

ADAPT

DESCRIPTION

- Saranac-type fall growth with Ranger winter survival.
- Dual purpose – grazing and conventional hay production.
- Wide, deep-set crowns improve winter survival.

Plants with wide, symmetrical deep-set crowns were selected from stands that had declined to 10 percent or less. Adapt's tolerance to intensive grazing is similar to Alfagraze. Winter survival ratings from Minnesota and Wisconsin place Adapt in the Very Good class (equal to Ranger) for winter survival.

DISEASE/ INSECT/ NEMATODE/RATINGS

| | | |
|-------------------------------------|----|----------|
| Bacterial Wilt: | HR | 5 |
| Fusarium Wilt: | HR | 5 |
| Verticillium Wilt: | HR | 5 |
| Anthraxnose – Race 1: | R | 4 |
| Phytophthora Root Rot: | HR | 5 |
| Aphanomyces – Race 1: | R | 4 |
| Pea Aphid: | R | |
| Potato Leafhopper Yellowing: | MR | |
| WISCONSIN DISEASE INDEX: | | 28 of 30 |

AGRONOMIC TRAITS

| |
|---|
| Early Seedling Vigor: Excellent |
| Growth Habit: Upright from Crown |
| Recovery After Cutting: Fast |
| Fineness of Stem: |
| Spring: Moderately Coarse |
| Late Summer: Moderately Fine |
| Leafiness: Very Leafy Trifoliolate |
| Leaf Retention: Excellent |
| Plant Color: Very Dark Green |

CROP USE INFORMATION

LifeCycle: Perennial
Ease of Establishment: Fair-Good
Shade Tolerance: Poor
Drought Stress: Excellent
Wet Soil: Poor-Fair
Low PH Tolerance: Poor
Minimum PH: 6.5

Saline Soils (White Alkali): Fair
Saline-Sodiatic Soils (Black Alkali): Poor-Fair
Hay: Excellent
Haylage: Excellent
Continuous Grazing: Good-Excellent
Palatability: Excellent
Anti-Quality: Bloat

Adaptation Ratings:

Fall Dormancy: 4.0
Winter Survival: 2.6 (Very Good)
Stand Persistence: Very Good

Planting Rates:

Bushel weight: 60 lbs.

Seeds per Pound: 200,000

| RATE (lbs.) | Pure | Coated | With Grass |
|---------------------|---------------|---------------|-------------------|
| North: | 15-20 | 15- 20 | 5-10 |
| South: | 20-30 | 20- 30 | 10-15 |
| Seeds/Sq. Ft | 69-138 | 46- 92 | 23-69 |

FEED AND FORAGE REPORT

DAIRYLAND LABORATORIES, INC.
 Arcadia, WI 54612
 Telephone 608-323-2123

Report date: 2/ 2/2015
 Sample number: 011472

Adapt - 3rd cutting, 2014 crop year

PRODUCT: Gina 3 1/26/15 hay (1 - N1)

Moisture % 14.07%
 Dry Matter % 85.93%

| | | Dry Basis | Average | Normal Range |
|---------------|-----|-----------|---------|---------------|
| Crude Protein | %DM | 19.05% | 19.00 | 11.58 - 26.42 |
| ADF | %DM | 28.67% | 34.05 | 23.49 - 44.61 |
| aNDF | %DM | 34.03% | 44.76 | 28.16 - 61.36 |
| AD-ICP | %DM | 1.22% | 1.46 | 0.88 - 2.04 |
| Protein Sol. | %CP | 40.84% | 32.90 | 19.72 - 46.08 |
| Calcium | %DM | 1.68% | 1.30 | 0.70 - 1.90 |
| Phosphorus | %DM | 0.25% | 0.33 | 0.21 - 0.45 |
| Magnesium | %DM | 0.34% | 0.29 | 0.19 - 0.39 |
| Potassium | %DM | 2.32% | 2.34 | 1.40 - 3.28 |
| Sulfur | %DM | 0.28% | 0.25 | 0.13 - 0.37 |
| Sugar (ESC) | %DM | 9.42% | 6.50 | 2.52 - 10.48 |

TDN 1x - ADF % 66.57%
 Adjusted Crude Protein % 19.05%
 NFC % 34.17%
 Nel 3x - ADF Mcal/cwt 68.76
 Neg - ADF Mcal/cwt 37.99
 Nem - ADF Mcal/cwt 64.47
 DMI % Body Wt 3.53%
 RFV 182.16

Adapt - 3rd cutting, 2015 crop year

2015 hay crop: 5 cuttings, every 27days, 1st & 5th cuttings were chopped. 2nd, 3rd, & 4th cuttings were baled.

PRODUCT: 63-40 8/14/15 hay (1 - N1)

Moisture % 13.07%
 Dry Matter % 86.93%

| | | Dry Basis | Average | Normal Range |
|---------------|-----|-----------|---------|---------------|
| Crude Protein | %DM | 25.50% | 19.00 | 11.58 - 26.42 |
| ADF | %DM | 27.21% | 34.05 | 23.49 - 44.61 |
| aNDF | %DM | 34.72% | 44.76 | 28.16 - 61.36 |
| AD-ICP | %DM | 1.51% | 1.46 | 0.88 - 2.04 |
| Protein Sol. | %CP | 36.55% | 32.90 | 19.72 - 46.08 |
| Calcium | %DM | 1.66% | 1.30 | 0.70 - 1.90 |
| Phosphorus | %DM | 0.32% | 0.33 | 0.21 - 0.45 |
| Magnesium | %DM | 0.35% | 0.29 | 0.19 - 0.39 |
| Potassium | %DM | 2.50% | 2.34 | 1.40 - 3.28 |
| Sulfur | %DM | 0.32% | 0.25 | 0.13 - 0.37 |
| Sugar (ESC) | %DM | 5.83% | 6.50 | 2.52 - 10.48 |
| Sugar (WSC) | %DM | 7.32% | 8.16 | 3.90 - 12.42 |

Adjusted Crude Protein % 25.50%
 NFC % 27.35%
 RFV 181.58

FEED AND FORAGE REPORT

DAIRYLAND LABORATORIES, INC.
 Arcadia, WI 54612
 Telephone 608-323-2123

Report date: 5/20/2016
 Sample number: 001-1605-039772

Adapt - 1st cutting, 2016 Crop Year

2016 hay crop: 4 cuttings, every 32days, 1st & 4th cuttings were chopped. 2nd & 3rd cuttings were baled.

PRODUCT: G1 5.11.16 (1 - N7)

Moisture % 47.97%
 Dry Matter % 52.03%

| | | Dry Basis | Average | Normal Range |
|------------------------|------|-----------|---------|---------------|
| Crude Protein | %DM | 22.04% | 19.00 | 11.58 - 26.42 |
| ADF | %DM | 27.98% | 34.05 | 23.49 - 44.61 |
| aNDF | %DM | 34.88% | 44.76 | 28.16 - 61.36 |
| aNDFom | %DM | 33.48% | 43.37 | 27.70 - 59.41 |
| Lignin (Sulfuric Acid) | %DM | 5.76% | 7.27 | 4.83 - 9.71 |
| Lignin | %NDF | 17.20% | | |
| NDFD 240 | %NDF | 58.33% | 48.40 | 31.30 - 66.40 |
| uNDFom240 | %DM | 13.95% | 22.80 | 12.70 - 31.20 |
| AD-ICP | %DM | 1.04% | 1.46 | 0.88 - 2.04 |
| ND-ICP w/ SS | %DM | 2.61% | 3.36 | 0.14 - 5.70 |
| Protein Sol. | %CP | 35.44% | 32.90 | 19.72 - 46.08 |
| Fat (EE) | %DM | 2.93% | 2.69 | 1.63 - 3.75 |
| Total Fatty Acid (TFA) | %DM | 1.21% | 2.04 | 0.98 - 3.10 |
| Ash | %DM | 9.07% | 11.29 | 8.09 - 14.49 |
| Calcium | %DM | 1.57% | 1.30 | 0.70 - 1.90 |
| Phosphorus | %DM | 0.33% | 0.33 | 0.21 - 0.45 |
| Magnesium | %DM | 0.32% | 0.29 | 0.19 - 0.39 |
| Potassium | %DM | 2.60% | 2.34 | 1.40 - 3.28 |
| Sulfur | %DM | 0.26% | 0.25 | 0.13 - 0.37 |
| Sugar (ESC) | %DM | 7.46% | 6.50 | 2.52 - 10.48 |
| Sugar (WSC) | %DM | 9.05% | 8.16 | 3.90 - 12.42 |

Adjusted Crude Protein % 22.04%
 NFC % 35.81%
RFV 178.93

| | | ADF | OARDC |
|--------|----------|-------|-------|
| | | ----- | ----- |
| TDN 1x | %DM | 67.10 | 64.24 |
| Nel 3x | Mcal/cwt | 69.35 | 66.09 |
| Neg | Mcal/cwt | 38.31 | 43.68 |
| Nem | Mcal/cwt | 64.83 | 70.83 |