Visitors Welcome

A FEW REQUESTS;
1. GIVE EQUIPMENT RIGHT-OF-WAY
2. STAY ON GRAVEL ROADS
3. TAKE NO SOUVENIRS

QUESTIONS ARE WELCOME

Enjoy Your Visit

Visiting Hours
MONDAY - FRIDAY  8:00 A.M. - 4:00 P.M.
Nevada Nile Ranch Inc.

- Lovelock Nevada
- Ninety three miles East of Reno on I-80
- Elevation 4000 ft.
- Desert Climate
- Average precipitation 6 inches.
IRRIGATION

- Rye Patch Reservoir
- Storage 200,000 ac ft.
- Normal water allotment 3 ac ft./yr.
METHODS OF IRRIGATION

- Flood Irrigation
- 200 ft. borders
- All irrigated ground is laser leveled with 1/10 fall and 0 side fall.
SUBSURFACE DRIP IRRIGATION

- Experimental: Four hundred acres.

- Problems: Gophers, soil variation, COST!
METHOD OF DRAINAGE

- Drain pipes at end of fields in which drain into drain ditches.
- Underground drain tile at bottom end of fields.
MAJOR CROPS GROWN

- Alfalfa Hay
- Alfalfa Seed
- Small Grains
ALFALFA HAY

- 5,000 acres of which 780 acres is R.R.
4 cuttings per year with 1st and 4th being the highest quality.
Average yield 5.5 tons/per acre per year approximately 27,500 tons which is equal to 1,000 truck loads.
MARKET PLACE

- 22 California dairies for both dry cow hay and high end dairy hay.

**All hay is sold through one broker who is responsible for shipment and collection of money.**
ALFALFA SEED

- 1,050 acres of which 700 acres are R.R.
- 4 different varieties grown under contract.
SMALL GRAINS

- Grain sold to local feed lot.
- Wheat hay sold to dairies.
- Experimented with malting barley.
- Small grains used as a rotation between alfalfa hay and alfalfa seed, usually for one to two years.
FIELD TRIALS

- FERTILIZER
- YIELD
- VARIETY
FERTILIZER TRIALS

300 acres 2 year trial

- Simplot Soil Selection which involves GPS mapping and soil sampling every two acres.

- Variable rate application of both Macro and Micro nutrients in a single application.
YIELD TRIALS

- Alfalfa Hay
- Small Grains
VARIETY TRIALS

- Variety comparisons
- Seeding rates
- Variety yields
ADVANTAGES OF ROUND-UP READY ALFALFA HAY TO GROWER

■ Broad Spectrum Weed Control

1. **Controls both broad leaf and grasses.**
   
   A. Russian Knapweed, Tall White Top, Field Bindweed, Kochia, Pigweed, Lambsquarter, Water Grass, Volunteer Small Grains, Mallow, Dodder, Jointed Goats grass, Chinese lettuce, Etc.
2. Reduces chemical burn and stunting of plant.

A. Gramoxone – burns down any green growth.

B. Raptor, Pursuit, 2,4-DB creates severe stunting of Alfalfa plant.
3. **Faster drying time to Bale.**
   A. Less weeds faster drying time to bale.
   B. High moisture in certain weeds, Example: Chinese lettuce, Dodder.
   C. Can save up to two days in baling.
ROUND-UP READY ALFALFA HAY
CONTINUED

4. *Higher Yield* 2006

<table>
<thead>
<tr>
<th></th>
<th>1&lt;sup&gt;st&lt;/sup&gt; CROP</th>
<th>2&lt;sup&gt;nd&lt;/sup&gt; CROP</th>
<th>3&lt;sup&gt;rd&lt;/sup&gt; CROP</th>
<th>4&lt;sup&gt;th&lt;/sup&gt; CROP</th>
<th>TOTAL YIELD</th>
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<tbody>
<tr>
<td>51 ACRES RR</td>
<td>2.53 T/AC</td>
<td>1.48 T/AC</td>
<td>1.41 T/AC</td>
<td>1.22 T/AC</td>
<td>6.64 T/AC</td>
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<tr>
<td>60 ACRES CONV.</td>
<td>1.68 T/AC</td>
<td>1.40 T/AC</td>
<td>1.44 T/AC</td>
<td>1.16 T/AC</td>
<td>5.68 T/AC RR + .96 T/AC</td>
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<tr>
<td>180 ACRES RR</td>
<td>1ST CROP</td>
<td>2ND CROP</td>
<td>3RD CROP</td>
<td>4TH CROP</td>
<td>TOTAL YIELD</td>
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<tr>
<td>2.08 T/AC</td>
<td>1.77 T/AC</td>
<td>1.90 T/AC</td>
<td>N/A T/AC</td>
<td>5.75 T/AC</td>
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<td>1.39 T/AC</td>
<td>1.43 T/AC</td>
<td>1.91 T/AC</td>
<td>N/A T/AC</td>
<td>4.73 T/AC</td>
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</table>

RANCH AVE. CONV.  RR + 1.02 T/AC
## ROUND-UP READY ALFALFA HAY CONTINUED

### 6. **HIGHER QUALITY (T.D.N.)**

#### 2006

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<thead>
<tr>
<th></th>
<th>1&lt;sup&gt;ST&lt;/sup&gt; CROP</th>
<th>2&lt;sup&gt;ND&lt;/sup&gt; CROP</th>
<th>3&lt;sup&gt;RD&lt;/sup&gt; CROP</th>
<th>4&lt;sup&gt;TH&lt;/sup&gt; CROP</th>
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<tbody>
<tr>
<td><strong>51 ACRES RR</strong></td>
<td>55.9 T.D.N.</td>
<td>57.3 T.D.N.</td>
<td>55.1 T.D.N.</td>
<td>59.1 T.D.N.</td>
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<tr>
<td><strong>60 ACRES CONV.</strong></td>
<td>54.3 T.D.N.</td>
<td>53.6 T.D.N.</td>
<td>53.4 T.D.N.</td>
<td>55.7 T.D.N.</td>
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</table>
### 7. Higher Quality (T.D.N.) 2007

<table>
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<tr>
<th>180 Acres RR</th>
<th>1&lt;sup&gt;st&lt;/sup&gt; Crop</th>
<th>T.D.N.</th>
<th>2&lt;sup&gt;nd&lt;/sup&gt; Crop</th>
<th>T.D.N.</th>
<th>3&lt;sup&gt;rd&lt;/sup&gt; Crop</th>
<th>T.D.N.</th>
<th>4&lt;sup&gt;th&lt;/sup&gt; Crop</th>
<th>T.D.N.</th>
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<td>180 ACRES RR</td>
<td>57.4 T.D.N.</td>
<td></td>
<td>54.4 T.D.N.</td>
<td></td>
<td>54.7 T.D.N.</td>
<td></td>
<td>N/A T.D.N.</td>
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<tr>
<td>High</td>
<td>52.8</td>
<td></td>
<td>52.4</td>
<td></td>
<td>51.2</td>
<td></td>
<td>N/A T.D.N.</td>
<td></td>
</tr>
<tr>
<td>Low</td>
<td>56.9</td>
<td></td>
<td>54.2</td>
<td></td>
<td>52.9</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Low Conv.</td>
<td></td>
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<td></td>
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N/A: Not Available
CROSSING CALIFORNIA STATE LINES

- Fewer problems with movement into California.
  1. AG. Inspection Stations.
  3. Load Rejections. (zero with RR)
ENVIRONMENTALLY SAFE

- Safer on applicators (RR vs. Gramoxone)
- Safe to wildlife and their environment.
- Round-up is proven to be safer than other herbicides.
GROWER PRECAUTIONS TAKEN WITH ROUND-UP READY ALFALFA

- *All R.R hay is usually cut during its early to late bud stage.*
- *Try to cut all R.R fields in sequence.*
  1. All R.R cut 1st to avoid bloom.
  2. Reduces equipment cleaning time.
  3. R.R is the first hay that buyers want to look at.
GROWER PRECAUTIONS TAKEN WITH ROUND-UP READY ALFALFA

- **Cont.**
- **Separation of R.R and conventional hay.**
- **1.** R.R Stacks are clearly marked on all four sides (painted).
- **2.** Monthly hay inventories are separated and labeled R.R.
GROWER PRECAUTIONS TAKEN WITH ROUND-UP READY ALFALFA

Cont.

Roads and Ditches
- Sprayed with other herbicides such as 2,4-D
  1. To prevent resistance to Round-up.
  2. Eliminate any Feral Alfalfa plants.
GROWER PRECAUTIONS TAKEN WITH ROUND-UP READY ALFALFA

Cont.

- Obtained copy of all certified organic hay growers in the state.
  - Nearest organic field is 150 miles away from R.R fields.

- Hay Shipments
  - Bales are tagged R.R.
  - Weight tickets are marked R.R.

- Common sense farming practices
  - Follow Stewardship Agreement.
  - Plan ahead where R.R acres will be planted.
GROWER CONCERNS

- Tagging bales that are R.R.
  - Stacks that are currently marked R.R remain a unit.

- Labor intensive
  - Each truck load takes 36-42 tags and must be tagged at the scale.

- Type of tags
  - Weather resistant?
GROWER CONCERNS
REGULATED BY GOVERNMENT
CONTINUED

- Lack of interest to work with growers who are trying to help solve problems.
- The expense of being regulated.
- Professional growers should be allowed to be involved in setting PRACTICAL regulations.
- Listen to science.
1. **Big bales @ 1,300 lbs./bale**
   - A. 5.5 T/Ac = 8.5 bales/Ac
   - B. 780 acres
   - C. Equals 6,630 tags

2. **Small bales @ 125 lbs./bale**
   - A. 5.5 T/Ac = 88 bales/Ac
   - B. 780 Acres
   - C. Equals 68,640 tags

3. **Small bales @ 125 lbs./bale**
   - A. 5.5 T/Ac = 88 bales/AC
   - B. 5,000 acres
   - C. Equals 440,000 tags
GROWER CONCERNS
ECONOMIC IMPACT
Of not having Round-up Ready

- Economical impact R.R vs. Conventional Hay.
  - Extra chemical cost per year/acre = $28.00
  - Loss of quality $15.00 per ton
    5.5 ton average per acre/year = $82.50
  - Loss of tonnage ½ ton @ $150/T = $75.00
  - Extra weed control, roads and ditches $5.00 per acre. = $5.00
    $190.50/Ac

*5,000 Ac x $190.50 = $952,500.00 per year
6 YEARS STAND LIFE = $5,715,000.000
POLITICS INVOLVED
IN ROUND-UP READY ALFALFA

GROWERS CONCERNS

- JUDGES vs. SCIENTIFIC FACTS
- LACK OF EDUCATION TO THE PUBLIC AND PEOPLE INVOLVED.
• MY BIGGEST CONCERN
  – No one has been able to explain to me how the Round-Up Ready trait can be passed from Round-Up Ready hay to conventional hay, whether through leaf or stem contact.

-Cross Pollination in seed production, I fully understand.
ADVANTAGES TO CUSTOMER

• Quality, Quality, Quality!
• Higher milk production.
• Nutritionists like quality hay to work rations.
• QUALITY = HAPPY GROWERS, BUYERS, AND ENHANCES CASH FLOW.........
CUSTOMER CONCERNS

- The loss of Round-Up Ready alfalfa hay.
- Less acres of quality hay.
DAIRIES


- Most dairies we sell hay to, do not separate R.R and Conventional Hay.
  - *Co-mingled.*

- *Separation is by quality.*
  - High end hay
  - Low end hay
Happy California Cows Eat Nevada Round-Up Ready Hay

Courtesy of Poster. Net
Common Sense + Practicality + Stewardship
=
COEXISTANCE
BY Mike Phillips