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Exp. [67] in Canada, compared steers finished on a silage/barley totally mixed ration (TMR) vs. Available online: (accessed on 15 January 2022).Morón- Fuenmayor, O.; Araujo-Febres, O.; Rincón- Urdaneta, E. This equalization is important because Connell et al. [Google Scholar] [CrossRef]Fondo Nacional de Ciencia, Tecnología e Innovación (MCT-FONACIT). Estimating the energetic cost of feeding excess dietary nitrogen to dairy cows. Available online: [◆83.pdf](#) (accessed on 25 February 2021).Rodas González, A.; Huerta-Leidenz, N.; Jerez-Timaure, N. 1995, 112, 1331–1345. [Google Scholar]Torin, C.; Rodríguez, L.; Piñate, P.; Verdecia, I. [Google Scholar]Huerta-Leidenz, N.; Jerez-Timaure, N.; Rodas-González, A. Time until Harvest (Days)SUPPLImplant Protocol Total(n)MS an (%)SS bn (%)ZER-ZER cn (%)TBA/E2-ZER dn (%)1811 (7.7)12 (92.3)5 (38.5)8 (61.5)131950 (0)13 (100)7 (46.2)6 (46.2)132095 (29.4)12 (70.0)10 (41.2)7 (41.2)1722313 (72.2)5 (27.8)7 (61.1)11 (61.1)1823721 (100)0 (0)12 (42.9)9 (42.9)2125817 (100)0 (0)9 (47.1)8 (47.1)117 $\chi^2 = 65.98$; $p = 0.0006$ 2 = 2.66; $p = 0.75$ N = 99 Table 3. Bull carcasses were approximately 17 kg heavier, exhibited thinner backfat with wider thighs, less favorable conformation scores, and lower marbling levels compared to steers ($p < 0.05$; Table 7).The chi-square test did not ($p > 0.05$) detect differences between implant protocols in the frequencies for Venezuelan quality categories or USDA quality/yield grades. Growth and fabrication yield traits of bull carcasses according to supplementation and implant treatments (Experiment I). Arch. The Warner-Bratzler Shear Machine (G, Figure 1. [Google Scholar] [CrossRef]Acosta Castellanos, N.T. Efecto del sistema productivo sobre la dureza de cuatro cortes comerciales de ganado doble propósito del trópico alto en Cundinamarca, Colombia. Efecto del implante, de la castración y mestizaje en torres mestizos comerciales a pastoreo con suplementación. Regarding initial BW only in Experiment II, a significant variation by male class on the initial BW was detected (Table 6), and hence the model was adjusted for growth and carcass traits at a constant initial BW. Instead, steers were more responsive to ZER-ZER in terms of improving tenderness-related characteristics including shear force (Experiment II).Current observations somewhat support Lean et al. 2002, 20, 111–119. In partial agreement, Duynsveld et al. In general, the improvements in palatability attributes observed herein for bulls and steers with individual treatments or a combination of treatments were modest and may result insufficient to please local consumers. The international equivalences in the nomenclature of each commercial cut have been previously reported [43].A 20 cm long loin roast was removed from the lumbar portion, from which four steaks of 2.5 cm of thickness each were cut alternately. However, few studies have explored finishing cattle under pasture supplementation strategies. Non-castrated zebu-influenced calves are the main crop of cow-calf ranches operating in the savanna ecosystem of Venezuela [1]. 1991, 69, 2452–2462. [Google Scholar] [CrossRef]Reed, K.F.; Bonfá, H.C.; Dijkstra, J.; Casper, D.P.; Kebreab, E. Licensee MDPI, Basel, Switzerland. Composition of the forage supplements used in Experiment I.N.J.-T. 1983, 11, 225–229. Nonetheless, at harvest steers were younger (26 days approximately) than bulls ($p < 0.01$).No first-order interaction was detected for any of the carcass traits under study ($p \geq 0.10$). © 2022 by the authors. Bars with a common superscript lowercase letter (a, b) for IMPL treatments within the same SUPPL treatment do not differ ($p \geq 0.05$), and A,R-G. [Google Scholar]Venezuela, Decreto Presidencial No. 181, Carcass fabrication yield traits according to male class and implant protocol (Experiment II). Table 8. Time until Harvest (Days)Male classImplant ProtocolTotal(n)Steern (%)Bulh (%)ZER-ZER an (%)TBA/E2-ZER bn (%)1818 (46.7)8 (53.3)7 (46.7)8 (53.3)151957 (41.2)10 (58.8)11 (64.7)16 (35.3)172093 (30.0)17 (70.0)14 (40.0)6 (60.0)102232 (28.6)5 (71.4)3 (42.9)4 (57.1)7 $\chi^2 = 1.06$; $p = 0.78$ 2 = 2.06; $p = 0.56$ N = 49 Table 6. In two previous studies [28,59], carried out in the same ranch with a mixture of poultry litter and rice polishing offered to Brahman-influenced bulls, the traits related to meat tenderness (WBSF, ratings for amount of connective tissue and tenderness) slightly worsened with respect to the control (MS) group.Acosta Castellanos [65] in Colombia, reported that beef from cattle-fed forage or forage + grain diets were not different in WBSF (6.60 and 7.20 kg, respectively). 2008, 1, 2227. Steers and bulls were divided into two groups, balancing by breed type and implant treatment (Table 1). Effect of breed, grazing system and concentrate supplementation on fattening performance, carcass value, and meat quality of steers. The experiment design is depicted in Table 1.Nineteen calves had been castrated at weaning (7 months of age approximately), and 31 calves were left intact (bulls). The live animal conformation was determined by the visual evaluation of three trained personnel once a BW of 475 kg of weight was met or exceeded [35]. Carcass performance of cows, heifers, and bulls fattened to pasture in the savanna ecosystem. However, current results also suggest the multi-implant protocol that is designed to obtain this beneficial response in bull meat should be different from those that have been effective in eliciting a similar response in beef from steers.The sensory ratings for the TBA/E2-ZER bull steaks in both experiments and for ZER-ZER steer steaks in Experiment II were below 5, and the mean WBSF value was greater than the tenderness threshold (WBSF = 4.09 kg) of Rodas-Gonzalez et al. [34] demonstrated that multiple-implant protocols improved beef tenderness. N. 1–10. Carcass and meat quality characteristics of Brahman cross bulls and steers finished on tropical pastures in Costa Rica. The carcass-adjusted average daily gain was calculated from carcass-adjusted final BW, initial BW, and days on feed.Lots of cattle were successively slaughtered at a federally inspected abattoir located nearby the city of Barquisimeto, Lara State, approximately 500 km from the ranch. [Google Scholar] [CrossRef]Torres, C.R. The agroecosystem modules de Apure as an instrument to confront drought. Figure 3. Additionally, Experiment II did not show differences in either muscle thickness score or frame size score between treatments of cattle at the start of the fattening test. A survey of grass-fed harvested cattle in Venezuela [57] reported a mean BW at harvest of 465 ± 19.0 kg at > 36 months of age (by dentition) while in Colombia Flórez et al. Carcass and meat properties of six genotypes of young bulls finished under feedlot tropical conditions of Mexico. Proc. IMPL. ZER-ZER: corresponds to a dose (72 mg) of zeranol at d-0 followed by a second identical dose at d-90; TBA/E2-ZER: corresponds to a first dose containing 140 mg trenbolone acetate + 20 mg estradiol 17 β at d-0, followed by a second dose of zeranol (72 mg) at d-90. 1–35. Hormonal and non-hormonal implants on commercial steers on pasture with supplementation. Table S2. In the group of steer carcasses, a greater ($p < 0.01$) proportion of fat was trimmed from those treated with ZER-ZER compared to their TBA/E2-ZER counterparts (Table 9, Figure 2).A male class \times IMPL interaction ($p < 0.01$) was observed for WBSF, ratings for muscle fiber tenderness, amount of connective tissue, and overall tenderness (Table 10, Figure 3).Steaks derived from ZER-ZER-treated steers required lesser WBSF ($p < 0.01$) and were rated greater by the panelists for muscle fiber tenderness, overall tenderness, and amount of connective tissue ($p < 0.01$) as compared to those derived from TBA/E2-ZER-treated steers. Agron. [Google Scholar] [CrossRef] [PubMed]Arias, R.; Manrique, S.; Velasquez, A. In Germany. Schmutz et al. [Google Scholar] [CrossRef]Huerta-Leidenz, N.; Hernández, O.; Rodas-González, A.; Ordóñez, V.J.; Pargas, H.L.; Rincón, E.; del Villar, A.; Bracho, B. Unexpectedly, cattle offered vegetable residues (vegetables, fruits, and tubers) resulted in greater WBSF values (8.35 kg) than cattle offered forage only [65]. In the temperate zones, the discussion has been focused on grass- vs grain-fed beef in confined or semi-confined conditions, which are not particularly useful for producers in tropical rangeland environments. Hence, a follow-up to the study by Huerta-Leidenz et al. Definición e identificación de las Piezas de Una Canal; FONDONORMA; Caracas, Venezuela, 1982; pp. Available online: (accessed on 15 January 2022). Foutz, C.P.; Dolezal, H.C.; Gardner, T.L.; Gill, J.L.; Hensley, J.L.; Morgan, J.B. Anabolic implants effects on steers performance, carcass traits, subprimal yields, and Longissimus muscle properties. Moreover, the TBA/E2 increased sensory panel tenderness and connective tissue ratings in steaks from bulls compared with steaks from non-implanted bulls and bulls implanted with TBA alone [70]. For sensory traits variables, LMM was used and panelist was included as an additional random variable. The total area of the grazing module was 485 ha, divided into 61 paddocks of 7.4 ha of cultivated grasses. Within the MS group, these tenderness-related sensory traits did not ($p > 0.05$) vary by IMPL, whereas SS offered bulls implanted with the TBA/E2-ZER produced steaks that were perceived by the sensory panel as more tender and with a lesser amount of connective tissue than bulls offered SS and implanted with ZER-ZER and MS counterparts ($p < 0.05$; Figure 1).No differences ($p > 0.05$) in sensory traits were detected between the SS and MS groups implanted with ZER-ZER, but within the TBA/E2-ZER implanted group, steaks from SS bullocks received greater panelist ratings for muscle tenderness, overall tenderness, and amount of connective tissue than their MS counterparts ($p \leq 0.05$).The ANOVA indicated independent effects of SUPPL on cooking loss, WBSF values, and ratings for the juiciness of loin steaks ($p < 0.01$; Table 4). The other two lots of MS-treated bulls were lagged out and had to remain on the test until reaching the endpoint at d-237 ($n = 21$) or d-258 ($n = 17$).No supplementation \times implant interactions ($p \geq 0.05$) were observed for adjusted final BW, adjusted ADG, hot carcass weight or carcass dressing, or percentage yield of high valued, boneless, lean cuts (HVBLC) and derived co-products (clean bone and trimmable fat) from the carcass hindquarter (Table 3).Adjusted ADG was affected ($p < 0.01$) by supplementation treatment. After recording the hot carcass weight to estimate the hot carcass dressing yield (%), the following traits were evaluated 48 h postmortem in the chilled carcass: cold carcass weight to estimate cold carcass dressing yield (%), conformation profile score (1 = Very convex, 2 = Convex, 3 = Straight, 4 = Concave, 5 = Very concave; as detailed by Huerta-Leidenz et al. With a more advanced (B) maturity, traces of marbling have been reported in carcasses from four genetic groups (zebu and zebu \times dairy crossbreeds) of bulls implanted with a single dose of TBA/E2 and fed during 147 d under feedlot conditions [64]. Panelist ratings for bull meat (X 1 = extremely tough and 8 = extremly tender; Growth of F1 Bos taurus \times Bos indicus versus Bos indicus beef cattle in Venezuela. After d-60, animals were offered a finishing supplement (Strategic Supplement-Phase 2; Table S2) consisting of 50% of the whole cottonseed, 27% of rice polish, 7% of minerals, 10% of feather meal, 5% of molasses, as well as encapsulated bypass fat; ether extract (EE); 22.4%, as well as an additional source of bypass protein with low ruminal degradability [35].The second supplement was maintained for 122 d until the first heavy rainfall of the wet season. [Google Scholar] [CrossRef]Poppi, D.P.; McLennan, S.R. Nutritional research to meet future challenges. Frequency distribution by fattening days according to supplementation treatment and implant protocol (Experiment I). Bars with a common superscript uppercase letter (C, D) for SUPPL treatment within the same implant treatment, do not differ ($p > 0.05$). Breed. [Google Scholar] [CrossRef] [PubMed]Duckett, S.K.; Pratt, S.L. Anabolic implants, and meat quality: Meat Science and Muscle Biology Symposium. Fattening on pasture of beef calves differing in muscle thickness, frame size, and apparent Brahman genotype subjected to implant and supplementation regimes. Mean comparisons of carcass traits according to male class or implant protocol are depicted in Table 7.Few differences in carcass traits were detected between steers and bulls. Tropical Beef: Is There an Axiomatic Basis to Define the Concept? performed data statistical analyses. Effect of an anabolic growth-stimulating implant on the productive and economic response of steers of three breeds. VariableMale Classimplant protocol p-ValueSteern = 19) Bull(n = 31) ZER-ZER a (n = 25)TBA/E2-ZER b (n = 25) SEM CLASSIMPLCLASS \times IMPLInitial BW, kg333.78348.90339.16346.403.750.030.360.22Muscle thickness score c1.52.162.162.160.080.120.160.07Frame size score d2.111.962.081.950.090.570.410.11Hip height, cm135.01134.67133.8135.83.610.160.970.14Chronological age, mo.28.8029.6629.2129.460.780.040.540.12BW at end of supplementation test, kg475.26500.64484.56497.4413.690.030.420.65Final BW at shipment d e, kg484.21511.22494.88507.0413.800.020.320.85ADG1 (0–180 d), g800.29843.01814.43839.1116.770.220.410.71ADG2 (0–d of shipment), g777.63817.57790.71814.0715.750.040.120.27Adjusted BW at shipment kg 464.84490.77475.08486.7514.67

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