IOWA DAIRY INDUSTRY: Past, Present, and Future! YOU MAKE THE CALL!

Presented by: Leo Timms
https://www.extension.iastate.edu/dairyteam/

Safe!

Out!
Objectives

IOWA DAIRY INDUSTRY: PAST

IOWA DAIRY INDUSTRY: Present!

IOWA DAIRY INDUSTRY: FUTURE!
RULES

➢ SAFE IF YOU PARTICIPATE!
➢ OUT IF NOT ENGAGED!
➢ INSTANT REPLAYS & REVIEWS!
➢ NO PENALTIES FOR CHALLENGE
➢ NO REVERSING THE CALL!

➢ Chinese graphs: read Right to Left!
➢ X axis relates to NASS data in years when available
Dairy Cows in Iowa 1924 - 2018

1934
1.5 million

2020
220,000
Up 20,000 since 1997
Dairy Farms in Iowa

1984: 6000 herds
% IA Dairy operations by herd size 2006

- < 30
- 30 to 49
- 50 to 99
- 100 to 199
- 200 to 499
- 500 +
## % of cows by herd size

<table>
<thead>
<tr>
<th>Herd size</th>
<th>1999</th>
<th>2003</th>
<th>2007</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-29</td>
<td>6</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>30-49</td>
<td>17</td>
<td>12</td>
<td>8</td>
</tr>
<tr>
<td>50-99</td>
<td>40</td>
<td>31</td>
<td>22</td>
</tr>
<tr>
<td>100-199</td>
<td>23</td>
<td>27</td>
<td>21</td>
</tr>
<tr>
<td>200-499</td>
<td>10</td>
<td>13</td>
<td>15</td>
</tr>
<tr>
<td>≥ 500</td>
<td>4</td>
<td>13</td>
<td>30</td>
</tr>
<tr>
<td>Herd size</td>
<td>1993</td>
<td>2000</td>
<td>2007</td>
</tr>
<tr>
<td>-----------</td>
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<td>------</td>
<td>------</td>
</tr>
<tr>
<td>1-29</td>
<td>9</td>
<td>4</td>
<td>3.1</td>
</tr>
<tr>
<td>30-49</td>
<td>26.1</td>
<td>14</td>
<td>6.4</td>
</tr>
<tr>
<td>50-99</td>
<td>38.7</td>
<td>38</td>
<td>19</td>
</tr>
<tr>
<td>100-199</td>
<td>20.2</td>
<td>27</td>
<td>20.5</td>
</tr>
<tr>
<td>200-499</td>
<td>6</td>
<td>12</td>
<td>16</td>
</tr>
<tr>
<td>≥ 500</td>
<td>5</td>
<td></td>
<td>35</td>
</tr>
</tbody>
</table>
Milk Cows in Iowa in 1925

Figures indicate numbers of dairy cows in each Iowa county in 1925. Iowa total = 689,000 cows. Each cow symbol represents about 1,000 dairy cows.

1925 Average Production: 4,000 pounds/cow/year

Approximate Total 1925 Iowa Milk Production: 27,500,000 pounds
Milk Cows in Iowa in 1997

Figures indicate numbers of dairy cows in each Iowa county in 1997. Iowa total = 220,000 cows.

Each cow symbol represents about 1,000 dairy cows.

1997 Average Production: 16,100 pounds/cow/year

Approximate Total 1997 Iowa Milk Production: 35,400,000 pounds
Milk Cows in Iowa 2015

- Each cow represents about 1,000 dairy cows.
- Iowa’s total = 207,000
- Average milk production per cow = 22,444 pounds

Approximate total Iowa milk production 4,646,000,000 pounds

D = Undisclosed number of cows
Butter production in Iowa 1977-1985

<table>
<thead>
<tr>
<th>Year</th>
<th>Production</th>
</tr>
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<tbody>
<tr>
<td>1918</td>
<td>16,827,457</td>
</tr>
<tr>
<td>1924</td>
<td>27,213,957</td>
</tr>
<tr>
<td>1940</td>
<td>255,870,000 (2nd)</td>
</tr>
<tr>
<td>1955</td>
<td>181,928,000</td>
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</tbody>
</table>

21.2# milk = 1# butter
Iowa Ice Cream (gal.): 1970-1991

<table>
<thead>
<tr>
<th>Year</th>
<th>Amount (gal.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1955</td>
<td>12,515</td>
</tr>
<tr>
<td>2005</td>
<td>75,000,000 (Wells)</td>
</tr>
</tbody>
</table>

12# milk = 1 gallon ice cream
Iowa Yogurt (lbs.): 1990 - 2007

1# milk = 1# yogurt
IOWA’S DAIRY INDUSTRY 2020

- 1261 herds
  - 1045-dairy cows; 216- dairy goat; 1 dairy sheep
- 220,000 cows; 34,000 does
  - 12th nationally (cows, milk prod.)
  - 9th nationally – milk prod./cow
- 50 % herds < 100 cows; 15% > 200
- 24,800# milk/cow; 5.6 billion total lbs
- On farm milk $ value: $1 billion
- Value added processing: $2+ billion

- Supports 16,000+ jobs
  - (100 cows = 8 jobs)
- Total impact: $5.6 billion
- Each cow: $25,454 local $$ activity
Thanks for your attention

Enhancing Dairy Profits and Quality of Life

Fred Hall
Jennifer Bentley
Larry Tranel
Jan Shearer
Leo Timms Emeritus

$25,454 /cow LOCAL Economic Activity!
100 cows = 8 jobs!