Dairy Herd Forage Needs and Inventory Balance Worksheet

1. Total tons of forage dry matter required: ________
   (From Dairy Herds Forage Needs worksheet)

2. Total tons of forage dry matter available: ________
   (From Dairy Herd Forage Inventory Worksheet)

3. Additional tons of forage dry matter needed: ________

These calculations provide an estimate of the tons of forage dry matter that may need to be purchased. Table 1 can be used to determine the tons of as-fed forage that need to be purchased.

Table 1. Tons of As-Fed Forage Needed

<table>
<thead>
<tr>
<th>Forage Type</th>
<th>(A) % of purchased forages (^a)</th>
<th>(B) Dry matter, %</th>
<th>(C) Total Tons of Forage DM Needed (Step 3 above)</th>
<th>(D) Tons of Forage DM (from this forage) ((C*A)/100)</th>
<th>(E) Tons of as-fed forage (from this forage) ((D/(B/100)))</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dry Hay</td>
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<tr>
<td>Baleage</td>
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<tr>
<td>Silage</td>
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<tr>
<td>Other forage</td>
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</tbody>
</table>

\(^a\) Percent of the total forage needs that you plan to meet from this forage type

Example calculation:
- 500 tons forage DM needed (from Step 3 above)
- Purchase dry hay (87% DM) to supply 25% of the forage needed
  - Tons DM of dry hay needed = 125
    - \((500*25)/100\)
  - Tons of as-fed dry hay needed = 143.7
    - \((125/(87/100))\)

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