Scenario:

- Want to purchase a terminal ram
- Flock of 50 commercial ewes
- 1.3 lambings per year
- 2 lambs weaned per litter
- Expect to use the ram for 5 years
- Total: 650 commercial lambs/ram
- All the lambs are sold as heavy lambs

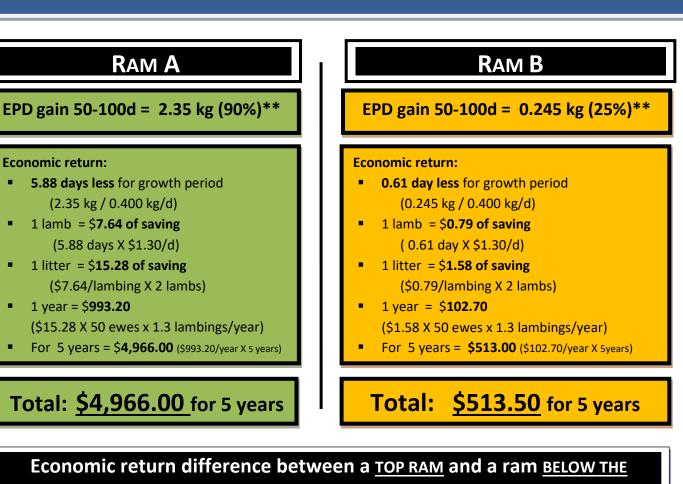
Terminal breeds:

- Select on genetic index GAIN or CARC
- Maximizes economic gains on several traits
- Example based on only one trait (gain 50-100 days*) to simplify the calculation and to have more reliable economic references.

The data presented here are real data of terminal rams.

Economic references

- Maintenance costs for lambs in the growth period: \$1.30/day (Calculation based on CECPA - Costs of production for sheep - 2021 personal communication, 2022)
- Average ADG (at the end of the growth period): 400 g/day (Project Repeat Measures, CEPOQ, 2015)



AVERAGE OF THE BREED ON EPD gain 50-100 day is: \$4,452.50

If you buy a ram not evaluated (without any genetic evaluation), then you will only know its true value according to the performance of its offspring. person To maximize your investment, buy evaluated rams. GenOvis



* Economic return calculated on all the traits of a genetic selection index will give essentially the same value.

**A genetic value indicates the potential performance of an animal. Animals must be in good breeding condition to express their entire potential.

WHY SHOULD WE SELECT IMPROVER TERMINAL RAMS?!?

Economic return related to the genetic values of the ram on EPD Gain 50-100 day

EPD Gain 50-100 day	Percentile	Economic Return on 5 years*
0.245 kg	25%	\$513.50
0.785 kg	50%	\$1,657.50
1.545 kg	75%	\$3,263.00
2.350 kg	90%	\$4,966.00

*Additional income as a result of the faster growth of his offspring.

Economic return:

- Better genetic value = higher economic return related to this trait
- An improver ram on CARCASS INDEX will improve lambs':
 - Growth rate
 - Muscularity
 - Fat deposition (leaner)
- An improver ram on MATERNAL INDEX will improve descendants':
 - Growth rate
 - Milk production
- An improver ram on MATERNAL HIGHER PROLIFICACY INDEX will improve descendants':
 - Prolificacy
 - Growth rate
 - Milk production

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Tips for terminal ram selection

- High growth rate
- Ultrasound for loin and fat depth
- Muscular
- Good conformation
- Improver for the breed

CARCASS INDEX (CARC)

Tips for maternal ram selection

(to produce replacement)

- High growth rate
- High prolificacy
- Good conformation
- Improver for the breed
- To get heavier lambs at weaning while maintaining prolificacy.

MATERNAL INDEX (MAT)

 To increase ewe prolificacy while also improving the lambs' growth rate

MATERNAL HIGHER PROLIFICACY INDEX (MAT-HP)

