**2024**

**Dairy Farm Milk Data for One month**

**Milk Calculations**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Day** | **Litres** | **Milkfat %** | **kg fat** | **Milk Protein %** | **kg Protein** | **Milksolids Test%** | **Milksolids Kg** | **Cows in vat** | **kg MS/cow** |
| 1 | 4550 | 4.8 | 218.4 | 3.6 | 163.8 | 8.40 | 382.2 | 203 | 1.88 |
| 2 | 4410 | 4.7 |  | 3.55 | 156.6 | 8.25 | 363.8 | 203 | 1.79 |
| 3 | 4510 | 4.8 |  | 3.56 |  | 8.36 | 377.0 | 203 | 1.86 |
| 4 | 4520 | 4.6 |  | 3.59 |  | 8.19 | 370.2 | 202 | 1.83 |
| 5 | 4400 | 4.9 |  | 3.57 |  | 8.47 | 372.7 | 202 | 1.84 |
| 6 | 4450 | 4.6 |  | 3.58 |  | 8.18 | 364.0 | 202 | 1.80 |
| 7 | 4425 | 4.7 |  | 3.57 |  | 8.27 | 365.9 | 202 | 1.81 |
| 8 | 4420 | 4.7 |  | 3.53 |  | 8.23 | 363.8 | 203 | 1.79 |
| 9 | 4000 | 4.8 |  | 3.54 |  | 8.34 | 333.6 | 202 |  |
| 10 | 4020 | 4.8 |  | 3.56 |  | 8.36 | 336.1 | 202 |  |
| 11 | 4025 | 4.9 |  | 3.52 |  | 8.42 | 338.9 | 202 |  |
| 12 | 4030 | 4.8 |  | 3.58 |  | 8.38 | 337.7 | 202 |  |
| 13 | 4045 | 4.7 |  | 3.58 |  | 8.28 |  | 200 |  |
| 14 | 4035 | 4.7 |  | 3.58 |  | 8.28 |  | 200 |  |
| 15 | 4020 | 4.8 |  | 3.58 |  | 8.38 |  | 200 |  |
| 16 | 4000 | 4.8 |  | 3.58 |  | 8.38 |  | 200 |  |
| 17 | 3990 | 4.9 |  | 3.58 |  | 8.48 |  | 200 |  |
| 18 | 4010 | 5 |  | 3.58 | 143.6 | 8.58 |  | 200 |  |
| 19 | 4000 | 5.2 |  | 3.58 | 143.2 | 8.78 |  | 200 |  |
| 20 | 3895 | 5.3 | 206.4 | 3.58 | 139.4 | 8.88 |  | 200 |  |
| 21 | 3900 | 5.1 | 198.9 | 3.58 | 139.6 | 8.68 |  | 200 |  |
| 22 | 3950 | 5.2 | 205.4 | 3.58 | 141.4 | 8.78 |  | 200 |  |
| 23 | 3960 | 5 | 198.0 | 3.58 | 141.8 | 8.58 |  | 200 |  |
| 24 | 3990 | 5.2 | 207.5 | 3.58 | 142.8 | 8.78 |  | 200 | 1.75 |
| 25 | 3940 | 5.3 | 208.8 | 3.58 | 141.1 | 8.88 |  | 200 | 1.75 |
| 26 | 3920 | 5.4 | 211.7 | 3.58 | 140.3 | 8.98 |  | 200 | 1.76 |
| 27 | 3850 | 5.5 | 211.8 | 3.58 | 137.8 | 9.08 |  | 200 | 1.75 |
| 28 | 3825 | 5.4 | 206.6 | 3.58 | 136.9 | 8.98 |  | 200 | 1.72 |
| 29 | 3820 | 5.3 | 202.5 | 3.58 | 136.8 | 8.88 | 339.2 | 200 | 1.70 |
| 30 | 3750 | 5.3 | 198.8 | 3.58 | 134.3 | 8.88 | 333.0 | 199 | 1.67 |
| 31 | 3670 | 5.5 | 201.9 | 3.58 | 131.4 | 9.08 | 333.2 | 199 | 1.67 |
|  |  |  |  |  |  |  |  |  |  |

***Exercise***

1. *Calculate kg fat.*
2. *Add up total fat for the month.*
3. *Calculate kg protein.*
4. *Calculate kg milksolids.*
5. *Calculate kgMS/cow.*
6. *Add up*

* *total litres for the month*
* *Total kg fat*
* *Total kg protein*

1. *If a farmer is paid $9/kgMS calculate the total income from milk for the month.*
2. *If a farmer is paid 10/kgMS calculate the total income from milk for the month.*
3. *If the price drop to $7.50 calculate the total income from milk for the month.*
4. *If dairy farms operating expenses are $8/kgMS. Calculate the overall income for the month for each payout price.*