



**"A dairy/beef farm
management
software"**



**Registered in New Zealand under name of “Terminus Technologies Limited.”
#114, Barrington Drive, Huntington, Hamilton 3210, New Zealand**

- Head office & Research in New Zealand
- Development & Support office in Pakistan
- Terminus Technologies has been established to provide end to end software-based solution for multiple industries and services like billing for telecom & utilities services, trading, dairy & agriculture, healthcare, education, etc.



What is Avenz Software?



Avenz “a live stock management software” that helps farmers to effectively and proactively manage their dairy farm operations. Reproduction and health of animals is a key element for a dairy farm and it requires proactive approach. Here Avenzoar works for farmer to ease following tasks,

Animal Tagging

Animal identification is one of the key element in herd management. Identification can be based on Ear Tag, Birth Id, RFID, International ID or animal name.

Reproduction

Failure to detect oestrus (heat) is a major factor contributing to low fertility which is a cause to financial losses. Avenzoar tracks all upcoming event for heat, mating, pregnancy test, calving, dry off and animal vaccinations.

Expense & Inventory

With real time monitoring of farm inventories. A farm can proactively control expenses. Maintain records for the expenses on feed, minerals, vaccinations, etc. helps the farmer to control budget.

Production & Revenues

Monitoring farm production & revenues along with expenses are key factors to make a farm profitable.

<https://avenz.terminustech.com>



Main Modules



- Herd Management
 - Identification
 - Reproduction
 - Lactation
 - Health
 - Milk Production

- Sires
- Inventory & Assets
- Farm Economics & Sales
- Feed Management



Animal Detail

[← Back](#) [☰ Search Animals](#)



Animal Tagging & Information



- Flexible Animal Tag #
- RF ID / Birth ID
- Breed Composition
- Genetics information
- Pedigree Information
- Purchase & Sale Info

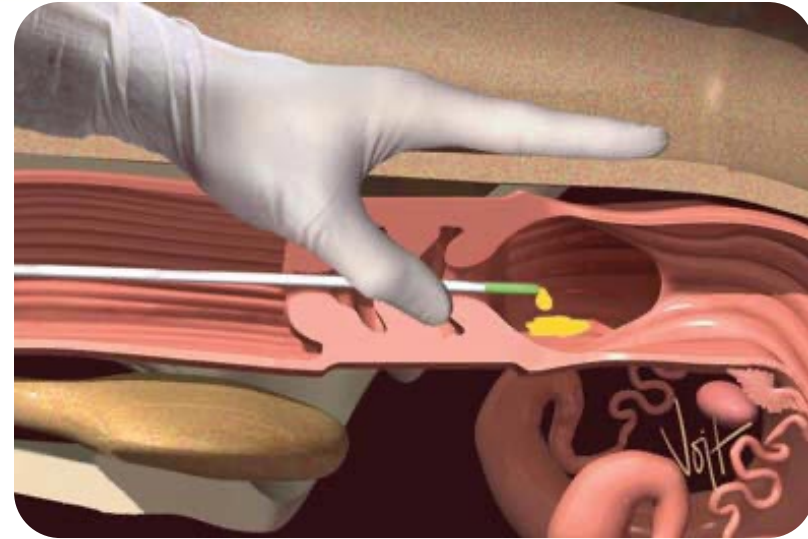
| Visual Tag: 100 | | | | Birth ID: LWXM-15-100 | |
|------------------------------|-------------------------------|----------------------|-------------------|-----------------------|-----------------------|
| <div>Information</div> | <div>Reproduction</div> | <div>Lactation</div> | <div>Health</div> | <div>Transfer</div> | <div>Life Cycle</div> |
| Assigned Groups | | | | | |
| DOB(Age) | 21/07/2015 (78 M) | | Gender / State | Female / Cow | |
| RFID | | | Name | 100 / LWXM-15-100 | |
| Farm Code / Name | TLS001 / DSL | | | | |
| Breed & Pedigree Information | | | | | |
| Animal Type/Breed | Cow --> Sahiwal | | Breed Composition | | |
| Dam Identity / ID | 22 / LWXM-12-20 (VTAG) / 1432 | | Dam Name | | |
| Sire Code / ID | 514680 / 775 | | Sire Name | SLICK GRAZER | |



AI in Time is Important



- Approximately half of the heats are undetected on dairy farms in the United States.
- Failure to detect cows result in economic loss for the producer because of extended calving intervals and additional semen expense.



If a herd producing 16000 pounds of milk per year and maintaining a 12.5 months calving interval is compared with the same herds maintaining a 13.5 months calving interval

Estimated potential milk loss is between \$ 35-45 per cow per year (depending upon milk price and feed costs)



Animal Reproduction





- Past & Due Mating
- Artificial & Natural Mating
- Pregnancy Test

- Past & Due Calving
- Single & Twins Calf
- Lactation

- Sire Detail
- Breeding Indicators

| Visual Tag: 100 | | Birth ID: LWXM-15-100 | | International ID: | | |
|-----------------------|-------------------|-----------------------|--------------|-------------------|--------------|---------|
| Information | Reproduction | Lactation | Health | Transfer | Life Cycle | Refresh |
| DOB(Age) | 21/07/2015 (78 M) | Gender / State | Female / Cow | Ownership | | |
| Farm Code / Name | TLS001 / DSL | | | Farm Consultant | | |
| Mating Information | | | | | | |
| Current Mating Staus | [Yes] | PTest | [Pregnant] | Mating Date | 04/12/2015 | |
| Sire Code | 514680 | Sire Name | SLICK GRAZER | Semen Type | Conventional | |
| Mating Type | Artificial | Synchronization | No | AI Technician | | |
| Services/Pregnancy | 0.00 | Preg. Concep. Rate | 100.00% | Open Days | 0.00 | |
| Days To First Service | 0.00 | Calving Interval | 0.00 | Milking Days | 2238 Days | |
| Breeding Plan | | | | | | |

| Add Heat Cycle | | Add Mating | | Add Calving | | |
|----------------|------------|-------------------|-----------|----------------|---|---|
| # | Date | Type | Detail | | | |
| 1 | 04/12/2015 | Normal Calving | #0, | Calf: Female,, | Mating Date: 04/12/2015 |  |
| 2 | 04/12/2015 | Artificial Mating | S/C: 1/0, | Sexed, | Sire: 514680 - SLICK GRAZER , Pregnant (04/12/2015) |  |



- Treatments & Vaccinations
- Weight & Body Condition Score
- Dr. Advice
- Medicines/Drugs information



| Visual Tag: 430 | | | Birth ID: BDPH-13-213 | | | International ID: NZLBDPH20130213 | | |
|------------------|--------------------------|-----------|-----------------------|-----------------|----------|-----------------------------------|-------------|---------|
| Information ▾ | Reproduction | Lactation | Health ▾ | Genetic Tests ▾ | Transfer | Life Cycle | | Refresh |
| DOB(Age) | 27/08/2013 (101 M) | | Gender / State | Female / Cow | | Ownership | TRG | |
| Farm Code / Name | TRG-0033 / COCHRANE ROAD | | | | | Farm Consultant | Pete Hapeta | |

Health Records

Treatment Schedule

| # | Date | Treatments | Drugs | Mk/Mt | |
|---|------------|-----------------------|---------------------|-------|---|
| 1 | 21/07/2021 | Leptospirosis | Rotovac | |   |
| 2 | 24/05/2021 | Dry Cow therapy (DCT) | Cefamaster Dry Cow | |   |
| 3 | 24/05/2020 | Teat Seal (TS) | Bio block Teat Seal | |   |
| 4 | 16/05/2019 | Teat Seal (TS) | Bio block Teat Seal | |   |

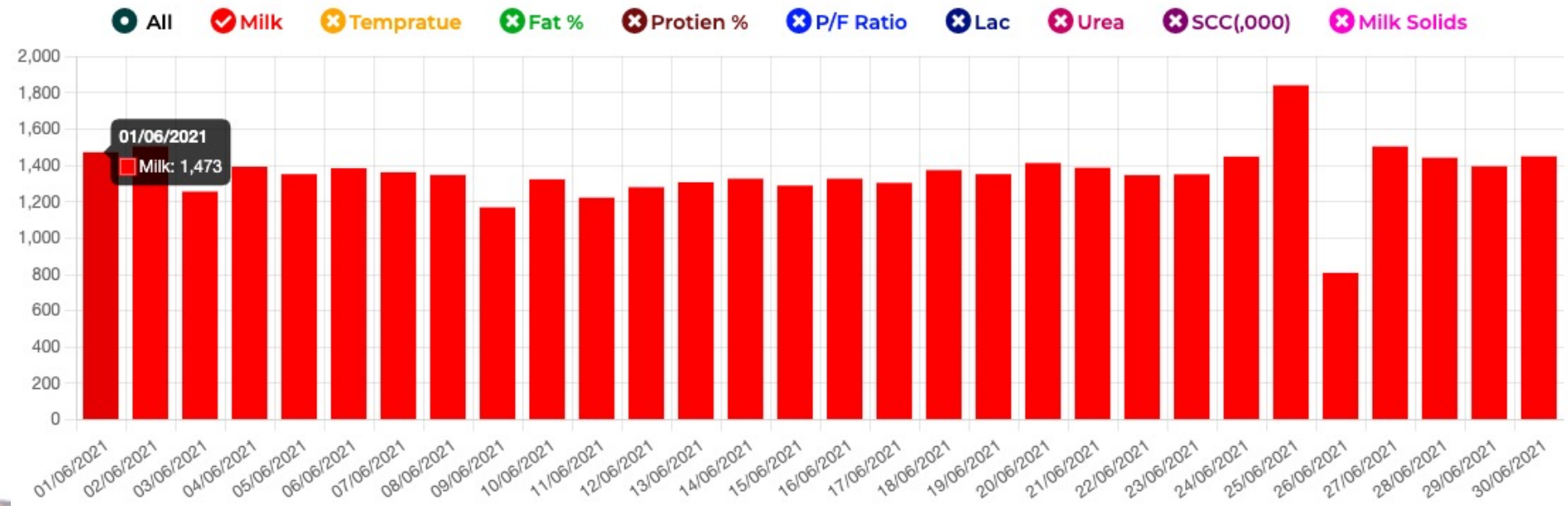
Milk Production



- Farm & Animal Level Production
- Average Production Per Animal
- Daily, Monthly and Yearly Reports & Graphs



Production Graph



Stock Inventory



- Stock Availability
- Stock Purchase History
- Stock Expenditure
- Consumption Daily, Monthly and Yearly
- Reports



| # | Name | Quantity | Unit | Type | Avg BRate | Calc BRate | Wastage |
|---|--------------|----------|--------|------|-----------|------------|---------|
| 1 | Green Fooder | 2,780.00 | Mounds | | 0.00 | | 0.00 % |
| 2 | Medication | 0.00 | Number | | 0.00 | | 0.00 % |
| 3 | Milk | 23.00 | Liter | | 0.00 | Yes | 0.00 % |
| 4 | Silage | 150.00 | Mounds | | 0.00 | | 0.00 % |
| 5 | Wheat Straw | 150.00 | Mounds | | 0.00 | | 0.00 % |



- Account Registration
- Milk Rate & Discount
- Current Outstanding Balance
- Milk and Other Product Sale
- Account Wise Sale
- Daily, Monthly and Yearly Report



| # | Account No./Name | Qty | Net Amnt | Carriage | Discount | Tax | Gross Amnt |
|-------|----------------------|-------|----------|----------|----------|------|------------|
| 1 | 451 / Angus Cafe | 10.00 | 45.00 | 0.00 | 0.00 | 0.00 | 45.00 |
| 2 | 452 / Countdown | 30.00 | 105.00 | 0.00 | 0.00 | 0.00 | 105.00 |
| 3 | 453 / Pk N Sav | 30.00 | 105.00 | 0.00 | 0.00 | 0.00 | 105.00 |
| 4 | 454 / Berklay School | 10.00 | 45.00 | 0.00 | 0.00 | 0.00 | 45.00 |
| Total | | 80.00 | 300.00 | 0.00 | 0.00 | 0.00 | 300.00 |

Collection



- Collection by Cash, Check, Credit Card and Wire Transfer
- Collection Against Products
- Realization & Return of Check Payments
- Adjustment by Credit/Debit Note
- Daily, Monthly and Yearly Sales and Collection Reports



| ◆ | Account / No | ◆ | Discount | ◆ | Tax | ◆ | Gross Amount | ◆ |
|------------------|------------------|---|----------|---|------|---|--------------|---|
| 1 | Angus Cafe / 451 | | 0.00 | | 0.00 | | 40.00 | |
| 2 | Countdown / 452 | | 0.00 | | 0.00 | | 105.00 | |
| 3 | Pk N Sav / 453 | | 0.00 | | 0.00 | | 105.00 | |
| Total Collection | | | 0.00 | | 0.00 | | 250.00 | |



Assets



- Tagging for Assets like Tractor, Trolley, Land, Milking Machine etc.
- Purchase Date & Price Information
- Asset Current Value
- Asset Categorization like Machinery, Land, Building etc.



| # | Code | Description | Price | Type | Date |
|---|------------------------|--------------------|------------|------------------------------------|------------|
| 1 | Milking-Machine | Milking-Machine | 30,000.00 | Machinery » Farm Equipment | 11/01/2022 |
| 2 | Sowing-01 | Sowing-01 | 15,000.00 | Machinery » Agricultural Machinery | 11/01/2022 |
| 3 | Tractor-01 | Tractor | 100,000.00 | Machinery » Agricultural Machinery | 11/01/2010 |
| 4 | Tractor-02 | Tractor-02 - E 240 | 120,000.00 | Machinery » Agricultural Machinery | 11/01/2011 |



Dashboard & Reports



Around 40 Plus Reports

| Registered Animals | 162 | |
|----------------------|-----|-------|
| Milking Animals | 123 | 75.46 |
| Dry Animals | 2 | 1.23 |
| Mated Animals | 124 | 76.07 |
| Empty Animals | 1 | 0.61 |
| Female Calves | 0 | 0.00 |
| Rising R1 | 18 | 11.04 |
| Heifer R2 | 0 | 0.00 |
| Heifers R3 | 0 | 0.00 |
| Heifers R4 | 0 | 0.00 |
| Bulls | 0 | 0.00 |
| Male Calves | 19 | 11.66 |
| Un-Registered Calves | 1 | |

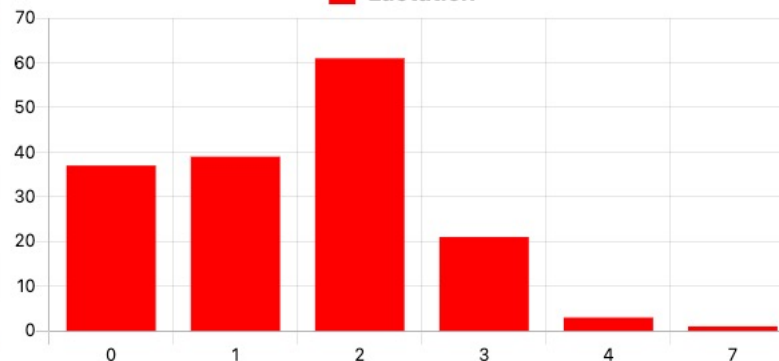
| Breeding Indicators | | |
|------------------------|----------|---------|
| Indicator | Achieved | Target |
| Heat Detection Rate | 0.00% | >70% |
| Pregnancy / Conception | 19.14% | >50% |
| Services Per Pregnancy | 5.22 | 1.6 |
| Open Days | 167.46 | 85 days |
| Non Return Rate | 14.29% | >75% |
| Days To First Service | 113.38 | 65 days |
| Calving Rate | 52.59% | |

■ Due date is passed ■ Due date within next 10 days □ Due date is within next 30 days

| Livestock Alerts | | | |
|--|------|------|------|
| Due Dry Off | | | |
| Animal that are due for Dry Off in next 30 days (16 Animals) | | | |
| 9 | 15 | 17 | 40 |
| 52 | 67 | 77 | 80 |
| 81 | 160 | 228 | 298 |
| 630 | 4250 | 5256 | 9011 |

| Registered Animals | | | |
|--------------------|---------------|---------|-------|
| # | Lactation | Animals | % |
| 1 | Lactation : 0 | 37 | 22.84 |
| 2 | Lactation : 1 | 39 | 24.07 |
| 3 | Lactation : 2 | 61 | 37.65 |
| 4 | Lactation : 3 | 21 | 12.96 |
| 5 | Lactation : 4 | 3 | 1.85 |
| 6 | Lactation : 7 | 1 | 0.62 |
| Total | | 162 | |

Lactation



Due Calvings

No Calving is due in next 30 days

No Calving happened in last 30 days

Due Mating

Animal that have due mating in next 30 days (1 Animals)

155

Due Pregnancy Test

Animal that are due for Pregnancy Test in next 30 days (83 Animals)

1

2

3

4

Dashboard & Reports



Around 40 Plus Reports

| Herd Reports | Reproduction | Lactation |
|-------------------------------|--------------|-----------|
| 1.1 - Search Animals | | |
| 1.2 - Animal Reports | | |
| 1.3 - Aggregated Reports | | |
| 1.4 - Animal Statistics | | |
| 1.5 - Animal Statistics Graph | | |
| 1.6 - Movement Report | | |
| 1.7 - Ownership Report | | |
| Culled Animals | | |
| 1.8 - Culled Animals | | |
| 1.9 - Archived Animals | | |
| Tag Reports | | |
| 1.10 - Tags Availability | | |
| 1.11 - RFIDs Report | | |

| Herd Reports | Reproduction | Lactation |
|-------------------------------|--------------|-----------|
| 2.1 - Expected Calvings | | |
| 2.2 - Empty Cows | | |
| 2.3 - Mating Statistics | | |
| 2.4 - Past Matings | | |
| 2.5 - Past Calving | | |
| 2.6 - Animal Calves | | |
| Sire Reports | | |
| 2.7 - Sires List | | |
| 2.8 - Bulls and Sires List | | |
| 2.9 - Bulls Priority | | |
| Performance Reports | | |
| 2.10 - Bull Performance | | |
| 2.11 - Principle Performance | | |
| 2.12 - Technician Performance | | |
| 2.13 - Vendor Performance | | |

| Herd Reports | Reproduction | Lactation |
|------------------------|--------------|-----------|
| 3.1 - Non-Milking Herd | | |
| 3.2 - Milking Herd | | |
| 3.3 - Lactation Report | | |

Health Reports

| Herd Reports | Reproduction | Lactation |
|--------------------------|--------------|-----------|
| 4.1 - Health Records | | |
| 4.2 - Weight Records | | |
| 4.3 - Aggregated Reports | | |

Alerts & Indicators

| Herd Reports | Reproduction | Lactation |
|-------------------------|--------------|-----------|
| 5.1 - Live | | |
| 5.2 - Herd Info & KPI's | | |
| 5.3 - KPIs Report | | |



Key Benefits



- Optimize reproduction indicators by monitoring data and taking proactive actions like heat detection, mating in time,
- Rate your animals based on traits, productions, etc.
- Control expenses and cash flows.
- Manage your inventory for milk, feed, medicines, straws, etc.
- Improve your sales process through system



- No Initial investment over hardware and its maintenance
- Only need a tab/laptop and internet connection to access portal
- System is accessible without any geographical limits
- System is accessible over Laptop, mobile etc.



Our Other Products



EUCLID

Telecom Billing & CRM Solution



farm|builder

A National Farm and Herd Improvement system



AVENZ

Dairy farm management software



RHAZES

Export livestock with traceability



BATTANI

Supply Chain management system



HAZEN

An online job register



AVICENNA

Health Care system



ANAXIM

Human Resource & Payroll System



THABIT

Student information system



Our solutions are available in perpetual and subscription models.



Thank You

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