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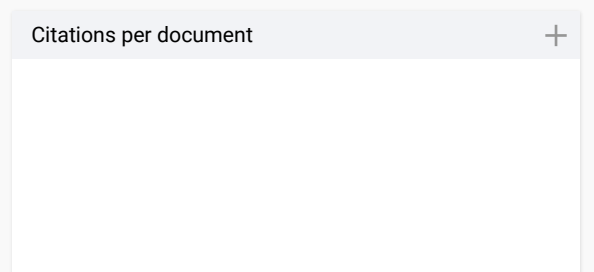
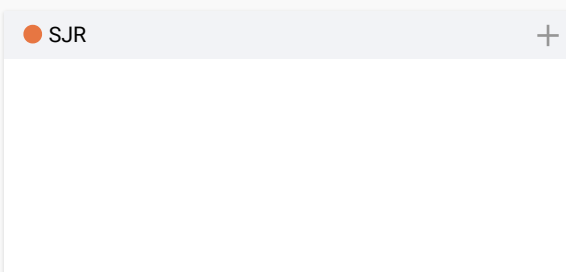
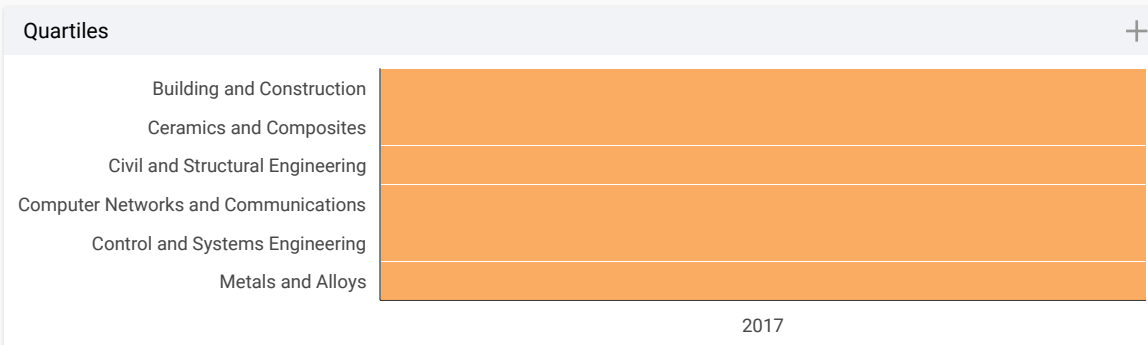


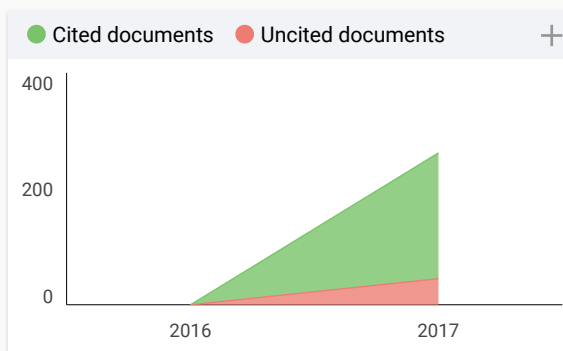
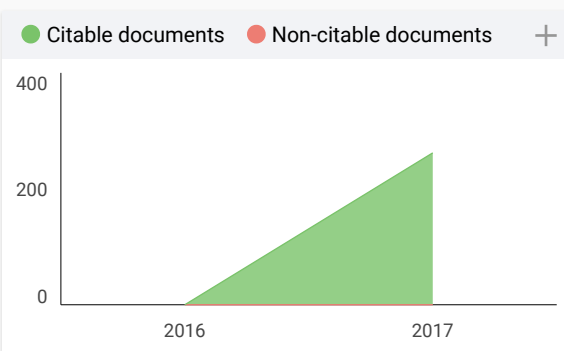
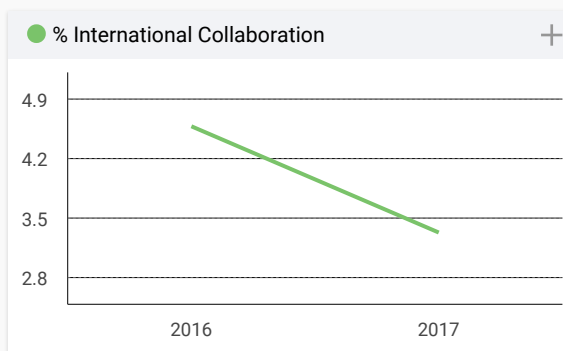
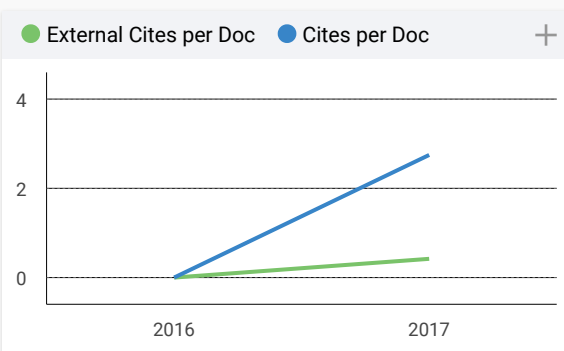
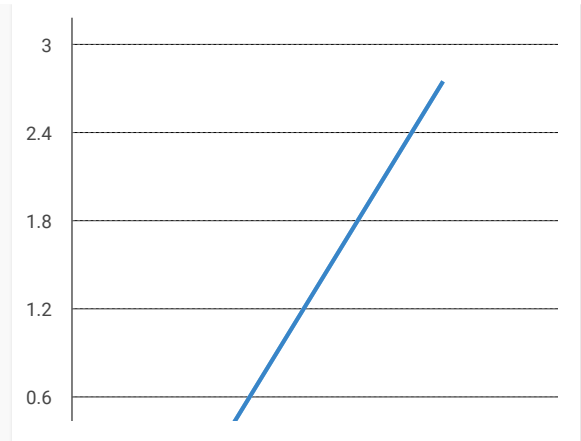
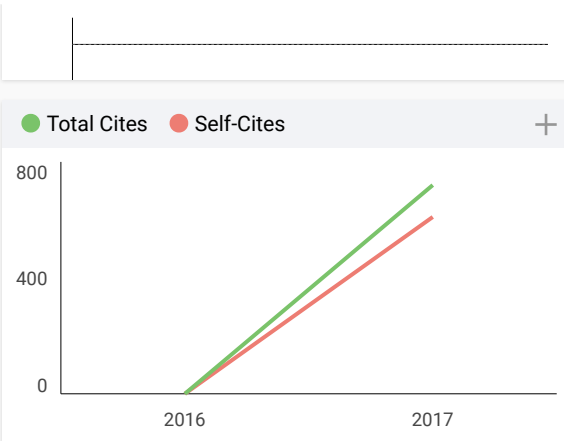
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INTERNATIONAL JOURNAL OF MECHANICAL ENGINEERING & TECHNOLOGY (IJMET)	9.2286	8.8293	7.5377	5.7731	3.8071	1.2083	0.8218
INTERNATIONAL JOURNAL OF CIVIL ENGINEERING & TECHNOLOGY (IJCIET)	9.7820	9.1215	7.9290	5.3277	3.1861	1.2000	0.8515
INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATION ENGINEERING & TECHNOLOGY (IJECET)	8.2691	7.9817	7.2836	5.8896	3.5930	0.8500	0.3258
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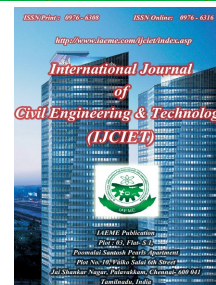
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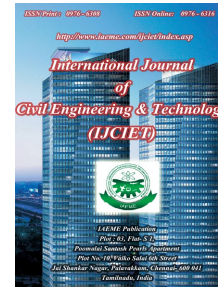
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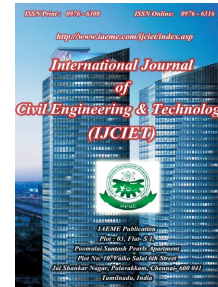
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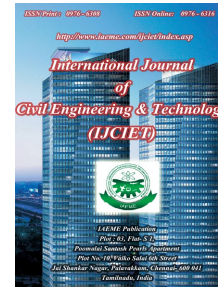
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STRATEGY OF STRENGTHENING THE FEED AND BEEF CATTLE DEVELOPMENT BASED ON THE UTILIZATION OF FOOD CROP WASTE IN GORONTALO REGENCY

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ABSTRACT

This research aims was to determine the production and carrying capacity of crop waste as a source of beef cattle feed, analyze the capacity of livestock development from the utilization of food crop waste and design the strategy of beef cattle development by utilizing the existing food crops in the province of Gorontalo by taking one the regency that is refresatif of Gorontalo Regency is finally followed by all districts in Gorontalo Province, because Gorontalo Regency is indeed a district that has the largest paangan plantation area and the largest population of livestock. The research was conducted in Gorontalo District in 2016. Site selection based on the amount of food crop production and the potential of beef cattle population where Gorontalo Regency has very high food crop production and largest ruminant's population (39.27%) from all regencies in Province Gorontalo.

The production of fresh rice straw based on harvested area is 767,197 tons /year or after converted to dry matter production is 366,293 tons / year. While the fresh production of maize straw is 729,679 tons/year or equal to 319,359 tons / year of dry matter production. Food crop waste has great potential as a source of beef cattle feed in Kabupaten Gorontalo. The carrying capacity of dry matter of food crops is 601.591 livestock unit (LU), so the Regional Government of Kab. Gorontalo can increase the population of adult beef cattle as much as 562,823 LU.

The priority strategy in the utilization of food crop waste as a source of beef cattle feed in Gorontalo regency were : 1) integrated agricultural development integrated cattle with rice and maize; 2) Improving the quality and saving capacity of food crops through technological inputs; 3) Establish a feed industry based on local resources; 4) Construction of beef cattle feed gardens in the central agricultural area and facilities and infrastructure of means of transportation; and 5) Institutional strengthening of livestock groups with legal status and provision of business capital from the government through group of farmers.

Keywords: beef cattle feed, Gorontalo Regency

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1. INTRODUCTION

Indonesia's agricultural policy related to food improvement to food independence and food sovereignty must be realized. Therefore, a relevant food security strategy is needed in order to strengthen community food security which includes: (1) stabilizing food availability based on independence; (2) increased accessibility and ability to access food; (3) increasing the quantity and quality of food consumption towards local food-based balanced nutrition; (4) improvement of community nutritional status; and (5) improvement of food quality and safety. The daily protein consumption per capita for meat in 2014 was 2.68 grams, an increase of 8.50 percent compared to the consumption in 2015 of 2.47 grams (Directorate General of Animal Husbandry, 2015)

To continue the efforts of self-sufficiency of beef cattle in 2018 it is necessary to increase the production of beef through the strengthening of fattening beef cattle feed, revitalization of modern slaughterhouses in Production centers, preventing productive female slaughter, and bluffing lust. Increased population and productivity of beef cattle should be followed by the provision of quality feed throughout the year. The form of animal feed strengthening is by provision of comprehensive animal feed which includes application of feed / forage budgetting concept, maintenance and utilization of food crop waste, superior forage development, integration business development between livestock and food crops or plantation crops, and excavation of potential of local feed. Food crop waste is one source of feed that can be used for the strengthening of fattening beef cattle feed.

The extent of agricultural area (rice and mayze) and the high production of food crops (rice and mayze) in Gorontalo Regency indicate the potential of strengthening of beef cattle feed can be fulfilled and this is one of the success factors of livestock development in Gorontalo Regency. However, grazing areas as feed providers tend to decrease every year. On the other hand, there has been a change of previous land function as a source of feed provider into residential, paddy/agricultural land to meet the demand for food and industrial crops due to the increasing of population.

Increasing the area of agricultural land implies an increase in the area of food crops. Increased intensification of food crops leads to an increase in the production of food crops waste. The high production of food crop wastes can certainly back-up the strengthening of feed. Untuk utilize food crop waste as beef cattle feed is necessary the existence of information and basic data about the potential and strengthening of food crop waste as beef cattle feed in Gorontalo. Given the baseline data, it is expected to become one of the focus of the government's attention in empowering food crop waste as beef cattle feed to support the strengthening of feed in Gorontalo Regency and regional in Gorontalo Province

Beef cattle as meat producers with forage main feed have constraints in the supply at all times, due to the decreasing of land and grazing and the availability of forage feed is strongly influenced by the season. This condition causes the availability not continuous throughout the year, so the utilization of food crop waste as animal feed becomes very urgent in meeting the availability of feed. The inability of domestic livestock production to meet local needs is

influenced by several limitations: (a) Mastery of technology, both in production and post-harvest handling, (b) Livestock capital capability, (c) Quality of human resources, and (d) availability of feed.

2. MATERIALS AND METHODS

2.1. Experimental Design

The research was conducted in Gorontalo District in 2016. Site selection based on the amount of food crop production and the potential of beef cattle population where Gorontalo Regency has very high food crop production and largest ruminants population (39.27%) from all regencies in Province Gorontalo. Types of food crop waste in the analysis is the waste of food crops of rice and maize. Measurements of food crops waste production are carried out by means of samples (tiles) for each commodity of food crops (rice and maize) that are ready or harvested with a 5 mx 5 m tile size or 25 m² tile area.

The carrying capacity of food crops is the ability of a region to produce food in the form of food crops of rice and maize without processing, and can provide feed to accommodate a number of beef cattle population. The forage needs of fodder can be calculated by calculating minimum feed requirements. The minimum feed requirement (FR) of ruminants for one livestock unit is:

$$FR = 2,5\% \times 50\% \times 365 \times 250 \text{ kg} = 1,14 \text{ ton of total digestible nutrient}$$

FR = Minimum feed requirement for one livestock unit (LU) in ton of dry Matter digested or also called DDM (Digestible Dry Matter) for one year.

2.50% = Minimum amount of feed ration needed (Dry matter) on their weight.

50% = Average digestibility value of various plant species.

365 = Number of days in a year.

250 Kg = Number of biomasses for one livestock unit.

Population calculation from head unit to livestock unit is done by multiplication factor: buffalo 0,8; cattle 0,7; horse 0,7; goats PE 0,07; Goat nuts 0,05; and sheep 0,06. The status of the carrying capacity of the feed according to the feed carrying strength index differentiates the criteria: Very Critical (VC) = < 2, Critical (C) = 2 - 3, Prone (P), > 3 - 4, Safe (S) = 4 - 5, and Very Safe (VS) = > 5, (Ashari, 2003). The value of increased capacity of beef cattle population in a region/sub-district is calculated as the difference between the carrying capacity of food crop feed with the number of livestock (Syamsu, 2006).

2.2. Measurement of IFPC and CCFC

An index of feed production concentration (IFPC) of food crops provides an overview of the production concentration of each food crop based on dry matter (DM) production of each region. IFPC is calculated using the formula:

$$IFPC = \frac{\text{Production of Food Crop Waste (Kecamatan)}}{\text{Average Production of District Food Crop Waste}}$$

Sub-districts with $IFPC \geq 1.0$ are areas that have production advantages with high production categories on certain types of plant waste compared to other areas. Sub-districts with $IFPC 0,5 - \leq 1.0$ are medium production and sub-district areas with $IFPC < 0.5$ are low production categories. The value of increased capacity of beef cattle population in a sub-district is calculated as the difference between the carrying capacity of food crop waste and the amount

of beef cattle available. The Carrying Capacity of Food Crops (CCFC) is calculated using the formula:

$$\text{CCFC base on DM} = \frac{\text{DM Production (ton/year)}}{\text{DM requirement for LU (ton/year)}}$$

3. Measurement of Livestock Development Capacity Analysis from Utilization of Food Crops Waste

a. Feed Carrying Capacity Index (IDDP) of Food Crop Waste

The feed carrying capacity index is the ratio between the amount of food crop feed available (ST) and the total population of ruminants (ST) that exist in a region (Syamsu, 2006).

b. Capacity of Increasing Cattle Livestock Population

The value of increased capacity of ruminant livestock population in a region is calculated as the difference between the carrying capacity of food crops feed and the number of cattle available (Syamsu, 2006).

c. Feed Carrying Capacity of Food Crop Waste

Feed carrying capacity of food crop waste (FCC-FCW) is calculated from the total production of dry matter of food crops available with the amount of feed requirement for a number of beef cattle population in the region as follows:

$$\text{FCC-FCW} = \frac{\text{Total Dry Matter Production}}{\text{Population (LU) x Average Consumption of Dry Matter 1 LU/Year}}$$

3. FINDING AND DISCUSSIONS

The results of the population of beef cattle are converted into livestock units (LU). The livestock concentration index is divided into three categories namely the areas of high, medium and low concentrations of livestock. The determination of the status of the beef cattle development is done by considering the concentration index of livestock (CIL). Population and CIL calculations are shown in Table 1.

Table 1. Population and Index of Beef Cattle Concentration in Gorontalo Regency.

No	Districs	Beef cattle Population		Concentration Index of Livestock	
		Heads	LU	Index	Category
1	Batudaa Pantai	1.031	519	0.25	Low
2	Biluhu	799	406	0,20	Low
3	Bataudaa	1.372	688	0,34	Low
4	Bilato	1.739	891	0.44	Low
5	Telaga	1.923	973	0.48	Low
6	Tilango	816	416	0,20	Low
7	Telaga Jaya	869	441	0,22	Low
8	Asparaga	3.795	1.966	0.96	Midium
9	Tabongo	3.905	1.881	0,92	Medium
10	Telaga Biru	3.165	1.620	0.79	Medium
11	Bongomeme	5.583	2.895	1,42	High
12	Dungaliyo	4.475	2.313	1,13	High
13	Tibawa	8.163	4.254	2,08	High

Strategy of Strengthening the Feed and Beef Cattle Development Based on the Utilization of Food Crop Waste in Gorontalo Regency

14	Pulubala	8.801	4.219	2,07	High
15	Boliyohuto	5.824	2.960	1,45	High
16	Mootilango	7.726	3.992	1,96	High
17	Tolangohula	6.166	3.154	1,55	High
18	Limboto	4.241	2.159	1,06	High
19	Limboto Barat	5.808	3.021	1.48	High
Total		75.487	38.769		

Explanation: $CIL > 1.0 = \text{High}$, $CIL 0,5 - 1,0 = \text{Medium}$, $CIL < 0,5 = \text{Low}$

The average area in Gorontalo Regency has a high CIL value and still dominates some areas or about 47%. This area is a region for marketing of production or supply of production facilities/infrastructure. The area with moderate CIL, only slightly or about 16%. Areas with CIL are currently becoming growth areas for intensive livestock development and agribusiness. Areas with a low CIL of about 37% are prioritized for the spread and development of livestock (livestock cultivation). With these data (Table 3), Gorontalo Regency Government needs to the strategy of equitable distribution of livestock by seeing the potential of agricultural products, especially food crops.

The concentration index of livestock in some sub-districts of low and high value indicates that the spread of beef cattle in Gorontalo regency is not evenly distributed and not based on the availability of food sources. This condition is usually affected by the feed source in an area and the public interest in maintaining and developing beef cattle. The ideal is that the average CIL value across all regions should be moderate. The solution that must be implemented by the government of Gorontalo Regency is to migrate livestock from densely populated areas to non-solid areas of course with regard to the availability of feed and the potential of the region and the suitability of livestock in the transmigration area. The purpose of this livestock migration in addition to making the distribution area evenly also make the endurance of feed evenly, so that the pattern of development is always aligned and pengembanagn welfare breeders will also be achieved quickly.

3.1. Production of Food Crops Waste

Production of food crop waste in a region can be estimated based on the area of harvested crops (Jayasurya, 2000). Based on the calculation of field data, the fresh produce and the production of dry matter of food waste of Gorontalo Regency is calculated based on the area of food crop harvest shown in Table 2.

Differences in the amount of production of fresh materials and dried materials of food crop waste can be caused by differences in cropping patterns, spacing, climatic conditions, soil fertility and land irrigation. The results of observation in the field that the pattern of monoculture plant will produce greater production than intercropping cropping pattern, spacing also affect the production of waste where a more dense plant spacing will produce more than the spacing is more rare while dry land contains more dry matter high compared to rice fields as proposed by Sofyan (2008) that the age of plants, climate and fertilization, determine the amount of food crop production so that the waste of straw produced is also more. The influence of climate and ecological conditions greatly determine the availability of forage feed in a region so that forages of livestock are not available throughout the year. In the rainy season the production is abundant and in the dry season the production is reduced or even absent (Sajimin et al, 2000).

to know the production of agricultural waste in a region can be estimated based on the area of harvest from the food crop. Further explained by Makkar (2002) that agricultural Waste is a food that is sourced from food crop waste and its production is very dependent on the type and number of planting area or cropping pattern of food crops in a region.

3.2. Carrying Capacity of Food Crops

The carrying capacity of food crops is the ability of a region to produce feed in the form of wastes of rice crops and maize crops waste without going through special processing and supplementation, and can provide feed to meet the needs of a number of beef cattle. In calculating the carrying capacity of food crop waste, it can be calculated with minimum feed requirement. The minimum feed requirement of ruminant livestock for one livestock unit (LU) is calculated based on livestock, where 1 LU requires 1.14 ton/year dry matter digestible (Thahar, 1991). The production of food crop wastes is able to prepare the feed source for beef cattle in Gorontalo Regency based on the carrying capacity of dry matter of 601.591 LU. Mootilango district is the region with the highest carrying capacity compared to other areas of 83.467 LU, then the next highest district were Tolangohula District 70.849 LU and Bongomeme District 53.766 LU. The district that has the lowest carrying capacity is Tilango District of 975 LU.

Table 3. Carrying Capability of Dry Matter Digestible, Beef Cattle Population (LU), Food Crop Waste Support Index, Capacity to Support Food Crop Waste and Increase Capacity of Livestock Population Cut.

No	Districks	CC of DM (LU)		Total CC-FCW (LU)	BCP (LU)	Index of CC-FCW	Capacity of CC-FCW	ICBC (LU)
		Rice	Maize					
1	Batudaa Pantai	223	4,159	4,382	519	7	VS	3,863
2	Biluhu	1,615	4,372	5,987	406	13	VS	5,581
3	Batudaa	668	1,951	2,619	689	3	Vr	1,930
4	Bongomeme	1,156	52,611	53,767	2,895	16	VS	50,872
5	Tabongo	27,038	21,558	48,595	1,881	23	VS	46,714
6	Dungaliyo	14,137	18,845	32,982	2,313	13	VS	30,669
7	Tibawa	21,646	18,991	40,636	4,254	8	VS	36,383
8	Pulubala	8,868	27,959	36,827	4,219	8	VS	32,608
9	Boliyohuto	33,154	8,980	42,133	2,960	12	VS	39,174
10	Mootilango	47,213	36,255	83,468	3,992	18	VS	79,476
11	Tolangohula	62,386	8,464	70,850	3,154	20	VS	67,696
12	Asparaga	21,044	28,026	49,070	1,966	22	VS	47,104
13	Bilato	2,819	25,975	28,793	891	28	VS	27,903
14	Limboto	25,701	6,648	32,349	2,158	13	VS	30,190
15	Limboto Barat	28,998	7,859	36,857	3,022	11	VS	33,835
16	Telaga	10,082	1,379	11,461	972	10	VS	10,488
17	Telaga Biru	11,029	3,688	14,717	1,620	8	VS	13,097
18	Tilango	-	975	975	417	2	C	559

19	Telaga Jaya	3,676	1,446	5,122	441	10	VS	4,681
	Total	321,452	280,140	601,592	38,769	14	VS	562,823

Legend: Carrying Capacity (CC), Livestock Units (LU)

Carrying Capacity of Food Crops Waste (CC-FCW)

Beef Cattle Population (BCP). Index of CC-FCW

Increased Capacity of Beef Cattle (ICBC)

Capacity of CC-FCW : Very Critical (VC) = < 2, Critical (C) = 2–3,

Vulnerable (Vr) = > 3 – 4, Safe (S) = 4 – 5, Very Safe (VS) = > 5

The carrying capacity of dry matter from the highest waste of rice cultivated in Tolangohula District was 62.386 LU, then the second highest was maize crop waste in Bongomeme District was 52.611 LU, and the carrying capacity of both food crops commodities is highest in Mootilango District was 83.467 LU. The high production in Mootilango and Tolangohula Districts because are agricultural centers of paddy rice and paddy fields, while Bongomeme is a maize farming center. The lowest carrying capacity was in Tilango 975 LU, and Batudaa District 2,619 LU, because Tilango District does not have rice field area where the location is located in limboto lake area, Tilango District only have land planted by maize, while Batudaa subdistrict is located in coastal area so that has no paddy fields, only paddy fields and fields for maize crops.

Carrying capacity of dry matter of food crops waste that can accommodate as much as 601.591 LU and with the total population of beef cattle as much as 38,768 LU, the potential of food crop waste as a source of feed is much higher than the existing cattle population of beef cattle. Thus, food crop waste has a high potential as a source of beef cattle feed, as proposed by Djajanegara (1999) that agricultural waste that can be used as feed ingredients such as rice straw, maize straw, soybean straw, peanut stover and shoot leaves yam. Rice straw is the largest agricultural waste in Indonesia. Rusdi (2012) further stated that the use of straw as animal feed is one alternative to reduce the bad impact of the existence of straw that is not exploited because it can save the use of other feed ingredients that have the potential to increase livestock population.

The carrying capacity index of food crops waste in all districts was at a very safe point, because the location is a center for rice crops, paddy fields and maize crops, but the districts are located in the vulnerable point that was Batudaa District because of this area located in the coastal area and critical point was Tilango District because it is located in limboto coastal area which both areas do not have paddy fields or paddy fields. With Feed carrying capacity of food crop waste (FCC-FCW) then all the areas located at the point of very safe then the region can accommodate livestock units (introduction of new livestock) in addition to livestock already owned by the region. Mootilango District with the highest carrying capacity of food crops that can accommodate 83.467 LU with a population of 3,991 LU, the area is still able to accommodate 79.475 LU beef cattle, then followed the second highest is Tolangohula District with the carrying capacity of food crops 70,849 LU, cattle 3.153 ST can still accommodate 67.696 LU.

Areas that are vulnerable and critical hence recommend not to increase the livestock population and seek to make the area safe as a supplier of this critical and prone area feed. To overcome the problem of feed in general can be done three approach. First, expanding the diversity of feed sources by making land use efforts for cultivating forage, agricultural and

industrial waste, and reviving the soil. In addition, by doing the system of farm aisles and the intensification of the yard land by utilizing the leguminous shrubs. Both improve feed quality by improving the quality of basal feed, enhancing the nutritional value of cereal proteins and eliminating the nutrient compounds in feed. Third, improving the feeding system with efforts made is improved livestock ration formulation in accordance with the tropics and feed management for livestock (Soetanto, 2000).

4. CONCLUSION

The production of fresh rice straw based on harvested area is 767,197 tons /year or after converted to dry matter production is 366,293 tons / year. While the fresh production of maize straw is 729,679 tons/year or equal to 319,359 tons / year of dry matter production. Food crop waste has great potential as a source of beef cattle feed in Kabupaten Gorontalo. The carrying capacity of dry matter of food crops is 601.591 livestock unit (LU), so the Regional Government of Kab. Gorontalo can increase the population of adult beef cattle as much as 562,823 LU.

The priority strategy in the utilization of food crop waste as a source of beef cattle feed in Gorontalo regency were : 1) integrated agricultural development integrated cattle with rice and maize; 2) Improving the quality and saving capacity of food crops through technological inputs; 3) Establish a feed industry based on local resources; 4) Construction of beef cattle feed gardens in the central agricultural area and facilities and infrastructure of means of transportation; and 5) Institutional strengthening of livestock groups with legal status and provision of business capital from the government through group of farmers.

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