North Central and East Central regions.
3. Test variety is Moderately Fall Dormant, similar to FD4 checks. Test variety is Extremely Winterhardy, similar to WS1 checks. Flower color (Syn2) is 90% purple, 10% variegated with a trace of yellow, white and cream. This variety has high multifoliolate leaf expression.
4. This variety has high resistance to anthracnose (Race 1), bacterial wilt, Fusarium wilt, Verticillium wilt, Phytophthora root rot, pea aphid, spotted alfalfa aphid, and Aphanomyces root rot (Race 1); with moderate resistance to root-knot nematode (*M. hapla*). Reactions to stem nematode and blue alfalfa aphid have not been tested.
5. Seed increase is on a limited generation basis with one generation of breeder and two generations of foundation and certified seed classes. Breeder (Syn 1), foundation (Syn 2 or Syn 3), and certified (Syn 3 or Syn 4) classes will be recognized. Production of Syn 3 foundation seed requires consent of the breeder. Breeder seed was produced in the greenhouse in 1998 and in the field near Nampa, ID in 1999. Forage Genetics will maintain sufficient foundation seed for the projected life of the variety. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively.
6. Certified seed will be marketed in 2004.
7. No decision has been made concerning Plant Variety Protection Act.
8. The information in this application may not be forwarded to the PVP office.

Variety Name	<u>Lightning Extra</u>
Experimental Designation(s)	<u>FG 4S442</u>
Date NA&MLVRB first accepted this variety	<u>January 2004</u>
Date(s) previous amendments were accepted	<u>None</u>
Date amendment submitted	<u>November 1, 2005</u>

Phoenix

1. The selection criteria used in the development of this variety include forage yield, persistence and resistance to one or more of the following pests: bacterial wilt, Fusarium wilt, Verticillium wilt, anthracnose, Phytophthora root rot, Aphanomyces root rot (Race 1 and Race 2), and Sclerotinia crown and stem rot.
2. This variety is adapted to East Central and Winterhardy Intermountain regions. This variety has been tested in Idaho, Indiana, and Tennessee, and is intended for use in the East Central and Winterhardy Intermountain regions.
3. Test variety is Moderately Fall Dormant, similar to FD5 check. Test variety is Low Winterhardy, similar to WS4 check. Flower color (Syn2) is 97% purple, 3% variegated with a trace of yellow, white and cream.
4. Test variety has high resistance to anthracnose (Race 1), bacterial wilt, Fusarium wilt, Verticillium wilt, Phytophthora root rot, and pea aphid; with resistance to Aphanomyces root rot (Race 1). Reactions to stem nematode, spotted alfalfa aphid, blue alfalfa aphid, and root-knot nematode (*M. hapla*) have not been tested.
5. Seed increase is on a limited generation basis with one generation of breeder and two generations of foundation and certified seed classes. Breeder (Syn 1), foundation (Syn 2 or Syn 3), and certified (Syn 3 or Syn 4) classes will be recognized. Production of Syn 3 foundation seed requires consent of the breeder. Breeder seed was produced in the greenhouse in 1999 and in the field near Nampa, ID in 2000. Forage Genetics will maintain sufficient foundation seed for the projected life of the variety. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively.
6. Certified seed will be marketed in 2004.
7. No decision has been made concerning Plant Variety Protection Act.
8. The information in this application may not be forwarded to the PVP office.

Variety Name	<u>Phoenix</u>
Experimental Designation(s)	<u>FG 50T176</u>
Date NA&MLVRB first accepted this variety	<u>January 2004</u>
Date(s) previous amendments were accepted	<u>None</u>
Date amendment submitted	<u>November 1, 2005</u>

Revolution

1. The selection criteria used in the development of this variety include Roundup tolerance, forage yield, winter-active growth, persistence and resistance to one or more of the following pests: bacterial wilt, Fusarium wilt, Verticillium wilt, anthracnose (Race 1), Phytophthora root rot, and Aphanomyces root rot (Race 1 and/or Race 2). Parent plants contain tolerance to Roundup® (glyphosate) herbicide conferred by the CP4 5-enolpyruvylshikimate-3-phosphate synthase (cp4-epsps) transgene, specifically, the USDA deregulated Roundup Ready® alfalfa transgenic events J101 and/or J163 (OECD unique identifiers: MON-00101-8 and MON-00163-7, respectively).
2. This variety is adapted to California and the low desert areas of the West. This variety has been tested in California. It will be used in the Southwest.
3. Test variety has fall dormancy similar to FD8 checks. Flower color (Syn2) is 100% purple with a trace of yellow, white, cream and variegated. Test variety is “Roundup Ready®” expressing tolerance to Roundup® herbicide conferred by the cp4-epsps transgene.
4. This variety has high resistance to anthracnose (Race 1), Bacterial wilt, Fusarium wilt, Phytophthora root rot, pea aphid, spotted alfalfa aphid, root-knot nematode (*M. hapla*), blue alfalfa aphid and stem nematode; with moderate resistance to Verticillium wilt. Reaction to Aphanomyces root rot has not been tested
5. Seed increase is on a limited generation basis with one generation of breeder and two generations of foundation and certified seed classes. Breeder (Syn 1), foundation (Syn 2), and certified (Syn 2 or Syn 3) classes will be recognized. Breeder seed was produced in the field near Nampa, ID in 2003. Forage Genetics will maintain sufficient foundation seed for the projected life of the variety. Production of Syn2 foundation seed requires the consent of the breeder. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively. At least one glyphosate application is required during early stand establishment so that cp4-epsps null segregant plants are removed from the seed field prior to pollination. (Null segregant plants are the plants that do not contain the Roundup Ready® trait due to normal genetic segregation in this variety).
6. Certified seed will be marketed in 2006.
7. No decision has been made concerning Plant Variety Protection Act.
8. The information in this application may not be forwarded to the PVP office.
9. Variety Name: Revolution Submitted: November 21, 2005

Experimental designations: R83T905 ; RR03BD-181

RRALF 4R100

1. The selection criteria used in the development of this variety include forage yield, forage quality, persistence and resistance to one or more of the following pests: bacterial wilt, Fusarium wilt, Verticillium wilt, anthracnose (Race 1), Phytophthora root rot, and Aphanomyces root rot (Race 1 and Race 2). Parent plants contain tolerance to Roundup® (glyphosate) herbicide conferred by the CP4 5-enolpyruvylshikimate-3-phosphate synthase (cp4-epsps) transgene, specifically, the USDA deregulated Roundup Ready® alfalfa transgenic events J101 and/or J163 (OECD unique identifiers: MON-00101-8 and MON-00163-7, respectively).
2. This variety is adapted to the North Central and East Central regions. This variety has been tested in Wisconsin, Indiana, Pennsylvania and Iowa, and is intended for use in the North Central and East Central regions.
3. Test variety is Moderately Dormant, similar to FD4 check. Test variety is Very Winterhardy, similar to WS2 check. Flower color (Syn2) is 95% purple, 4% variegated and 1% cream with a trace of yellow and white. This variety has high multifoliolate leaf expression. Test variety is “Roundup Ready®” expressing tolerance to Roundup® herbicide conferred by the cp4-epsps transgene.
4. Test variety has high resistance to anthracnose (Race 1), bacterial wilt, Phytophthora root rot, Verticillium wilt, Fusarium wilt and Aphanomyces root rot (Race 1); resistance to root-knot nematode (*M. hapla*) and pea aphid; with moderate resistance to stem nematode and spotted alfalfa aphid. Reaction to blue alfalfa aphid has not been tested.
5. Seed increase is on a limited generation basis with one generation each of breeder and foundation and two generations of certified seed classes. Breeder (Syn 1), foundation (Syn 2), and certified (Syn 2 or Syn 3) classes will be recognized. Production of Syn 2 foundation seed requires consent of the breeder. Breeder seed was produced in the field near Nampa, ID in 2003. Forage Genetics will maintain sufficient foundation seed for the projected life of the variety. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively. At least one glyphosate application is required during early stand establishment so that cp4-epsps null segregant plants are removed from the seed field prior to pollination. (Null segregant plants are the plants that do not contain the Roundup Ready® trait due to normal genetic segregation in this variety).
6. Certified seed will be marketed in 2006.
7. No decision has been made concerning Plant Variety Protection Act.
8. The information in this application may not be forwarded to the PVP office.
9. Variety Name: RRALF 4R100 Date submitted November 21, 2005
Experimental designations: FG R43M706

RRALF 6R100

1. The selection criteria used in the development of this variety include Roundup tolerance, forage yield, winter-active growth, persistence and resistance to one or more of the following pests: bacterial wilt, Fusarium wilt, Verticillium wilt, anthracnose (Race 1), Phytophthora root rot, and Aphanomyces root rot (Race 1 and/or Race 2). Parent plants contain tolerance to Roundup® (glyphosate) herbicide conferred by the CP4 5-enolpyruvylshikimate-3-phosphate synthase (cp4-epsps) transgene, specifically, the USDA deregulated Roundup Ready® alfalfa transgenic events J101 and/or J163 (OECD unique identifiers: MON-00101-8 and MON-00163-7, respectively).
2. This variety is adapted to California and the Moderately Winterhardy areas of the West. This variety has been tested in California and Idaho. It will be used in the Southwest and Moderately Winterhardy Intermountain regions.
3. Test variety has fall dormancy similar to FD6 checks. Flower color (Syn2) is 94% purple, 6% variegated with trace of white, cream and yellow. This variety has moderate multifoliolate leaf expression. Test variety is “Roundup Ready®” expressing tolerance to Roundup® herbicide conferred by the cp4-epsps transgene.
4. This variety has high resistance to anthracnose (Race 1), bacterial wilt, Fusarium wilt, Phytophthora root rot, spotted alfalfa aphid, blue alfalfa aphid and root knot nematode (*M. hapla*); resistance to Verticillium wilt, pea aphid and stem nematode. Reaction to Aphanomyces root rot has not been tested
5. Seed increase is on a limited generation basis with one generation of breeder and two generations of foundation and certified seed classes. Breeder (Syn 1), foundation (Syn 2), and certified (Syn 2 or Syn 3) classes will be recognized. Breeder seed was produced in the field near Nampa, ID in 2003. Forage Genetics will maintain sufficient foundation seed for the projected life of the variety. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively. At least one glyphosate application is required during early stand establishment so that cp4-epsps null segregant plants are removed from the seed field prior to pollination. (Null segregant plants are the plants that do not contain the Roundup Ready® trait due to normal genetic segregation in this variety).
6. Certified seed will be marketed in 2006.
7. No decision has been made concerning Plant Variety Protection Act.
8. The information in this application may not be forwarded to the PVP office.
9. Variety Name: RRALF 6R100 Submitted: November 21, 2005

Experimental designations: R63T908; RR03BD-161

Triple Play

1. The selection criteria used in the development of this variety include winter active growth, high forage yield and persistence. Recurrent phenotypic selection was used to develop source populations and identify parent plants.
2. This variety is adapted to the Southwest region. This variety has been tested in California and is intended for use in the Southwest region.
3. Test variety is Very Non-Dormant, similar to FD10 checks. Flower color (Syn2) is 100% purple with a trace of variegated, cream, yellow and white.
4. This variety has high resistance to Fusarium wilt, Phytophthora root rot, pea aphid, spotted alfalfa aphid, blue alfalfa aphid and root-knot nematode (*M. hapla*); resistance to stem nematode; moderate resistance to anthracnose (Race 1) and Verticillium wilt; and low resistance to bacterial wilt. Reaction to Aphanomyces root rot has not been tested.
5. Seed increase is on a limited generation basis with one generation of breeder and two generations of foundation and certified seed classes. Breeder (Syn 1), foundation (Syn 2 or Syn 3), and certified (Syn 3 or Syn 4) classes will be recognized. Production of Syn 3 foundation seed requires consent of the breeder. Breeder seed was produced near Nampa, Idaho in 1999. Forage Genetics will maintain sufficient foundation seed for the projected life of the variety. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively.
6. Certified seed will be marketed in 2003.
7. No decision has been made concerning Plant Variety Protection Act.
8. The information in this application may not be forwarded to the PVP office.

Variety Name	<u>Triple Play</u>
Experimental Designation(s)	<u>FG 9S903</u>
Date NA&MLVRB first accepted this variety	<u>January 2003</u>
Date(s) previous amendments were accepted	<u>None</u>
Date amendment submitted	<u>November 1, 2005</u>

V-45RR

1. The selection criteria used in the development of this variety include forage yield, forage quality, persistence and resistance to one or more of the following pests: bacterial wilt, Fusarium wilt, Verticillium wilt, anthracnose (Race 1), Phytophthora root rot, and Aphanomyces root rot (Race 1 and Race 2). Parent plants contain tolerance to Roundup® (glyphosate) herbicide conferred by the CP4 5-enolpyruvylshikimate-3-phosphate synthase (cp4-epsps) transgene, specifically, the USDA deregulated Roundup Ready® alfalfa transgenic events J101 and/or J163 (OECD unique identifiers: MON-00101-8 and MON-00163-7, respectively).
2. This variety is adapted to the North Central and East Central regions. This variety has been tested in Wisconsin, Indiana, Pennsylvania and Iowa, and is intended for use in the North Central and East Central regions.
3. Test variety is Moderately Dormant, similar to FD4 check. Test variety is Very Winterhardy, similar to WS2 check. Flower color (Syn2) is 91% purple, 7% variegated and 2% cream with a trace of yellow and white. This variety has high multifoliolate leaf expression. Test variety is “Roundup Ready®” expressing tolerance to Roundup® herbicide conferred by the cp4-epsps transgene.
4. Test variety has high resistance to anthracnose (Race 1), bacterial wilt, Phytophthora root rot, Verticillium wilt, Fusarium wilt, Aphanomyces root rot (Race 1), pea aphid and spotted alfalfa aphid; with resistance to root-knot nematode (M. hapla) and stem nematode. Reaction to blue alfalfa aphid has not been tested.
5. Seed increase is on a limited generation basis with one generation each of breeder and foundation and two generations of certified seed classes. Breeder (Syn 1), foundation (Syn 2), and certified (Syn 2 or Syn 3) classes will be recognized. Production of Syn 2 foundation seed requires consent of the breeder. Breeder seed was produced in the field near Nampa, ID in 2003. Forage Genetics will maintain sufficient foundation seed for the projected life of the variety. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively. At least one glyphosate application is required during early stand establishment so that cp4-epsps null segregant plants are removed from the seed field prior to pollination. (Null segregant plants are the plants that do not contain the Roundup Ready® trait due to normal genetic segregation in this variety).
6. Certified seed will be marketed in 2006.
7. No decision has been made concerning Plant Variety Protection Act.
8. The information in this application may not be forwarded to the PVP office
9. Variety Name: V-45RR Date submitted November 21, 2005
Experimental designations: FG R43M701

Whitney

1. The selection criteria used in the development of this variety include forage yield, fall dormancy reaction, persistence and resistance to one or more of the following pests: bacterial wilt, Fusarium wilt, Verticillium wilt, stem nematode and Phytophthora root rot.
2. This variety is adapted to the Winterhardy Intermountain U.S. region. This variety has been tested in Idaho and Colorado, and is intended for use in Winterhardy Intermountain U.S. region.
3. Test variety is Moderately Dormant, similar to FD4 check. Test variety is Moderately Winterhardy, similar to WS3 check. Flower color (Syn2) is 90% purple, 6% variegated, 2% cream, 1% white and 1% yellow. This variety has high multifoliolate leaf expression.
4. This variety has high resistance to anthracnose (Race 1), bacterial wilt, Fusarium wilt, Verticillium wilt, Phytophthora root rot, stem nematode, pea aphid and root knot nematode (M. hapla); with resistance to spotted alfalfa aphid. Reaction to blue alfalfa aphid and Aphanomyces root rot (Race 1) has not been tested.
5. Seed increase is on a limited generation basis with one generation of breeder and two generations of foundation and certified seed classes. Breeder (Syn 1), foundation (Syn 2 or Syn 3), and certified (Syn 3 or Syn 4) classes will be recognized. Production of Syn 3 foundation seed requires consent of the breeder. Breeder seed was produced in the field near Nampa, ID in 2000. Forage Genetics will maintain sufficient foundation seed for the projected life of the variety. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively.
6. Certified seed will be marketed in 2005.
7. No decision has been made concerning Plant Variety Protection Act.
8. The information in this application may not be forwarded to the PVP office.

Variety Name	<u>Whitney</u>
Experimental Designation(s)	<u>FG 40W203</u>
Date NA&MLVRB first accepted this variety	<u>January 2005</u>
Date(s) previous amendments were accepted	<u>None</u>
Date amendment submitted	<u>November 1, 2005</u>

Withstand

1. The selection criteria used in the development of this variety include forage yield, persistence and resistance to one or more of the following pests: bacterial wilt, Fusarium wilt, Verticillium wilt, anthracnose, Phytophthora root rot, and Aphanomyces root rot (Race 1 and Race 2).
2. This variety is adapted to the North Central and East Central regions. This variety has been tested in Wisconsin, Indiana, Ohio and Iowa, and is intended for use in the North Central and East Central regions.
3. Test variety is Moderately Dormant, similar to FD4 check. Test variety is Very Winterhardy, similar to WS2 check. Flower color (Syn2) is 95% purple, 5% variegated with a trace of yellow, white and cream. This variety has high multifoliolate leaf expression.
4. Test variety has high resistance to anthracnose (Race 1), bacterial wilt, Phytophthora root rot, Verticillium wilt, Fusarium wilt, pea aphid, Aphanomyces root rot (Race 1) and Aphanomyces root rot (Race 2). Reaction to blue alfalfa aphid, spotted alfalfa aphid, root-knot nematode (*M. hapla*) and stem nematode has not been tested.
5. Seed increase is on a limited generation basis with one generation of breeder and two generations of foundation and certified seed classes. Breeder (Syn 1), foundation (Syn 2 or Syn 3), and certified (Syn 3 or Syn 4) classes will be recognized. Production of Syn 3 foundation seed requires consent of the breeder. Breeder seed was produced near Nampa, Idaho in 2002. Forage Genetics will maintain sufficient foundation seed for the projected life of the variety. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively.
6. Certified seed will be marketed in 2005.
7. No decision has been made concerning Plant Variety Protection Act.
8. The information in this application may not be forwarded to the PVP office.

Variety Name	<u>Withstand</u>
Experimental Designation(s)	<u>FG 42A114</u>
Date NA&MLVRB first accepted this variety	<u>January 2005</u>
Date(s) previous amendments were accepted	<u>None</u>
Date amendment submitted	<u>November 1, 2005</u>

WL 335HQ

1. The selection criteria used in the development of this variety include forage yield, forage quality, persistence and resistance to one or more of the following pests: bacterial wilt, Fusarium wilt, Verticillium wilt, anthracnose, Phytophthora root rot, and Aphanomyces root rot (Race 1 and Race 2).
2. This variety is adapted to North Central and East Central regions. This variety has been tested in Iowa, Wisconsin, New York, and Pennsylvania, and is intended for use in the North Central and East Central regions.
3. Test variety is Moderately Fall Dormant, similar to FD4 check. Test variety is Extremely Winterhardy, similar to WS1 check. Flower color (Syn2) is 92% purple, 8% variegated with a trace of yellow, white and cream. This variety has high multifoliolate leaf expression.
4. This variety has high resistance to anthracnose (Race 1), bacterial wilt, Fusarium wilt, Verticillium wilt, Phytophthora root rot, pea aphid, and Aphanomyces root rot (Race 1); moderate resistance to stem nematode and root-knot nematode (*M. hapla*); with resistance to spotted alfalfa aphid. Reaction to blue alfalfa aphid has not been tested.
5. Seed increase is on a limited generation basis with one generation of breeder and two generations of foundation and certified seed classes. Breeder (Syn 1), foundation (Syn 2 or Syn 3), and certified (Syn 3 or Syn 4) classes will be recognized. Production of Syn 3 foundation seed requires consent of the breeder. Breeder seed was produced in the greenhouse in 1999 and in the field near Nampa, ID in 2000. Forage Genetics will maintain sufficient foundation seed for the projected life of the variety. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively.
6. Certified seed will be marketed in 2004.
7. No decision has been made concerning Plant Variety Protection Act.
8. The information in this application may not be forwarded to the PVP office.

Variety Name	<u>WL 335HQ</u>
Experimental Designation(s)	<u>FG 40M158</u>
Date NA&MLVRB first accepted this variety	<u>January 2004</u>
Date(s) previous amendments were accepted	<u>None</u>
Date amendment submitted	<u>November 1, 2005</u>

WL 355RR

1. The selection criteria used in the development of this variety include forage yield, forage quality, persistence and resistance to one or more of the following pests: bacterial wilt, Fusarium wilt, Verticillium wilt, anthracnose (Race 1), Phytophthora root rot, and Aphanomyces root rot (Race 1 and Race 2). Parent plants contain tolerance to Roundup® (glyphosate) herbicide conferred by the CP4 5-enolpyruvylshikimate-3-phosphate synthase (cp4-epsps) transgene, specifically, the USDA deregulated Roundup Ready® alfalfa transgenic events J101 and/or J163 (OECD unique identifiers: MON-00101-8 and MON-00163-7, respectively).
2. This variety is adapted to the North Central and East Central regions. This variety has been tested in Wisconsin, Indiana, Pennsylvania and Iowa, and is intended for use in the North Central and East Central regions.
3. Test variety is Moderately Dormant, similar to FD4 check. Test variety is Very Winterhardy, similar to WS2 check. Flower color (Syn2) is 88% purple, 10% variegated and 2% cream with a trace of yellow and white. This variety has high multifoliolate leaf expression. Test variety is “Roundup Ready®” expressing tolerance to Roundup® herbicide conferred by the cp4-epsps transgene.
4. Test variety has high resistance to anthracnose (Race 1), bacterial wilt, Phytophthora root rot, Verticillium wilt, Fusarium wilt, Aphanomyces root rot (Race 1) and spotted alfalfa aphid; resistance to stem nematode and pea aphid; with moderate resistance to root-knot nematode (M. hapla). Reaction to blue alfalfa aphid has not been tested.
5. Seed increase is on a limited generation basis with one generation each of breeder and foundation and two generations of certified seed classes. Breeder (Syn 1), foundation (Syn 2), and certified (Syn 2 or Syn 3) classes will be recognized. Production of Syn 2 foundation seed requires consent of the breeder. Breeder seed was produced in the field near Nampa, ID in 2003. Forage Genetics will maintain sufficient foundation seed for the projected life of the variety. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively. At least one glyphosate application is required during early stand establishment so that cp4-epsps null segregant plants are removed from the seed field prior to pollination. (Null segregant plants are the plants that do not contain the Roundup Ready® trait due to normal genetic segregation in this variety).
6. Certified seed will be marketed in 2006.
7. No decision has been made concerning Plant Variety Protection Act.
8. The information in this application may not be forwarded to the PVP office.
9. Variety Name: WL 355RR Date submitted November 21, 2005
Experimental designations: FG R43M708

WL 535HQ

1. WL 535HQ is a 163-plant synthetic variety resulting from a cross between two elite experimental lines. Source material traces to WL 320, WL 457, WL 512, WL 450, and WL 451. Approximate germplasm source contributions are Arabian (24%), African (30%), Indian (10%), Chilean (16%), Turkistan (8%), Flemish (6%), Ladak (30/6), and *M. varia* (3%).
2. WL 535HQ is adapted to and intended for use in the southwestern United States. W320 has been tested in California.
3. Flower color of WL 535HQ at syn2 approximates 100% purple with a trace of variegated. The fall dormancy of WL 535HQ is similar to Pierce (Class 8)
4. WL 535HQ has high resistance to Fusarium wilt, Verticillium wilt, Phytophthora root rot, and spotted alfalfa aphid; and resistance to stem nematode and southern root knot nematode. Reaction to anthracnose (race 1), bacterial wilt, blue alfalfa aphid, pea aphid, northern root knot nematode, and Aphanomyces root rot (race 1) has not been adequately tested.
5. Breeder seed (syn1) was produced in 1996 on 163 plants under cage isolation at Warden, Washington. Sufficient foundation (syn2) seed will be produced for the expected life of the variety and will be maintained by W-L Research. One generation of breeder (syn1), two generations of foundation (syn2 or 3) and three generations of certified (syn2, 3 or 4) seed are recognized. The maximum permitted length of stand for foundation and certified seed fields are three and five years, respectively. Production of syn3 foundation seed requires consent of the breeder.
6. Certified seed will be marketed in 2000.
7. It is undecided whether application will be made for Plant Variety Protection.
8. The information in this application can be turned over to the PVP office.

Variety Name	<u>WL 535HQ</u>
Experimental Designation(s)	<u>W320</u>
Date NA&MLVRB first accepted this variety	<u>January 2000</u>
Date(s) previous amendments were accepted	<u>None</u>
Date amendment submitted	<u>November 1, 2005</u>

WL 550RR

1. The selection criteria used in the development of this variety include Roundup tolerance, forage yield, winter-active growth, persistence and resistance to one or more of the following pests: bacterial wilt, Fusarium wilt, Verticillium wilt, anthracnose (Race 1), Phytophthora root rot, and Aphanomyces root rot (Race 1 and/or Race 2). Parent plants contain tolerance to Roundup® (glyphosate) herbicide conferred by the CP4 5-enolpyruvylshikimate-3-phosphate synthase (cp4-epsps) transgene, specifically, the USDA deregulated Roundup Ready® alfalfa transgenic events J101 and/or J163 (OECD unique identifiers: MON-00101-8 and MON-00163-7, respectively).
2. This variety is adapted to California and the low desert areas of the West. This variety has been tested in California. It will be used in the Southwest.
3. Test variety has fall dormancy similar to FD8 checks. Flower color (Syn2) is 100% purple with a trace of yellow, white, cream and variegated. Test variety is “Roundup Ready®” expressing tolerance to Roundup® herbicide conferred by the cp4-epsps transgene.
4. This variety has high resistance to anthracnose (Race 1), bacterial wilt, Fusarium wilt, Phytophthora root rot, pea aphid and blue alfalfa aphid; resistance to spotted alfalfa aphid, root knot nematode (*M. hapla*) and stem nematode; and moderate resistance to Verticillium wilt. Reaction to Aphanomyces root rot has not been tested.
5. Seed increase is on a limited generation basis with one generation of breeder and two generations of foundation and certified seed classes. Breeder (Syn 1), foundation (Syn 2), and certified (Syn 2 or Syn 3) classes will be recognized. Breeder seed was produced in the field near Nampa, ID in 2003. Forage Genetics will maintain sufficient foundation seed for the projected life of the variety. Production of Syn2 foundation seed requires the consent of the breeder. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively. At least one glyphosate application is required during early stand establishment so that cp4-epsps null segregant plants are removed from the seed field prior to pollination. (Null segregant plants are the plants that do not contain the Roundup Ready® trait due to normal genetic segregation in this variety).
6. Certified seed will be marketed in 2006.
7. No decision has been made concerning Plant Variety Protection Act.
8. The information in this application may not be forwarded to the PVP office.
9. Variety Name: WL 550RR Submitted: November 21, 2005

Experimental designations: FG R83T906; RR03BD-101

YieldMaster RR

1. The selection criteria used in the development of this variety include forage yield, forage quality, persistence and resistance to one or more of the following pests: bacterial wilt, Fusarium wilt, Verticillium wilt, anthracnose (Race 1), Phytophthora root rot, and Aphanomyces root rot (Race 1 and Race 2). Parent plants contain tolerance to Roundup® (glyphosate) herbicide conferred by the CP4 5-enolpyruvylshikimate-3-phosphate synthase (cp4-epsps) transgene, specifically, the USDA deregulated Roundup Ready® alfalfa transgenic events J101 and/or J163 (OECD unique identifiers: MON-00101-8 and MON-00163-7, respectively).
2. This variety is adapted to the North Central and East Central regions. This variety has been tested in Wisconsin, Indiana, Pennsylvania and Iowa, and is intended for use in the North Central and East Central regions.
3. Test variety is Moderately Dormant, similar to FD4 check. Test variety is Very Winterhardy, similar to WS2 check. Flower color (Syn2) is 88% purple, 10% variegated and 2% cream with a trace of yellow and white. This variety has high multifoliolate leaf expression. Test variety is “Roundup Ready®” expressing tolerance to Roundup® herbicide conferred by the cp4-epsps transgene.
4. Test variety has high resistance to anthracnose (Race 1), bacterial wilt, Phytophthora root rot, Verticillium wilt, Fusarium wilt and Aphanomyces root rot (Race 1); with resistance to root-knot nematode (*M. hapla*), stem nematode and pea aphid. Reaction to blue alfalfa aphid and spotted alfalfa aphid has not been tested.
5. Seed increase is on a limited generation basis with one generation each of breeder and foundation and two generations of certified seed classes. Breeder (Syn 1), foundation (Syn 2), and certified (Syn 2 or Syn 3) classes will be recognized. Production of Syn 2 foundation seed requires consent of the breeder. Breeder seed was produced in the field near Nampa, ID in 2003. Forage Genetics will maintain sufficient foundation seed for the projected life of the variety. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively. At least one glyphosate application is required during early stand establishment so that cp4-epsps null segregant plants are removed from the seed field prior to pollination. (Null segregant plants are the plants that do not contain the Roundup Ready® trait due to normal genetic segregation in this variety).
6. Certified seed will be marketed in 2006.
7. No decision has been made concerning Plant Variety Protection Act.
8. The information in this application may not be forwarded to the PVP office
9. Variety Name: YieldMaster RR Date submitted November 21, 2005
Experimental designations: FG R43M628

FG 40W206

1. The selection criteria for this variety include forage yield, fall dormancy reaction, persistence and resistance to one or more of the following pests: bacterial wilt, Fusarium wilt, Verticillium wilt, stem nematode and Phytophthora root.
2. This variety is adapted to the Winterhardy Intermountain region. This variety has been tested in Idaho and Colorado and is intended for use in Winterhardy Intermountain region.
3. Test variety is moderately Fall Dormant, similar to FD4 check. Test variety is very Winterhardy, similar to WS2 check. Flower color (Syn2) is 77% purple, 10% variegated, 2% yellow, 2% cream and 9% white. This variety has moderate multifoliolate leaf expression.
4. This variety has high resistance to anthracnose (Race 1), bacterial wilt, Verticillium wilt, Phytophthora root rot, pea aphid, spotted alfalfa aphid, stem nematode; with resistance to Fusarium wilt and root-knot nematode (M. hapla). Reaction to Aphanomyces root rot and blue alfalfa aphid has not been tested.
5. Seed increase is on a limited generation basis with one generation of breeder and two generations of foundation and certified seed classes. Breeder (Syn 1), foundation (Syn 2 or Syn 3), and certified (Syn 3 or Syn 4) classes will be recognized. Production of Syn 3 foundation seed requires consent of the breeder. Breeder seed was produced in the field near Nampa, ID in 2000. Forage Genetics will maintain sufficient foundation seed for the projected life of the variety. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively.
6. Certified seed will be marketed in 2006.
7. No decision has been made concerning Plant Variety Protection Act.
8. The information in this application may not be forwarded to the PVP office.
9. Variety Name: _____ Date submitted: November 21, 2005
Experimental designations: FG 40W206

FG 42H190

1. The selection criteria used in the development of this variety include forage yield, forage quality, persistence and resistance to one or more of the following pests: bacterial wilt, Fusarium wilt, Verticillium wilt, anthracnose (Race 1), Phytophthora root rot, Aphanomyces root rot (Race 1 and or Race 2) and potato leafhopper.
2. This variety is adapted to the North Central and East Central regions. This variety has been tested in Indiana, Pennsylvania, Ohio and Iowa, and is intended for use in the North Central and East Central regions.
3. Test variety is Moderately Dormant, similar to FD4 check. Test variety is very Winterhardy, similar to WS2 check. Flower color (Syn2) is 34% purple, 47% variegated, 9% white, 3% cream and 7% yellow.
4. Test variety has high resistance to anthracnose (Race 1), bacterial wilt, Phytophthora root rot, Verticillium wilt, Fusarium wilt, Aphanomyces root rot (Race 1), pea aphid and potato leafhopper; resistance to stem nematode; with moderate resistance to root-knot nematode (*M. hapla*). Reaction to blue alfalfa aphid and spotted alfalfa aphid has not been tested.
5. Seed increase is on a limited generation basis with one generation of breeder and two generations of foundation and certified seed classes. Breeder (Syn 1), foundation (Syn 2 or Syn 3), and certified (Syn 3 or Syn 4) classes will be recognized. Production of Syn 3 foundation seed requires consent of the breeder. Breeder seed was produced near Nampa, Idaho in 2002. Forage Genetics will maintain sufficient foundation seed for the projected life of the variety. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively.
6. Certified seed will be marketed in 2006.
7. No decision has been made concerning Plant Variety Protection Act.
8. The information in this application may not be forwarded to the PVP office
9. Variety Name: _____ Date submitted November 21, 2005
Experimental designations: FG 42H190

FG 42W205

1. The selection criteria for this variety included forage yield, fall dormancy reaction, persistence and resistance to stem nematode and root knot nematode (M. hapla).
 2. This variety is adapted to the Winterhardy and Moderately Intermountain regions. This variety has been tested in Idaho, Washington and Colorado and is intended for use in Winterhardy and Moderately Winterhardy Intermountain regions.
 3. Test variety is Moderately Fall Dormant, similar to FD4 check. Flower color (Syn2) is 89% purple, 5% variegated, 1% yellow, 2% white and 3% cream. This variety has high multifoliolate leaf expression.
 4. This variety has high resistance to anthracnose (Race 1), Fusarium wilt, Phytophthora root rot, Verticillium wilt, stem nematode, pea aphid, root-knot nematode (M. hapla) and Aphanomyces root rot (Race 1); with resistance to bacterial wilt and spotted alfalfa aphid. Reaction to blue alfalfa aphid has not been tested.
 5. Seed increase is on a limited generation basis with one generation of breeder and two generations of foundation and certified seed classes. Breeder (Syn 1), foundation (Syn 2 or Syn 3), and certified (Syn 3 or Syn 4) classes will be recognized. Production of Syn 3 foundation seed requires consent of the breeder. Breeder seed was produced in the field near Nampa, ID in 2002. Forage Genetics will maintain sufficient foundation seed for the projected life of the variety. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively.
 6. Certified seed will be marketed in 2006.
 7. No decision has been made concerning Plant Variety Protection Act.
 8. The information in this application may not be forwarded to the PVP office.
 9. Variety Name: _____ Date submitted November 21, 2005
- Experimental designations: FG 42W205

FG 43A131

1. The selection criteria used in the development of this variety include forage yield, forage quality, persistence and resistance to one or more of the following pests: bacterial wilt, Fusarium wilt, Verticillium wilt, anthracnose (Race 1), Phytophthora root rot and Aphanomyces root rot (Race 1 and Race 2).
2. This variety is adapted to the North Central and East Central regions. This variety has been tested in Wisconsin, Pennsylvania, Indiana and Iowa, and is intended for use in the North Central and East Central regions.
3. Test variety is moderately Dormant, similar to FD4 check. Test variety is extremely Winterhardy, similar to WS1 check. Flower color (Syn2) is 92% purple, 5% variegated, 2% white, 1% yellow with a trace of cream. This variety has high multifoliolate leaf expression.
4. Test variety has high resistance to anthracnose (Race 1), bacterial wilt, Phytophthora root rot, Verticillium wilt, Fusarium wilt, Aphanomyces root rot (Race 1) and Aphanomyces root rot (Race 2); with resistance to pea aphid and stem nematode. Reaction to blue alfalfa aphid, root-knot nematode (M. hapla) and spotted alfalfa aphid has not been tested.
5. Seed increase is on a limited generation basis with one generation of breeder and two generations of foundation and certified seed classes. Breeder (Syn 1), foundation (Syn 2 or Syn 3), and certified (Syn 3 or Syn 4) classes will be recognized. Production of Syn 3 foundation seed requires consent of the breeder. Breeder seed was produced near Nampa, Idaho in 2003. Forage Genetics will maintain sufficient foundation seed for the projected life of the variety. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively.
6. Certified seed will be marketed in 2006.
7. No decision has been made concerning Plant Variety Protection Act.
8. The information in this application may not be forwarded to the PVP office
9. Variety Name: _____ Date submitted November 21, 2005
Experimental designations: FG 43A131

FG 43M120

1. The selection criteria used in the development of this variety include forage yield, forage quality, persistence and resistance to one or more of the following pests: bacterial wilt, Fusarium wilt, Verticillium wilt, anthracnose (Race 1), Phytophthora root rot, and Aphanomyces root rot (Race 1 and Race 2).
2. This variety is adapted to the North Central and East Central regions. This variety has been tested in Wisconsin, Pennsylvania, Indiana and Iowa, and is intended for use in the North Central and East Central regions.
3. Test variety is Moderately Dormant, similar to FD4 check. Test variety is Extremely Winterhardy, similar to WS1 check. Flower color (Syn2) is 92% purple, 8% variegated, with a trace of white, cream and yellow. This variety has high multifoliolate leaf expression.
4. Test variety has high resistance to anthracnose (Race 1), bacterial wilt, Phytophthora root rot, Verticillium wilt, Fusarium wilt and Aphanomyces root rot (Race 1); with resistance to pea aphid and stem nematode. Reaction to root-knot nematode, blue alfalfa aphid and spotted alfalfa aphid has not been tested.
5. Seed increase is on a limited generation basis with one generation of breeder and two generations of foundation and certified seed classes. Breeder (Syn 1), foundation (Syn 2 or Syn 3), and certified (Syn 3 or Syn 4) classes will be recognized. Production of Syn 3 foundation seed requires consent of the breeder. Breeder seed was produced near Nampa, Idaho in 2003. Forage Genetics will maintain sufficient foundation seed for the projected life of the variety. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively.
6. Certified seed will be marketed in 2006.
7. No decision has been made concerning Plant Variety Protection Act.
8. The information in this application may not be forwarded to the PVP office
9. Variety Name: _____ Date submitted November 21, 2005

Experimental designations: FG 43M120

FG 50W210

1. The selection criteria for this variety include forage yield, fall dormancy reaction, persistence and resistance to one or more of the following pests: bacterial wilt, Fusarium wilt, Verticillium wilt, stem nematode and Phytophthora root.
2. This variety is adapted to the Winterhardy Intermountain region. This variety has been tested in Idaho and Colorado and is intended for use in the Winterhardy Intermountain region.
3. Test variety is Moderately Fall Dormant, similar to FD5 check. Test variety is Moderately Winterhardy, similar to WS3 check. Flower color (Syn2) is 89% purple, 8% variegated, 1% yellow, 1% white and 1% cream. This variety has moderate multifoliolate leaf expression.
4. This variety has high resistance to anthracnose (Race 1), Fusarium wilt, Verticillium wilt, Phytophthora root rot, stem nematode, root-knot nematode (M. hapla) and spotted alfalfa aphid; with resistance to bacterial wilt and pea aphid. Reaction to Aphanomyces root rot and blue alfalfa aphid has not been tested.
5. Seed increase is on a limited generation basis with one generation of breeder and two generations of foundation and certified seed classes. Breeder (Syn 1), foundation (Syn 2 or Syn 3), and certified (Syn 3 or Syn 4) classes will be recognized. Production of Syn 3 foundation seed requires consent of the breeder. Breeder seed was produced in the field near Nampa, ID in 2000. Forage Genetics will maintain sufficient foundation seed for the projected life of the variety. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively.
6. Certified seed will be marketed in 2006.
7. No decision has been made concerning Plant Variety Protection Act.
8. The information in this application may not be forwarded to the PVP office.
9. Variety Name: _____ Date submitted: November 21, 2005
Experimental designations: FG 50W210

FG 61T011

1. This variety was selected for winter-active growth, high forage yield and persistence from older trials and/or nurseries.
2. This variety is adapted to California and the low desert areas of the Southwest U.S. This variety has been tested in California and Idaho. It will be used in the Southwest.
3. This variety has fall dormancy similar to FD6 checks. Flower color (Syn2) is 100% purple with traces of variegated, yellow, white, and cream.
4. This variety has high resistance to anthracnose (Race 1), Phytophthora root rot, spotted alfalfa aphid and blue alfalfa aphid; resistance to Fusarium wilt, Verticillium wilt and pea aphid; with moderate resistance to bacterial wilt and Aphanomyces root rot (Race 1). Reaction to root-knot nematode and stem nematode has not been tested.
5. Seed increase is on a limited generation basis with one generation of breeder and two generations of foundation and certified seed classes. Breeder (Syn 1), foundation (Syn 2 or Syn 3), and certified (Syn 3 or Syn 4) classes will be recognized. Production of Syn 3 foundation seed requires consent of the breeder. Breeder seed was produced in the field near Nampa, ID in 2001. Forage Genetics will maintain sufficient foundation seed for the projected life of the variety. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively.
6. Certified seed will be marketed in 2006.
7. No decision has been made concerning Plant Variety Protection Act.
8. The information in this application may not be forwarded to the PVP office.
9. Variety Name: _____ Date submitted November 21, 2005

Experimental designations: FG 61T011 ; FG 71T011

FG 71T004

1. This variety was selected for winter-active growth, high forage yield and persistence from older trials and/or nurseries.
2. This variety is adapted to California and the low desert areas of the Southwest. This variety has been tested in California. It will be used in the Southwest.
3. Test variety has fall dormancy similar to FD6 checks. Flower color (Syn2) is 100% purple with traces of white, cream, variegated and yellow.
4. This variety has high resistance to pea aphid, spotted alfalfa aphid, blue alfalfa aphid and root-knot nematode (*M. hapla*); resistance to anthracnose (Race 1), Fusarium wilt, Phytophthora root rot and stem nematode; with moderate resistance to Verticillium wilt and Aphanomyces root rot (Race 1). Reaction to bacterial wilt has not been tested.
5. Seed increase is on a limited generation basis with one generation of breeder and two generations of foundation and certified seed classes. Breeder (Syn 1), foundation (Syn 2 or Syn 3), and certified (Syn 3 or Syn 4) classes will be recognized. Production of Syn 3 foundation seed requires consent of the breeder. Breeder seed was produced in the field near Nampa, ID in 2001. Forage Genetics will maintain sufficient foundation seed for the projected life of the variety. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively.
6. Certified seed will be marketed in 2006.
7. No decision has been made concerning Plant Variety Protection Act.
8. The information in this application may not be forwarded to the PVP office.
9. Variety Name: _____ Date submitted November 21, 2005

Experimental designations: FG 71T004

FG 81T010

1. This variety was selected for winter-active growth, high forage yield and persistence from older trials and/or nurseries.
2. This variety is adapted to California and the low desert areas of the Southwest. This variety has been tested in California. It will be used in the Southwest.
3. Test variety has fall dormancy similar to FD8 checks. Flower color (Syn2) is 100% purple with traces of cream, variegated, cream and yellow.
4. This variety has high resistance to Fusarium wilt, Phytophthora root rot, pea aphid, spotted alfalfa aphid and blue alfalfa aphid; resistance to anthracnose (Race 1) and stem nematode; moderate resistance to Verticillium wilt; with low resistance to Aphanomyces root rot (Race 1). Reaction to bacterial wilt and root-knot nematode has not been tested.
5. Seed increase is on a limited generation basis with one generation of breeder and two generations of foundation and certified seed classes. Breeder (Syn 1), foundation (Syn 2 or Syn 3), and certified (Syn 3 or Syn 4) classes will be recognized. Production of Syn 3 foundation seed requires consent of the breeder. Breeder seed was produced in the field near Nampa, ID in 2001. Forage Genetics will maintain sufficient foundation seed for the projected life of the variety. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively.
6. Certified seed will be marketed in 2006.
7. No decision has been made concerning Plant Variety Protection Act.
8. The information in this application may not be forwarded to the PVP office.
9. Variety Name: _____ Date submitted November 21, 2005

Experimental designations: FG 81T010, FG 91T010

FG 92T030

1. This variety was selected for winter-active growth, high forage yield and persistence from older trials and/or nurseries.
2. This variety is adapted to California and the low desert areas of the Southwest. This variety has been tested in California. It will be used in the Southwest.
3. Test variety has fall dormancy similar to FD9 checks. Flower color (Syn2) is 100% purple with traces of white, cream, yellow and variegated.
4. This variety has high resistance to Fusarium wilt, pea aphid, spotted alfalfa aphid and root-knot nematode (*M. hapla*); with resistance to anthracnose (Race 1), bacterial wilt, *Phytophthora* root rot, blue alfalfa aphid and stem nematode. Reaction to *Verticillium* wilt and *Aphanomyces* root rot has not been tested.
5. Seed increase is on a limited generation basis with one generation of breeder and two generations of foundation and certified seed classes. Breeder (Syn 1), foundation (Syn 2 or Syn 3), and certified (Syn 3 or Syn 4) classes will be recognized. Production of Syn 3 foundation seed requires consent of the breeder. Breeder seed was produced in the field near Nampa, ID in 2002. Forage Genetics will maintain sufficient foundation seed for the projected life of the variety. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively.
6. Certified seed will be marketed in 2006.
7. No decision has been made concerning Plant Variety Protection Act.
8. The information in this application may not be forwarded to the PVP office.
9. Variety Name: _____ Date submitted November 21, 2005

Experimental designations: FG 92T030

FG 92T032

1. This variety was selected for winter-active growth, high forage yield and persistence.
 2. This variety is adapted to California and the low desert areas of the Southwest. This variety has been tested in California. It will be used in the Southwest.
 3. Test variety has fall dormancy similar to FD9 checks. Flower color (Syn2) is 100% purple with traces of white, cream, yellow and variegated.
 4. This variety has high resistance to Fusarium wilt, pea aphid, spotted alfalfa aphid, root-knot nematode (*M. hapla*) and stem nematode; resistance to, *Phytophthora* root rot and blue alfalfa aphid; and moderate resistance to anthracnose (Race 1) and bacterial wilt. Reaction to *Verticillium* wilt and *Aphanomyces* root rot has not been tested
 5. Seed increase is on a limited generation basis with one generation of breeder and two generations of foundation and certified seed classes. Breeder (Syn 1), foundation (Syn 2 or Syn 3), and certified (Syn 3 or Syn 4) classes will be recognized. Production of Syn 3 foundation seed requires consent of the breeder. Breeder seed was produced in the field near Nampa, ID in 2002. Forage Genetics will maintain sufficient foundation seed for the projected life of the variety. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively.
 6. Certified seed will be marketed in 2006.
 7. No decision has been made concerning Plant Variety Protection Act.
 8. The information in this application may not be forwarded to the PVP office.
 9. Variety Name: _____ Date submitted November 21, 2005
- Experimental designations: FG 92T032, FG 102T032

FG R43M627

1. The selection criteria used in the development of this variety include forage yield, forage quality, persistence and resistance to one or more of the following pests: bacterial wilt, Fusarium wilt, Verticillium wilt, anthracnose (Race 1), Phytophthora root rot, and Aphanomyces root rot (Race 1 and Race 2). Parent plants contain tolerance to Roundup® (glyphosate) herbicide conferred by the CP4 5-enolpyruvylshikimate-3-phosphate synthase (cp4-epsps) transgene, specifically, the USDA deregulated Roundup Ready® alfalfa transgenic events J101 and/or J163 (OECD unique identifiers: MON-00101-8 and MON-00163-7, respectively).
2. This variety is adapted to the North Central and East Central regions. This variety has been tested in Wisconsin, Indiana, Pennsylvania and Iowa, and is intended for use in the North Central and East Central regions.
3. Test variety is Moderately Dormant, similar to FD4 check. Test variety is Very Winterhardy, similar to WS2 check. Flower color (Syn2) is 85% purple, 13% variegated and 2% cream with a trace of yellow and white. This variety has high multifoliolate leaf expression. Test variety is “Roundup Ready®” expressing tolerance to Roundup® herbicide conferred by the cp4-epsps transgene.
4. Test variety has high resistance to anthracnose (Race 1), bacterial wilt, Phytophthora root rot, Verticillium wilt, Fusarium wilt and Aphanomyces root rot (Race 1); with resistance to root-knot nematode (M. hapla), stem nematode and pea aphid. Reaction to blue alfalfa aphid and spotted alfalfa aphid has not been tested.
5. Seed increase is on a limited generation basis with one generation each of breeder and foundation and two generations of certified seed classes. Breeder (Syn 1), foundation (Syn 2), and certified (Syn 2 or Syn 3) classes will be recognized. Production of Syn 2 foundation seed requires consent of the breeder. Breeder seed was produced in the field near Nampa, ID in 2003. Forage Genetics will maintain sufficient foundation seed for the projected life of the variety. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively. At least one glyphosate application is required during early stand establishment so that cp4-epsps null segregant plants are removed from the seed field prior to pollination. (Null segregant plants are the plants that do not contain the Roundup Ready® trait due to normal genetic segregation in this variety).
6. Certified seed will be marketed in 2006.
7. No decision has been made concerning Plant Variety Protection Act.
8. The information in this application may not be forwarded to the PVP office
9. Variety Name: _____ Date submitted November 21, 2005

Experimental designations: FG R43M627

FG R43M704

1. The selection criteria used in the development of this variety include forage yield, forage quality, persistence and resistance to one or more of the following pests: bacterial wilt, Fusarium wilt, Verticillium wilt, anthracnose (Race 1), Phytophthora root rot, and Aphanomyces root rot (Race 1 and Race 2). Parent plants contain tolerance to Roundup® (glyphosate) herbicide conferred by the CP4 5-enolpyruvylshikimate-3-phosphate synthase (cp4-epsps) transgene, specifically, the USDA deregulated Roundup Ready® alfalfa transgenic events J101 and/or J163 (OECD unique identifiers: MON-00101-8 and MON-00163-7, respectively).
2. This variety is adapted to the North Central and East Central regions. This variety has been tested in Wisconsin, Indiana, Pennsylvania and Iowa, and is intended for use in the North Central and East Central regions.
3. Test variety is Moderately Dormant, similar to FD4 check. Test variety is Very Winterhardy, similar to WS2 check. Flower color (Syn2) is 92% purple, 4% variegated, 2% cream and 2% yellow with a trace of white. This variety has high multifoliolate leaf expression. Test variety is "Roundup Ready®" expressing tolerance to Roundup® herbicide conferred by the cp4-epsps transgene.
4. Test variety has high resistance to anthracnose (Race 1), bacterial wilt, Phytophthora root rot, Verticillium wilt, Fusarium wilt and Aphanomyces root rot (Race 1); with resistance to root-knot nematode (M. hapla), pea aphid and stem nematode. Reaction to blue alfalfa aphid and spotted alfalfa aphid has not been tested.
5. Seed increase is on a limited generation basis with one generation each of breeder and foundation and two generations of certified seed classes. Breeder (Syn 1), foundation (Syn 2), and certified (Syn 2 or Syn 3) classes will be recognized. Production of Syn 2 foundation seed requires consent of the breeder. Breeder seed was produced in the field near Nampa, ID in 2003. Forage Genetics will maintain sufficient foundation seed for the projected life of the variety. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively. At least one glyphosate application is required during early stand establishment so that cp4-epsps null segregant plants are removed from the seed field prior to pollination. (Null segregant plants are the plants that do not contain the Roundup Ready® trait due to normal genetic segregation in this variety).
6. Certified seed will be marketed in 2006.
7. No decision has been made concerning Plant Variety Protection Act.
8. The information in this application may not be forwarded to the PVP office.
9. Variety Name: _____ Date submitted November 21, 2005
Experimental designations: FG R43M704

FG R43M705

1. The selection criteria used in the development of this variety include forage yield, forage quality, persistence and resistance to one or more of the following pests: bacterial wilt, Fusarium wilt, Verticillium wilt, anthracnose (Race 1), Phytophthora root rot, and Aphanomyces root rot (Race 1 and Race 2). Parent plants contain tolerance to Roundup® (glyphosate) herbicide conferred by the CP4 5-enolpyruvylshikimate-3-phosphate synthase (cp4-epsps) transgene, specifically, the USDA deregulated Roundup Ready® alfalfa transgenic events J101 and/or J163 (OECD unique identifiers: MON-00101-8 and MON-00163-7, respectively).
2. This variety is adapted to the North Central and East Central regions. This variety has been tested in Wisconsin, Indiana, Pennsylvania and Iowa, and is intended for use in the North Central and East Central regions.
3. Test variety is Moderately Dormant, similar to FD4 check. Test variety is Very Winterhardy, similar to WS2 check. Flower color (Syn2) is 89% purple, 6% variegated, 3% cream and 2% yellow with a trace of white. This variety has high multifoliolate leaf expression. Test variety is “Roundup Ready®” expressing tolerance to Roundup® herbicide conferred by the cp4-epsps transgene.
4. Test variety has high resistance to anthracnose (Race 1), bacterial wilt, Phytophthora root rot, Verticillium wilt, Fusarium wilt and Aphanomyces root rot (Race 1); with resistance to root-knot nematode (M. hapla), pea aphid, stem nematode and spotted alfalfa aphid. Reaction to blue alfalfa aphid has not been tested.
5. Seed increase is on a limited generation basis with one generation each of breeder and foundation and two generations of certified seed classes. Breeder (Syn 1), foundation (Syn 2), and certified (Syn 2 or Syn 3) classes will be recognized. Production of Syn 2 foundation seed requires consent of the breeder. Breeder seed was produced in the field near Nampa, ID in 2003. Forage Genetics will maintain sufficient foundation seed for the projected life of the variety. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively. At least one glyphosate application is required during early stand establishment so that cp4-epsps null segregant plants are removed from the seed field prior to pollination. (Null segregant plants are the plants that do not contain the Roundup Ready® trait due to normal genetic segregation in this variety).
6. Certified seed will be marketed in 2006.
7. No decision has been made concerning Plant Variety Protection Act.
8. The information in this application may not be forwarded to the PVP office.
9. Variety Name: _____ Date submitted November 21, 2005

Experimental designations: FG R43M705

FG R43M712

1. The selection criteria used in the development of this variety include forage yield, forage quality, persistence and resistance to one or more of the following pests: bacterial wilt, Fusarium wilt, Verticillium wilt, anthracnose (Race 1), Phytophthora root rot, and Aphanomyces root rot (Race 1 and Race 2). Parent plants contain tolerance to Roundup® (glyphosate) herbicide conferred by the CP4 5-enolpyruvylshikimate-3-phosphate synthase (cp4-epsps) transgene, specifically, the USDA deregulated Roundup Ready® alfalfa transgenic events J101 and/or J163 (OECD unique identifiers: MON-00101-8 and MON-00163-7, respectively).
2. This variety is adapted to the North Central, East Central and Winterhardy Intermountain regions. This variety has been tested in Wisconsin, Idaho, Pennsylvania and Washington, and is intended for use in the North Central, East Central and Winterhardy Intermountain regions.
3. Test variety is Moderately Dormant, similar to FD4 check. Test variety is Very Winterhardy, similar to WS2 check. Flower color (Syn2) is 90% purple, 9% variegated and 1% yellow with a trace of cream and white. This variety has high multifoliolate leaf expression. Test variety is “Roundup Ready®” expressing tolerance to Roundup® herbicide conferred by the cp4-epsps transgene.
4. Test variety has high resistance to anthracnose (Race 1), bacterial wilt, Phytophthora root rot, Verticillium wilt, Fusarium wilt, Aphanomyces root rot (Race 1) and pea aphid; with resistance to stem nematode and root-knot nematode (M. hapla). Reaction to blue alfalfa aphid and spotted alfalfa aphid has not been tested.
5. Seed increase is on a limited generation basis with one generation each of breeder and foundation and two generations of certified seed classes. Breeder (Syn 1), foundation (Syn 2), and certified (Syn 2 or Syn 3) classes will be recognized. Production of Syn 2 foundation seed requires consent of the breeder. Breeder seed was produced in the field near Nampa, ID in 2003. Forage Genetics will maintain sufficient foundation seed for the projected life of the variety. Stands of foundation and certified seed fields are limited to 3 and 6 years, respectively. At least one glyphosate application is required during early stand establishment so that cp4-epsps null segregant plants are removed from the seed field prior to pollination. (Null segregant plants are the plants that do not contain the Roundup Ready® trait due to normal genetic segregation in this variety).
6. Certified seed will be marketed in 2006.
7. No decision has been made concerning Plant Variety Protection Act.
8. The information in this application may not be forwarded to the PVP office.
9. Variety Name: _____ Date submitted November 21, 2005
Experimental designations: FG R43M712

L 447HD

1. L 447HD is an 82 plant synthetic cultivar. The selection criteria used in the development of this cultivar were high forage yield, high forage quality, rapid re-growth after harvest, winter survival, and freedom from root and crown diseases.
2. L 447HD is adapted to the North Central and East Central regions of the United States. It will be used primarily for hay, haylage, and dehydration. It has been tested in Wisconsin. This variety is intended for use in the North Central and East Central regions of the U.S.
3. L 447HD is a moderately fall dormant cultivar with a fall dormancy similar to the FD 4 check. Flower color in the Syn 2 generation is approximately 98% purple and 2% variegated with traces of yellow, cream and white.
4. This variety is highly resistant to anthracnose (race 1), bacterial wilt, Fusarium wilt, Phytophthora root rot, and Aphanomyces root rot (race 1). It is resistant to Verticillium wilt. Resistance to pea aphid, spotted alfalfa aphid, blue alfalfa aphid, stem nematode, and root-knot nematode has not been determined.
5. Seed classes for L 447HD will be breeder (Syn 1), foundation (Syn 2), and certified (Syn 2 or Syn 3). Stand life will be limited to 1, 3, and 6 years on fields producing breeder, foundation, and certified seed classes, respectively. Breeder seed was produced near Nampa, ID in 2002. Legacy Seeds, Inc. will maintain sufficient seed stocks for the life of this variety.
6. Seed will be marketed in 2006.
7. Plant Variety Protection will not be applied for.
8. This information can be forwarded to the PVP office.
9. Variety Name: L 447HD Date submitted 16 November 2005

Experimental designations: LS 206

01N09PL2

1. 01N09PL2 is a 63 plant population derived from a strain cross of multiple Pioneer breeding lines. These parent lines were phenotypically selected for stem nematode and Northern root-knot nematode as well as for one or more of the following: anthracnose race 1, Phytophthora root rot, Aphanomyces root rot (races 1 and 2), bacterial wilt, Fusarium wilt, Verticillium wilt, and spotted alfalfa aphid. Parent plants were also selected phenotypically for field vigor, field appearance, and fall dormancy.
2. 01N09PL2 area of probable adaptation is the North Central, East Central, Moderately Winterhardy Intermountain, Winterhardy Intermountain, Great Plains regions of the United States and Ontario, Canada with the primary purpose being hay, haylage, greenchop or dehydration. 01N09PL2 has been tested for yield in Iowa, Illinois, Minnesota, Washington, Wisconsin and Ontario Canada.
3. 01N09PL2 is a dormant cultivar with fall dormancy similar to FD-4 check. Flower color in the Syn 2 generation is 92% purple, 8% variegated, with traces of yellow, white and cream found.
4. 01N09PL2 is highly resistant to anthracnose (Race 1), bacterial wilt, Verticillium wilt, Phytophthora root rot, pea aphid, stem nematode, and Northern root-knot nematode; resistant to Fusarium wilt, spotted alfalfa aphid and Aphanomyces root rot (Race 1); moderate resistance to Aphanomyces root rot (Race 2). 01N09PL2 has not been tested for blue alfalfa aphid resistance.
5. Breeder seed (Syn 2) was produced from 248 random plants started as seedlings in the greenhouse, and transplanted to cage in the Pacific Northwest during the summer of 2001. Seed classes will be breeder (Syn 2), foundation (Syn 2 or 3), and certified (Syn 3, 4, or 5). Foundation seed may be produced from breeder or foundation. The second generation foundation seed may be produced at the discretion of Pioneer Hi-Bred International, Inc. Limitations of age of stand will be one, three and five years, respectively, for breeder, foundation and certified seed. Pioneer Hi-Bred International will maintain breeder seed for the life of the cultivar.
6. Seed will be marketed in the spring of 2007.
7. Application for Plant Variety Protection may be made and the certification option will not be requested.
8. As a means of added varietal protection, information included with the Application for Review of Alfalfa Varieties for Certification may be provided to the PVP office.
9. Variety name: 01N09PL2 Date submitted: November 30, 2005

Experimental designation: N00SL78

53H92

1. 53H92 is an 18 clone synthetic cultivar. Parent clones were selected phenotypically for resistance to potato leafhopper and one or more of the following: anthracnose race 1, Phytophthora root rot, Aphanomyces root rot (races 1 and 2), bacterial wilt, Fusarium wilt, Verticillium wilt, and spotted alfalfa aphid. Parent clones were also selected phenotypically for spring vigor, field appearance, and fall dormancy.
2. 53H92 area of probable adaptation is the North Central, East Central and Moderately Winterhardy Intermountain regions of the United States. 53H92 is intended for use in the North Central, East Central, Great Plains, and Canada. 53H92 has been tested for yield in Iowa, Illinois, and Wisconsin.
3. 53H92 is a dormant cultivar with fall dormancy similar to FD-3 check. Flower color in the Syn 2 generation is 83% purple, 15% variegated, 1% yellow, and 1% cream with traces of white found.
4. 53H92 is highly resistant to potato leafhopper, anthracnose (Race 1), bacterial wilt, Fusarium wilt, Phytophthora root rot, Aphanomyces root rot (Race 1), and pea aphid; resistant to Verticillium wilt, spotted alfalfa aphid and Aphanomyces root rot (Race 2); low resistance to Northern root-knot nematode. 53H92 has not been tested for blue alfalfa aphid resistance or stem nematode resistance.
5. Breeder seed (Syn 1) was produced in the greenhouse at Arlington, WI during the winter of 2002-03. Seed classes will be breeder (Syn 1), foundation (Syn 2), and certified (Syn 2 or 3). Limitations of age of stand will be one, three and five years, respectively, for breeder, foundation and certified seed. Pioneer Hi-Bred International will maintain the breeder seed for the life of the cultivar.
6. Seed will be marketed in the spring of 2007.
7. Application for Plant Variety Protection may be made and the certification option will not be requested.
8. As a means of added varietal protection, information included with the Application for Review of Alfalfa Varieties for Certification may be provided to the PVP office.
9. Variety name: 53H92 Date submitted: November 30, 2005

Experimental designation: 03W16CZ2, W03CZ92

PGI 33

1. PGI 33 is adapted to the North Central, East Central, and Moderately Winterhardy Intermountain areas of the U.S. and is intended for use in the North Central, East Central, and Moderately Winterhardy Intermountain areas of the U.S., Canada, and Europe. PGI 33 has been tested in Wisconsin, Kentucky, and California.
2. Maturity of PGI 33 is one day earlier than StarFire. Leaf markings are present on 58% of the plants.
3. Seed increase of PGI 33 is on a limited generation basis with two generations each of breeder, foundation, and certified seed classes. Breeder (Syn.1 or Syn.2), foundation (Syn.2 or Syn.3), and certified (Syn.3 or Syn.4) classes will be recognized. Production of Syn.2 breeder or Syn.3 foundation seed requires consent of the breeder. Breeder seed (Syn.1) was produced under cage isolation near Woodland, CA in 2001. Sufficient foundation seed for the projected life of the variety will be maintained by Cal/West Seeds. Stands of foundation and certified seed fields are limited to 3 years.
4. Certified seed of PGI 33 will be available in 2006.
5. No decision has been made regarding Plant Variety Protection.
6. This information can be forwarded to the PVP office.
7. Variety Name: PGI 33

Date submitted November 30, 2005

Experimental designations: CW 10002

RC9602 Red Clover

1. RC9602 is adapted to the north central and east central United States, and is intended for use in those areas. It has been tested in Indiana, Illinois, Kentucky, Michigan, Ohio, Pennsylvania, Tennessee, and Wisconsin.
2. RC9602 is a diploid medium red clover. Its flower color is 7% red, 13% light pink, 50% medium pink, and 30% dark pink. Approximately 73% of the plants exhibit leaf marks, and 97% have hairs on the stems. RC9602 is highly resistant to southern anthracnose and powdery mildew. Approximately 76% of the plants flower in the seeding year. RC9602 reaches 50% bloom 5 days earlier than Arlington in the spring growth of the first year after seeding.
3. Seed increase of RC9602 is limited to one generation of breeder (syn-1), two generations of foundation (syn-2 or 3), and three generations of certified (syn-2, 3, or 4) classes. Breeder seed was produced in 1999 sufficient for the life of the variety and is maintained in cold storage by FFR Cooperative. Length of stand allowed is 2 years and 3 years each for the foundation and certified classes, respectively. Production of foundation seed is limited to the northwest United States.
4. Certified seed will first be offered for sale in 2006.
5. Application will not be made for Plant Variety Protection.
6. Information in this application may be forwarded to the PVP office.
7. Variety name: _____ Date submitted: November 28, 2005
Experimental designation: RC9602