Top producing herds in Wisconsin feed more forage than you may think.
# Survey Herds

<table>
<thead>
<tr>
<th></th>
<th>Sept-2010 5-Herd Summary</th>
<th>Fall-07 3-Herd Summary</th>
<th>Feb-04 6-Herd Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. Milking Cows</td>
<td>85 - 2274</td>
<td>60 - 331</td>
<td>280 - 570</td>
</tr>
<tr>
<td>DHI Milk RHA, lb</td>
<td>32k – 37k</td>
<td>30k – 33k</td>
<td>29k – 31k</td>
</tr>
</tbody>
</table>
DMI related to NDF & IVNDFD
<table>
<thead>
<tr>
<th></th>
<th>Sept-2010 5-Herd Summary</th>
<th>Fall-07 3-Herd Summary</th>
<th>Feb-04 6-Herd Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMI, lb per day</td>
<td>57 - 68</td>
<td>55 - 59</td>
<td>57 - 68</td>
</tr>
<tr>
<td>Milk/DMI</td>
<td>1.6 – 1.8</td>
<td>1.8 - 1.9</td>
<td>1.7 – 1.8</td>
</tr>
<tr>
<td>FCM/DMI</td>
<td>1.6 – 1.9</td>
<td>--</td>
<td>1.6 – 1.8</td>
</tr>
</tbody>
</table>
# Forage Program—Milking Cows

<table>
<thead>
<tr>
<th></th>
<th>Sept-2010 5-Herd Summary</th>
<th>Fall-07 3-Herd Summary</th>
<th>Feb-04 6-Herd Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wheat Straw</td>
<td>- - -</td>
<td>1/3</td>
<td>2/6</td>
</tr>
<tr>
<td>Dry Hay</td>
<td>4/5</td>
<td>3/3</td>
<td>3/6</td>
</tr>
<tr>
<td>Alfalfa Silage</td>
<td>5/5</td>
<td>3/3</td>
<td>6/6</td>
</tr>
<tr>
<td>Corn Silage</td>
<td>5/5</td>
<td>3/3</td>
<td>6/6</td>
</tr>
</tbody>
</table>
## Herd or High Group Forage

<table>
<thead>
<tr>
<th></th>
<th>Sept-2010 5-Herd Summary</th>
<th>Fall-07 3-Herd Summary</th>
<th>Feb-04 6-Herd Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forage</td>
<td>50 - 60</td>
<td>51 - 58</td>
<td>45 - 63</td>
</tr>
<tr>
<td>% of Diet DM</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Corn Silage</td>
<td>35 - 67</td>
<td>40 - 60</td>
<td>41 - 68</td>
</tr>
<tr>
<td>% of Forage DM</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Herd/HGRP Diet Nutrient Composition

<table>
<thead>
<tr>
<th></th>
<th>Sept-2010 5-Herd Summary</th>
<th>Fall-07 3-Herd Summary</th>
<th>Feb-04 6-Herd Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>DM, % as fed</td>
<td>42 - 53</td>
<td>--</td>
<td>40 - 57</td>
</tr>
<tr>
<td>CP, % DM</td>
<td>16.3 – 17.5</td>
<td>17.3 - 18</td>
<td>17 – 18.5</td>
</tr>
<tr>
<td>NDF, % DM</td>
<td>25 - 31</td>
<td>28 - 31</td>
<td>26 – 32</td>
</tr>
<tr>
<td>Forage NDF, % DM</td>
<td>20 - 24</td>
<td>21 - 24</td>
<td>18 - 23</td>
</tr>
</tbody>
</table>
# Alfalfa Silage Nutrient Composition

<table>
<thead>
<tr>
<th></th>
<th>Sept-2010 5-Herd Summary</th>
<th>Fall-07 3-Herd Summary</th>
<th>Feb-04 6-Herd Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>DM, % of as fed</td>
<td>33 - 46</td>
<td>44 - 50</td>
<td>28 - 52</td>
</tr>
<tr>
<td>CP, % of DM</td>
<td>17 - 25</td>
<td>19 - 23</td>
<td>19 – 26</td>
</tr>
<tr>
<td>NDF, % of DM</td>
<td>34 - 47</td>
<td>37 - 38</td>
<td>35 – 42</td>
</tr>
<tr>
<td>IVNDFD, % of NDF</td>
<td>- - -</td>
<td>57 - 59</td>
<td>39 - 58</td>
</tr>
<tr>
<td>NFC, % of DM</td>
<td>22 - 35</td>
<td>31 - 34</td>
<td>24 – 35</td>
</tr>
<tr>
<td>TDN&lt;sub&gt;1x&lt;/sub&gt;, % of DM</td>
<td>56 - 65</td>
<td>63 - 64</td>
<td>58 – 65</td>
</tr>
</tbody>
</table>
# Corn Silage Nutrient Composition

<table>
<thead>
<tr>
<th>Nutrient</th>
<th>Sept-2010 5-Herd Summary</th>
<th>Fall-07 3-Herd Summary</th>
<th>Feb-04 6-Herd Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>DM, % of as fed</td>
<td>28 - 35</td>
<td>35 - 37</td>
<td>29 - 36</td>
</tr>
<tr>
<td>CP, % of DM</td>
<td>6 - 9</td>
<td>8</td>
<td>8 – 11</td>
</tr>
<tr>
<td>NDF, % of DM</td>
<td>37 - 43</td>
<td>40 - 44</td>
<td>39 – 49</td>
</tr>
<tr>
<td>IVNDFD, % of NDF</td>
<td>60 - 67</td>
<td>63 - 65</td>
<td>61 - 67</td>
</tr>
<tr>
<td>Starch, % of DM</td>
<td>33 - 36</td>
<td>29 - 38</td>
<td>25 – 32</td>
</tr>
<tr>
<td>TDN$_{1x}$, % of DM</td>
<td>72 - 75</td>
<td>69 - 72</td>
<td>66 – 73</td>
</tr>
</tbody>
</table>
Calculated from Survey Summaries

% of Dietary Nutrient Provided By Forage

- NDF
- peNDF
- CP
- Starch
- NFC
- Energy
Calculated from Survey Summaries

Milk from Forage, lb/cow/day

Maintenance & BWG needs apportioned to forage or concentrate according to diet F:C ratio
Calculated from Survey Summaries

Maintenance & BWG needs apportioned to forage or concentrate according to diet F:C ratio
# Herd or High Group Corn

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Dry Corn</td>
<td>1/5</td>
<td>2/3</td>
<td>3/6</td>
</tr>
<tr>
<td>HM Corn</td>
<td>5/5 27 - 34</td>
<td>2/3 27 - 34</td>
<td>4/6 24 - 26</td>
</tr>
<tr>
<td>% Moisture</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Dry Corn**
- **1/5**
- **2/3**
- **3/6**

**HM Corn**
- **5/5 27 - 34**
- **2/3 27 - 34**
- **4/6 24 - 26**
<table>
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</tr>
</thead>
<tbody>
<tr>
<td>CGF</td>
<td>2/5</td>
<td>--</td>
<td>3/6</td>
</tr>
<tr>
<td>DDG</td>
<td>2/5</td>
<td>2/3</td>
<td>2/6</td>
</tr>
<tr>
<td>WCS</td>
<td>5/5</td>
<td>3/3</td>
<td>6/6</td>
</tr>
<tr>
<td>Soyhulls</td>
<td>2/5</td>
<td>2/3</td>
<td>1/6</td>
</tr>
<tr>
<td>LFS (Molasses)</td>
<td>3/5</td>
<td>1/3</td>
<td>2/6</td>
</tr>
<tr>
<td>Liquid Whey</td>
<td>2/5</td>
<td>--</td>
<td>1/6</td>
</tr>
</tbody>
</table>
## Supplements—Herd or High Group

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>SBM solv.</td>
<td>3/5</td>
<td>3/3</td>
<td>5/6</td>
</tr>
<tr>
<td>SBM exp., htd.</td>
<td>4/5</td>
<td>3/3</td>
<td>1/6</td>
</tr>
<tr>
<td>Rst. SB</td>
<td>3/5</td>
<td>2/3</td>
<td>4/6</td>
</tr>
<tr>
<td>CGM-60</td>
<td>2/5</td>
<td>2/3</td>
<td>2/6</td>
</tr>
<tr>
<td>Blood/AP Blend</td>
<td>5/5</td>
<td>3/3</td>
<td>4/6</td>
</tr>
<tr>
<td>Urea</td>
<td>1/5</td>
<td>2/3</td>
<td>3/6</td>
</tr>
</tbody>
</table>
## Supplements—Herd or High Group

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<tbody>
<tr>
<td>Buffer</td>
<td>5/5</td>
<td>3/3</td>
<td>4/6</td>
</tr>
<tr>
<td>Yeast</td>
<td>4/5</td>
<td>3/3</td>
<td>6/6</td>
</tr>
<tr>
<td>Rumensin</td>
<td>5/5</td>
<td>3/3</td>
<td>NA</td>
</tr>
<tr>
<td>Myco. Control</td>
<td>3/5</td>
<td>1/3</td>
<td>3/6</td>
</tr>
</tbody>
</table>
Alfalfa vs. Lactating Cow Diet

- NFC (% DM)
- IVNDFD (%NDF)
- NDF (%DM)
- Fat (%DM)
- NE (Mcal/10 lb)
- RUP/CP
- RUP (%DM)
- CP

Cow Diet vs. Alfalfa
Corn Silage vs. Alfalfa Silage

- Lactation performance benefit to feeding 1/4th to 1/3rd of forage DM as corn silage
- Similar lactation performance for 1/3rd to 2/3rd of forage DM as corn silage
- Feeding 3/4ths or more of forage DM as corn silage creates nutritional challenges
- High Corn & Low/Moderate SBM prices favor higher corn silage diets
- Low Corn & High SBM prices favor higher alfalfa silage diets
- Neither forage is favored when Corn & SBM prices are both either high or low
- DM yield per acre advantage for corn silage over alfalfa silage the major factor
Mixed AS-CS vs. Lactating Cow Diet

- NFC (% DM)
- IVNDFD (% NDF)
- NDF (% DM)
- Fat (% DM)
- NE (Mcal/10 lb)
- RUP/CP
- RUP (% DM)
- CP

- Cow Diet
- Mixed Silage
Visit UW Extension Dairy Cattle Nutrition Website

http://www.uwex.edu/ces/dairynutrition/