

## Rio Grande Valley Bull Gain Test & Heifer Development Program Test Terms

Bull/Heifer Test ID	- Tag number assignment at Rio Beef Feedyard/Rio Grande Valley Bull Gain Test
Tag Color	- Green- LSYB; Orange- LSBC; Yellow- EJBC; Pink- Heifers
Age Group	- Late Summer Yearling Bulls (LYSB) 8/1/08 - 10/31/08 - Late Senior Bull Calf (LSBC) 11/1/08 - 1/31/09 - Early junior Bull Calf (EJBC) 2/1/09 - 5/31/09
Ranch	- Your ranch name
Ranch ID	- Animal's ID number (brand or tag) given at the ranch
Breed	- Breed or breed cross
Birth Date	- Animal's birth date
Arrival Date	- Date cattle arrived at feed lot
Start Date	- Starting date of gain test, used for computations of age for WPDA and ADG
End Date	- Ending date of gain test, used for computations of age for WPDA and ADG
Lot	- Lot Number assigned by feedlot to each consignor
Age	- Age in days when animals were delivered to the feedlot
Warm Up Wt	- Weight (lbs) when delivered to the feedlot, start of 14 day warmup
On Feed Wt I	- Weight (lbs), bulls weighed on two consecutive days at the beginning of the test
On Feed Wt II	- Weight (lbs), bulls weighed on two consecutive days at the beginning of the test
On Feed Weight	- Average of On Feed weights I and II. Weight (lbs) at the start of the test
Warm Up Wt. Gain	- Weight (lbs) gain during the 14 day warmup period (not used to calculate gains)
Mid Weight	- Weight (lbs) at the mid point (56 days) (not used to calculate gains)
Mid-Wt Gain	- Total weight (lbs) gain after 56 days (not used to calculate gains)
Mid ADG	- ADG (Average daily gain) at the mid point of the test, 56 days on feed (not used to calculate gains)
US Wt	- Ultrasound Weight, Weight (lbs) on the date of ultrasound exam
Final Wt I	- Weight (lbs), bulls weighed on two consecutive days at the end of the test
Final Wt II	- Weight (lbs), bulls weighed on two consecutive days at the end of the test
Final Weight	- Average of Final Wt I and II. Weight (lbs) at the end of the test
Weight per Day	- Weight per Day of Age (WPDA) Final weight (lbs) divided by age in days
Final Gain	- Gain on test (Final Weight - On Feed Weight)
Final ADG	- ADG (Average daily gain) on test (Final Gain divided by 112 days)
Final Hip Ht.	- Height at the hip in inches measured at end of test
Frame Score	- Frame score calculated by BIF (Beef Improvement Federation) formula, different for bulls and heifers
Ribeye Area	- Ultrasound measure of ribeye area (REA) in square inches
REA/CWT Live	- Ribeye Area divided by hundred pounds of ultrasound live weight (US Wt), a measure of muscling, 1.2 square inches or higher is recommended for improving muscling
Fat Thick.	- Ultrasound measure of fat thickness at the 12 <sup>th</sup> -13 <sup>th</sup> rib in tenths of an inch
IM Fat %	- Ultrasound measure of percentage of intramuscular fat (IMF) or marbling
Final S.C.	- Scrotal Circumference, in centimeters, 2.54 cm = 1 inch (bulls), 32-34 cm for yearling bulls
Sheath Score	- Visual estimate of bulls 1 = Tight sheath, 5 = Pendulous sheath
Final BCS	- Body Condition Score measured at end of test; Visual Estimate 1 = very thin, 5-7 = optimal, 9 = very fat (heifers)
RTS (heifers)	- Reproductive Tract Score by palpation 1 = Infertile, 2, Underdeveloped and possibly subfertile (young), 3 and 4 = Developed and fertile, 5= Fertile and cycling (heifers)

- Navel Score (heifers) - Visual estimate of heifers 1 = Tight navel, 5 = Pendulous navel
- Pelvic Height - Height of pelvic opening in centimeters measured at end of test
- Pelvic Width - Width of pelvic opening in centimeters
- Pelvic Area - Pelvic height times pelvic width of pelvic opening in square centimeters  
160 sq. cm. or higher for 4 month old heifers
- ADG Ratio - Ratio of the bull against his age group average for ADG
- REA/CWT Ratio - Ratio of the bull against his age group average for REA/CWT
- WPDA Ratio - Ratio of the bull against his age group average for WPDA (Weight per day of age)
- Marbling Ratio - Ratio of the bull against his age group average for marbling or IMF
- S.C. Ratio - Ratio of the bull against his group average for scrotal circumference (SC)
- RGVBIA Ratio - Each of the above five ratios weighted by:
  - .35 (ADG)
  - .20 (REA/CWT)
  - .20 (WPDA)
  - .15 (IMF)
  - .1 (SC) and added together

3/24/10 JCP, BFC