|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ADDENDUM - Dry Matter Intake (DMI) Calculation Worksheet **- EXAMPLE**  Instructions: Complete this worksheet ***for each separate type (species) and class (stage of life or production)***of organic ruminant livestock. All animals in this group must be managed on the **same diet**. Make additional copies as necessary. If you do not conduct forage analysis to determine the exact percentage of dry matter, you may use the following assumptions:  Grain = 89% dry matter; Grain Silage = 25-35% dry matter; Dry hay = 90% dry matter; Haylage/Baleage = 35-60% dry matter   |  |  | | --- | --- | | **Livestock Type**  Lactating/Milking Cows  Dry Cows  Heifer/Yearling  Weaned Calves  Beef/Meat Animal – Breeder Stock  Beef/Meat Animal – Slaughter Stock  Other, specify: | | | **Dry Matter Demand (DMD)** 43 lbs/day | **Average weight:** 1200 lbs | | | | | | |
| **EXAMPLE** | **FEED RATIONS.** List each unique ration fed to calculate total DMI from pasture. | | | | |
| **Winter Ration** | **Grazing Season 1** | **Grazing Season 2** | **Grazing Season 3** | **Grazing Season 4** |
| **Start date** | 11/1/2017 | 5/2/2018 | 6/16/2018 | 7/30/2018 | 9/6/2018 |
| **End date** | 5/1/2018 | 6/15/2018 | 7/29/2018 | 9/5/2018 | 10/31/2018 |
| **(T) Total # days on grazing ration** | | (T) 44 | (T) 43 | (T) 37 | (T) 55 |
| **(GD) Total grazing days = sum of all (T) values**       (44+43+37+55) = 179 | | | | | |
|  | | | | | |
| **Feed Type** | Ear corn | Ear corn | Hay | Baleage | Hay |
| **(F) Amount fed (lbs.)** | 20 lbs. | 10 lbs | 15 | 20 | 10 |
| **(P) % Dry Matter** | .89 | .89 | .90 | .5 | .90 |
| **F x P =** | **DM Fed** *17.8 lbs.* | **DM Fed**8.9 | **DM Fed**13.5 | **DM Fed**10 | **DM Fed**9 |
|  |  |  |  |  |  |
| **Feed Type** | Hay | Hay |  |  | Silage |
| **(F) Amount fed (lbs.)** | 22 | 10 |  |  | 10 |
| **(P) % Dry Matter** | .90 | .90 |  |  | .35 |
| **F x P =** | **DM Fed**19.8 lbs | **DM Fed**9 | **DM Fed** | **DM Fed** | **DM Fed**3.5 |
|  |  |  |  |  |  |
| **Feed Type** | Silage | Silage |  |  |  |
| **(F) Amount fed (lbs.)** | 14 | 5 |  |  |  |
| **(P) % Dry Matter** | .35 | .35 |  |  |  |
| **F x P =** | **DM Fed**4.9 | **DM Fed**1.75 | **DM Fed** | **DM Fed** | **DM Fed** |
|  |  |  |  |  |  |
| **Feed Type** |  |  |  |  |  |
| **(F) Amount fed (lbs.)** |  |  |  |  |  |
| **(P) % Dry Matter** |  |  |  |  |  |
| **F x P = DM Fed** | **DM Fed** | **DM Fed** | **DM Fed** | **DM Fed** | **DM Fed** |
|  | | | | | |
| **Total DM Fed**  **Add all DM Fed** | **(A)** 42.5 | **(B)** 19.65 | **(B)** 13.5 | **(B)** 10 | **(B)** 12.5 |
| **Lbs. Dry matter from pasture during grazing season. (C) = (DMD) – (B)** | | **(C)** 42 – 19.65 = **22.35** | **(C)** 42 – 13.5 = **28.5** | **(C)** 42 – 10 = **30** | **(C)** 42 – 12.5 = **29.5** |
| **% Dry matter from pasture during this grazing season. (D) = C/A** | | **(D)** 22.35/42 = 0.53 | **(D)** 28.5/42 = 0.678 | **(D)** 30/42 = 0.714 | **(D)** 29.5/42 = 0.702 |
| **Contribution to total DMI from pasture**  **(E) = (T) x (D)** | | **(E)** 44 x 0.553 = 23.32 | **(E)** 43 x 0.678 = 29.15 | **(E)** 37 x 0.714 = 26.41 | **(E)** 55 x 0.702 = 38.61 |
| **(G) = sum of (E)**  117.5 | | **(AVG) Average DMI from pasture during grazing season = G / GD x 100**  117.5 / 179 x 100 = 65.64 | | | |