Nutritional Management
Of Race Horse

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Considerations for feeding the race horse are:
What nutrients are needed?
How will they be supplied?
Nutrients needed?

- Water
- Energy or calories
- Crude Protein – amino acids
- Minerals
- Vitamins
# Work intensity

<table>
<thead>
<tr>
<th>Work intensity</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maintenance</td>
<td>Lawn ornament</td>
</tr>
<tr>
<td>Light</td>
<td>Recreational riding</td>
</tr>
<tr>
<td>Moderate</td>
<td>School horses</td>
</tr>
<tr>
<td>Heavy</td>
<td>Ranch, Show horses</td>
</tr>
<tr>
<td>Intense</td>
<td>Race horses, endurance horses</td>
</tr>
</tbody>
</table>

NRC 2007
## Work Intensity

<table>
<thead>
<tr>
<th>Work intensity</th>
<th>Hours per week</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light</td>
<td>1 – 3</td>
<td>Recreational riding</td>
</tr>
<tr>
<td>Moderate</td>
<td>3 – 5</td>
<td>School horses</td>
</tr>
<tr>
<td>Heavy</td>
<td>4 – 5</td>
<td>Ranch, show horses</td>
</tr>
<tr>
<td>Intense</td>
<td>6 – 12</td>
<td>Race horses, endurance horses</td>
</tr>
</tbody>
</table>

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Nutrient requirements for work

Lower

Higher
Meeting Those Requirements

Mostly forage
Some concentrate

Good Forage
More Concentrate
Nutrient Sources

Forage – as hay
Commercial Concentrates
Additional Supplemental feeds:
  fats and oils?
  other supplements?
For the Race Horse

Quality hay
free of mold and dust
high nutrient value
palatable
For the Race Horse

Concentrate
commercial feeds
form of the feed
formulated for the performance horse
cereal based
fortified
For the Race Horse

Intakes
forage first
added concentrate
feed intakes will be higher
### Daily feed intakes for an 1100 lb. horse

<table>
<thead>
<tr>
<th>Horse Type</th>
<th>Daily hay in lbs.</th>
<th>Daily Concentrate in lbs.</th>
<th>Total Intake % of Body weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light work</td>
<td>16</td>
<td>4</td>
<td>1.8</td>
</tr>
<tr>
<td>Heavy work</td>
<td>16</td>
<td>8.5</td>
<td>2.2</td>
</tr>
<tr>
<td>Intense work</td>
<td>16</td>
<td>14</td>
<td>2.7</td>
</tr>
</tbody>
</table>
Nutrients and Horses
Questions ?