Is it possible to change the flow of milk from a herd so that heavy production occurs during the months of the year when it is needed? Can you build up your base to a higher level? This can be done in a short time if you are willing to raise your heifers and let them replace some of your older, less profitable cows.

We have a program in the Station herd that seems to work very well and still raises our level of production.

Heifers old enough to breed are bred from November 20 to March 25th. No heifers are bred after March 25 until the next November 20th. If you follow this program each year, most of your cows will calve in the fall. Some of the others can be scattered throughout the year except for June and July. One or two may calve during the last of July but not before.

We started this kind of program in 1953. We bred 7 heifers from November 20 to December 20, 1953. They calved in late August and September 1954. We bred 8 more from November 20 to December 20, 1954. The following chart shows the total milk produced per month in 1954 and 1955:

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total production 1954</td>
<td>232,238.5 lbs. milk</td>
<td>27.7 cows</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Av. production 1954</td>
<td>8,384 lbs. milk per cow</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total production 1955</td>
<td>242,174 lbs. milk</td>
<td>25.3 cows</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Av. production 1955</td>
<td>9,550 lbs. milk per cow</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The highest production in 1954 was during July and August while the lowest point in 1955 was in July. All the heifers that calved in August and September of 1954 were dry during July of 1955 making it the lowest point for the year. In 1955 no cows calved after February 7 until July 30 and still...
the production held at a very good level until those calving in August and September had to be dried off.

The Station had a Guernsey herd in 1948 when the Holstein and Red Dane bulls were introduced. Have these bulls raised the production of the herd in this time? The following is the production in 1948-49 and 1954-55, a period of six years.

<table>
<thead>
<tr>
<th>Year</th>
<th>No. of cows</th>
<th>Total milk</th>
<th>Total fat</th>
<th>Av. milk per cow</th>
<th>Av. fat per cow</th>
</tr>
</thead>
<tbody>
<tr>
<td>1948</td>
<td>10.4</td>
<td>60,908</td>
<td>2,924</td>
<td>5,857</td>
<td>281</td>
</tr>
<tr>
<td>1949</td>
<td>12.8</td>
<td>69,006</td>
<td>3,303</td>
<td>5,404</td>
<td>259</td>
</tr>
<tr>
<td>1954</td>
<td>27.7</td>
<td>232,239</td>
<td>9,074</td>
<td>8,384</td>
<td>328</td>
</tr>
<tr>
<td>1955</td>
<td>25.3</td>
<td>217,758</td>
<td>9,925</td>
<td>9,550</td>
<td>392</td>
</tr>
</tbody>
</table>

This herd in 1955 had only six cows over five years of age.

Some farmers have condemned heifers that calve in March, April and May because they drop off in production so fast in September, October and November. This is not the fault of the heifer but the result of the time of calving and the change from pasture to barn feed in the fall. We have made a chart showing the percentage of production during the first five months and the last five months of the lactation.

The chart shows that the cows calving in September, October and November hold up in production much better than those calving at any other time. The ones calving in March, April and May are by far the worst. The critical time in the lactation of the March, April and May cows comes when they go from pasture to barn feed. We found this past year that a lot of this drop in production could be avoided by starting to feed silage the last part of August while the cows were still on pasture. Since we were making silage anyway, we simply put a load of green silage in a bunk in the barnyard.
When the bunk was empty, another load was put in.

This chart was made from the records of 25 cows that calved during each month. If you know the month a cow calved and her production the first calendar month after calving, her year's production can be predicted, except for the part of a month at the beginning and end of the lactation. For example, a cow calving in September, October or November will give 54.28% of her milk in the first five months. If she gave 1,200 lbs. the first month, divide 54.28 by 5 = 10.85%; 1,200 lbs. milk divided by 10.85 = 1,105 lbs. milk; 1,105 x 5 = 5,525 lbs. milk for the first 5 months; 5,525 times 43.28% = 239,122; 239,122 divided by 54.28 = 4,405 lbs. milk for the last 5 months; 5,525 plus 4,405 = 9,930 lbs. milk for the 10 months except for the part of a month when she calved and the part of the month at the end of the lactation. This method will usually predict within 100 lbs. of actual production unless the cow becomes sick or something else happens to her during the lactation.

Cows calving during the months of March, April and May are hardest to hold up in production. They give most of their milk in the first 5 months largely because of the time in their lactation when they change from pasture to barn feed. Extra grain feeding during this period is not the solution to this problem but starting to feed roughage of a high quality is. When cows start to fall in production unusually fast, look to the quality and quantity of roughage being fed at this time.

A cow's inheritance for high production is not, in itself, a guarantee of high milk production. A cow capable of producing 20,000 lbs. of milk in one herd under very good conditions might produce only half as much of less if put in another herd under poor conditions. If you have a cow with high inherited production, what you get out of her is entirely up to you in the way you feed and manage her.

When we say that the daughters of 2595 have records of 11,337 lbs. of milk and 439 lbs. of fat, that does not mean that it is the top level they are capable of. It means only that they were much better than their dams under the same conditions. To get top production, each cow would have to be handled under ideal conditions as to feed and management. These same cows might be capable of 14 to 16,000 lbs. under ideal conditions. Very few farmers handle their cows under ideal conditions. I know we do not have them at the Station.

The sisters of 2595 and 368, all out of the same bull, have the actual
records as follows:

<table>
<thead>
<tr>
<th>Sisters from same bull</th>
<th>Av. production days</th>
<th>Lbs. milk</th>
<th>Lbs. fat</th>
</tr>
</thead>
<tbody>
<tr>
<td>45</td>
<td>305</td>
<td>15,363</td>
<td>608</td>
</tr>
</tbody>
</table>

and were on twice-a-day milking. This is an average of over 51 lbs. per day for the 305 days. These records were made under very good conditions. Some cows in some of our herds in Alaska might make only 10 to 11,000 lbs. but still be just as good as these cows.

The Holstein bull 7969 is a grandson of the former world champion Carnation Royal Butter King. She made 38,606 lbs. of milk and 1,140 lbs. of butterfat. His five nearest tested dams averaged 22,606 lbs. of milk and 918 lbs. of fat.

The following is the breeding record for June 1954 to May 1955:

<table>
<thead>
<tr>
<th>Month</th>
<th>1st Service</th>
<th>2nd Service</th>
<th>3rd Service</th>
<th>4th Service</th>
<th>5th or over</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1954</td>
<td>B NR</td>
<td>B NR</td>
<td>B NR</td>
<td>B NR</td>
<td>B NR</td>
<td>%</td>
</tr>
<tr>
<td>June</td>
<td>55 34</td>
<td>20 15</td>
<td>6</td>
<td>3</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>87 56</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>64.4</td>
</tr>
<tr>
<td>July</td>
<td>16 26</td>
<td>25 16</td>
<td>3</td>
<td>1</td>
<td>6</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>74 47</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>70.7</td>
</tr>
<tr>
<td>Aug.</td>
<td>41 24</td>
<td>20 12</td>
<td>8</td>
<td>3</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>63 41</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>65.1</td>
</tr>
<tr>
<td>Sept.</td>
<td>32 18</td>
<td>18 14</td>
<td>10</td>
<td>6</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>79 55</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>69.6</td>
</tr>
<tr>
<td>Oct.</td>
<td>58 39</td>
<td>16 12</td>
<td>4</td>
<td>1</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>100 59</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>59.0</td>
</tr>
<tr>
<td>Nov.</td>
<td>71 47</td>
<td>17 7</td>
<td>7</td>
<td>3</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>126 63</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>50.0</td>
</tr>
<tr>
<td>Dec.</td>
<td>87 43</td>
<td>28 14</td>
<td>7</td>
<td>5</td>
<td>4</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>50.0</td>
</tr>
<tr>
<td>1955</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jan.</td>
<td>90 38</td>
<td>33 14</td>
<td>21</td>
<td>8</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>150 62</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>41.3</td>
</tr>
<tr>
<td>Feb.</td>
<td>54 31</td>
<td>49 20</td>
<td>17</td>
<td>9</td>
<td>11</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>135 68</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>50.4</td>
</tr>
<tr>
<td>Mar.</td>
<td>65 35</td>
<td>33 24</td>
<td>30</td>
<td>20</td>
<td>13</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>145 88</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>60.7</td>
</tr>
<tr>
<td>Apr.</td>
<td>47 24</td>
<td>37 21</td>
<td>5</td>
<td>2</td>
<td>7</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>106 54</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>50.9</td>
</tr>
<tr>
<td>May</td>
<td>60 34</td>
<td>27 15</td>
<td>17</td>
<td>10</td>
<td>5</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>120 64</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>53.3</td>
</tr>
<tr>
<td>Total</td>
<td>709 393</td>
<td>223 184</td>
<td>135 79</td>
<td>58 28</td>
<td>13 43</td>
<td>23 1,268</td>
</tr>
<tr>
<td>Per cent</td>
<td>55.4</td>
<td>57.0</td>
<td>58.5</td>
<td>48.3</td>
<td>53.5</td>
<td></td>
</tr>
<tr>
<td>Per cent of total</td>
<td>55.1</td>
<td>50.0</td>
<td>11.1</td>
<td>3.9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1st two services</td>
<td>81.4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1st three services</td>
<td>92.5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The conception rate in 1955 has not been as good as in 1954. First services were better in 1954 than in 1955 but second services were better in 1955 so the total percentage of conception on the first three services in
1955 was 92.5% as against 95.3% in 1954. There were more cows harder to get with calf in 1955 than in 1954. There were only 53 fourth services in 1955 as against 48 in 1954, but more of these 53 came back beyond the fourth service. The repeat cows were the same cows. January was the lowest month of the year in 1955, as it was in 1954.

Dairymen interested in self-feeding silage should visit the Station during the winter. We are self-feeding a number of heifers. They seem to be doing very well and are not wasting any silage so far.

We have just had three daughters of the Red Dane bull D-597 finish their first calf records. Their average production at two years and five months of age was 11,002 lbs. of milk and 405 lbs. of fat.

<table>
<thead>
<tr>
<th>Heifer</th>
<th>Born</th>
<th>Calved</th>
<th>Age</th>
<th>Milk</th>
<th>Fat</th>
<th>Milk</th>
<th>Fat</th>
<th>Milk</th>
<th>Fat</th>
<th>Age</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>12-15-51</td>
<td>12-9-54</td>
<td>2-11-23</td>
<td>10,688</td>
<td>390</td>
<td>12,583</td>
<td>460</td>
<td>8,424</td>
<td>294</td>
<td>9,350</td>
</tr>
<tr>
<td>207</td>
<td>6-24-52</td>
<td>11-23-54</td>
<td>2-4-29</td>
<td>12,504</td>
<td>439</td>
<td>15,630</td>
<td>549</td>
<td>11,722</td>
<td>403</td>
<td>12,073</td>
</tr>
<tr>
<td>204</td>
<td>4-27-52</td>
<td>10-4-54</td>
<td>2-5-7</td>
<td>9,834</td>
<td>385</td>
<td>12,292</td>
<td>491</td>
<td>8,131</td>
<td>280</td>
<td>10,651</td>
</tr>
<tr>
<td>Average</td>
<td>11,002</td>
<td>405</td>
<td>13,503</td>
<td>496</td>
<td>9,425</td>
<td>326</td>
<td>10,691</td>
<td>368</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

A sister of 207 from the same cow, but a purebred Holstein, produced with her first calf, 9,100 lbs. of milk and 355 lbs. of fat. The mature basis for this record was 11,102 lbs. of milk and 433 lbs. of fat. This heifer was about as good as her dam but not as good as the crossbred from the same cow. We do not have purebred sisters yet to compare with the other two crossbreds.

To emphasize what happened to a number of cows that calved in March, April, May, June and July, we took the records on 31 cows calving in these months and totaled their production by months. This is the result:

<table>
<thead>
<tr>
<th></th>
<th>August</th>
<th>September</th>
<th>October</th>
<th>November</th>
</tr>
</thead>
<tbody>
<tr>
<td>Av. production for month</td>
<td>1,390</td>
<td>1,170</td>
<td>826</td>
<td>850</td>
</tr>
<tr>
<td>Per cent drop</td>
<td>15.83</td>
<td>29.4</td>
<td>411.12</td>
<td></td>
</tr>
<tr>
<td>Av. production of Station cows fed silage starting late August</td>
<td>1,350</td>
<td>1,167</td>
<td>1,067</td>
<td>950</td>
</tr>
<tr>
<td>Per cent drop</td>
<td>13.56</td>
<td>8.57</td>
<td>10.97</td>
<td></td>
</tr>
</tbody>
</table>
You will notice that these cows dropped almost 16% in September and over 29% in October, and then started to come back in production some in November.

This definitely indicates a lack of feed during September and October. Cows normally will drop in production from 5 to 11% per month throughout the lactation. This fall in September and October is 2 to 3 times as much as normal. We did not have any cows at the Experiment Station that calved in this period in 1955 but we did have a few calve earlier that milked through August, September, October and November but were fed silage. They dropped only 13.5% in September and 8.6% in October. This was the 8th and 9th month of their lactations when they usually drop in production faster than in other months. If cows drop way down in production for any cause, except in the very first part of their lactation, it is impossible to get them back to full production. They will come back some but never as high as they were.

The following are the herds that we had complete records on for the year. You can find your herd average by number:

<table>
<thead>
<tr>
<th>Herd No.</th>
<th>Av. No. cows</th>
<th>Milk</th>
<th>Fat</th>
<th>4% FCM</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>10.24</td>
<td>14,034</td>
<td>505</td>
<td>13,188</td>
</tr>
<tr>
<td>2</td>
<td>12.93</td>
<td>10,720</td>
<td>446</td>
<td>10,976</td>
</tr>
<tr>
<td>3</td>
<td>22.74</td>
<td>10,841</td>
<td>420</td>
<td>10,636</td>
</tr>
<tr>
<td>4</td>
<td>22.68</td>
<td>10,040</td>
<td>408</td>
<td>10,136</td>
</tr>
<tr>
<td>5</td>
<td>59.14</td>
<td>10,016</td>
<td>(380)?</td>
<td>9,706</td>
</tr>
<tr>
<td>6</td>
<td>25.24</td>
<td>10,286</td>
<td>363.9</td>
<td>9,648</td>
</tr>
<tr>
<td>7</td>
<td>8.00</td>
<td>10,301</td>
<td>358</td>
<td>9,492</td>
</tr>
<tr>
<td>8</td>
<td>23.04</td>
<td>8,739</td>
<td>313</td>
<td>8,195</td>
</tr>
<tr>
<td>9</td>
<td>15.6</td>
<td>8,450</td>
<td>306</td>
<td>7,975</td>
</tr>
<tr>
<td>10</td>
<td>6.0</td>
<td>7,762</td>
<td>280</td>
<td>7,297</td>
</tr>
<tr>
<td>11</td>
<td>19.3</td>
<td>7,597</td>
<td>273</td>
<td>7,210</td>
</tr>
</tbody>
</table>

Your herd number is _______.

The following table lists all the cows that produced over 10,000 lbs. of milk in 1955. The 4% FCM is listed to arrange the cows in the order of production. Few per cent fat-corrected milk is obtained by multiplying the amount of milk produced by .4 and the amount of fat by 15 and adding the two.

<table>
<thead>
<tr>
<th>Cow</th>
<th>Milk</th>
<th>Fat</th>
<th>4% FCM</th>
</tr>
</thead>
<tbody>
<tr>
<td>52h</td>
<td>20,530</td>
<td>702.8</td>
<td>18,754</td>
</tr>
<tr>
<td>607</td>
<td>16,878</td>
<td>572.9</td>
<td>15,314</td>
</tr>
<tr>
<td>2961</td>
<td>15,716</td>
<td>588.9</td>
<td>14,629</td>
</tr>
<tr>
<td>96-0306</td>
<td>11,830</td>
<td>568.1</td>
<td>11,053</td>
</tr>
<tr>
<td>2939</td>
<td>13,921</td>
<td>545.2</td>
<td>13,742</td>
</tr>
<tr>
<td>Cow</td>
<td>Milk</td>
<td>Fat</td>
<td>4% FCM</td>
</tr>
<tr>
<td>--------</td>
<td>-------</td>
<td>------</td>
<td>--------</td>
</tr>
<tr>
<td>2960</td>
<td>14,001</td>
<td>523.1</td>
<td>13.447</td>
</tr>
<tr>
<td>513</td>
<td>13,829</td>
<td>526.2</td>
<td>13.421</td>
</tr>
<tr>
<td>96-0107</td>
<td>13,394</td>
<td>529.9</td>
<td>13.396</td>
</tr>
<tr>
<td>325</td>
<td>12,908</td>
<td>526.7</td>
<td>13.371</td>
</tr>
<tr>
<td>195</td>
<td>13,352</td>
<td>517.1</td>
<td>13.261</td>
</tr>
<tr>
<td>2705</td>
<td>13,011</td>
<td>517.8</td>
<td>12.916</td>
</tr>
<tr>
<td>2046</td>
<td>11,957</td>
<td>516.2</td>
<td>12.875</td>
</tr>
<tr>
<td>7 C 552</td>
<td>13,516</td>
<td>506.6</td>
<td>12.867</td>
</tr>
<tr>
<td>29</td>
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