

The Math:

Continuous grazing: 59 ac & 69 days of grazing

Pounds in – 28115

Pounds out – 37705

Difference = 9590 lbs weight gain/ 19 pairs = 504 lbs/pair gain

Residue on August 17th we clipped 1sq ft of growth in 6 spots on each side:

128.5 grams for 6 sq ft / 6 = 21.41 grams / 454grams/lb = 0.047 lbs/sq ft

0.047 x 43560 sq ft/acres = 2057 lbs/ac of wet residue.

Assume 50% moisture = 1023.5 lbs/ac x 59 ac = total of 60380 lbs produced

Average pounds consumed/day (cattle eat approx. 3% of their weight/day)

Pounds in 28115 + pounds out 37705 /2 = average weight over the 69 days

32910 x 3% = 987 lbs/day x 69 days = 68103 lbs DM consumed

68103 lbs DM consumed + 60380 lbs DM residue = 128,483 total lbs

Divided by 59 ac = 2177 lbs/ac

ADA = 32.9 AU x 69 days = 2270 AD / 59 ac = 38.4 ADA

Paddock grazing: 58.4 ac & 69 days of grazing

Pounds in – 28665

Pounds out – 37300

Difference = 8635 lbs weight gain/ 18 pairs = 479 lbs/pair gain

Residue on August 17th we clipped 1sq ft of growth in 6 spots on each side:

315.5 grams for 6 sq ft / 6 = 52.58 grams/sq ft divided 454grams/lb = 0.116 lbs/sq ft

0.116 x 43560 sq ft/acres = 5052 lbs/ac of wet residue.

Assume 50% moisture = 2526 lbs/ac x 58.4 ac = total of 147,518 lbs produced

Average pounds consumed/day (cattle eat approx. 3% of their weight/day)

Pounds in 28665 + pounds out 37300 /2 = average weight over the 69 days

32982 x 3% = 989 lbs/day x 69 days = 68241 lbs DM consumed

68241 lbs DM consumed + 147,518 lbs DM residue = 215,759 total lbs DM

Divided by 58.4 ac = 3694 lbs/ac

ADA = 32.9 AU x 69 days = 2270 AD / 58.4 ac = 38.9 ADA

Definitions:

ADA = Animal Days per Acre

AU = Animal Units

DM = Dry Matter