

Project Proposal Pitch

Aidan Stoner, Rooby Dartiny, Daniel Andrusiewicz

Partner Problem

- Understand the performance of each individual doe
- “Performance” based on many measurable factors:
 - Doe’s birth weight
 - Kids birth weight
 - Twins, Triplets, or Single births
 - Kids birthed
 - Total number
 - Premature deaths
 - Birth weight
 - Motherly behavior
 - Milk production
 - Vigor Score



Proposed Solution

- Use a points system
 - The higher the total, the better the Doe
 - Can be used as an overall ranking, but specifics are simplified
- Give each measurable factor a total number of points
 - Assign positive characteristics a high amount of points
 - Assign negative characteristics a low amount / no points.



Performance Evaluation

- Based on many factors relating to ideal birthing of children
 - Health of the children are considered
 - Consistency = Higher Scores



The Scoring System

Number of kids:

- Twins = 4pts.
- Triplets = 3pts
- Single = 2pts.

Mothering:

- Good = 5pts.
- Anything else = 1pts.

Birth Weight:

- < 6lbs = 3pts.
- > 6lbs = 5pts.

Kids Weaned:

- All = 5pts.
- Anything else = 0pts.

Milk rating:

- Good = 5pts.
- Anything else = 1pts.

Kid Vigor Score:

- 1 = 5pts.
- 2 = 2pts.
- 3+ = 0pts.

How will this information be helpful?

- Gives an easily comparable single-number rank for every Doe
- Will be automatically computed, avoids the long and tedious process of manual searches and doing many comparisons across many different forms of criteria / data points / goats
- Can give insight on the causes of certain performance issues and successes



Group Design Problem

- Find out how a goat's Dam impacts their current status (sold/current/dead)
- Help recognize patterns between specific parents
 - Can be used in a ranking system, the more sold the better
- Assumes that a goat being sold is a positive attribute



Proposed Solution

- When Doe information is available for a given goat, attribute its current status to its parent Doe
 - Status can be Current, Sold, Dead
 - Current is a slight positive (+1)
 - Sold is very positive (+3)
 - Dead is negative (-3)
 - Exact point values can be changed.
- Can then sort through the entire list of Does to see which has the most consistent lineage



How will this information be helpful?

- Helps to identify well-performing Does
 - Helps forecast future performance of Does
- Can help increase sales by intentionally breeding more successful Does
- Can identify areas of improvement for certain Does
 - Finds trends if Does have children that are consistently dying, or remaining unsold for long periods of time

