Table 2. Chemical composition (%) of guava by- product (GBP), berseem hay and barley used in the experimental diets.

Items	Chemical composition							Nutritive values	
	Dry Matter	Organic Matter	Crude protein	Ether extract	Crude Fiber	N – Free Extract	Ash	N D F [*]	D E [**]
Guava by-product	93.70	90.57	9.12	9.50	38.90	33.05	3.09	56.20	1600
Berseen hay	89.00	81.12	11.82	2.51	31.25	35.54	7.88	51.99	1807
Barley	88.30	85.74	9.31	1.67	5.71	69.05	2.56	33.17	2731

* N D F = 28.924 + 0.657 (% CF on DM basis) according to Pagano Toscano *et al*. (1986)

**DE (K cal / g diet) = 4.36 – 0.0491 (% N D F), according to Fonnesbeck *et al*. (1974)

Table (3):Growth Performance of growing NZW rabbits as affected by diets containing guava by-product (GBP) from 5 to 11 weeks of age.

Items	Guava by-product levels in experimental Diets				Significance
	Control 0%	**5 %**	**10 %**	**15 %**	
Number of rabbits	9	9	9	9	-
Initial body weight (g)	638.05 ± 4.98	640.98 ± 5.13	639.65±5.01	641.23±5.19	N.S
Final body weight (g)	1591.87 [b] ± 76.93	1679.64 [a] ± 69.81	1577.93 [b] ±58.13	1535.41 [c] ±72.01	*
Body weight gain (g)	953.82 [b] ± 39.89	1038.66 [a] ± 19.77	938.28 [b] ±23.45	894.18 [c] ±25.16	*
Average daily gain (g)	22.71 [b] ± 1.58	24.73 [a] ± 1.37	22.34 [b]±1.41	21.29[b] ±1.56	*
Daily feed intake (g / d)	97.34 ± 9.30	99.39 ± 8.71	96.35±8.59	93.57±9.11	N.S
Feed conversion (g feed /g gain)	4.29 ± 0.17	4.02 ± 0.21	4.31±0.23	4.39±0.31	N.S
Protein efficiency Ratio (PER)	1.46 ± 0.01	1.55 ± 0.02	1.45±0.03	1.44±0.02	N.S

[a,b,c] Means within the same row with different litters differ significantly (P≤0.05).

N.S: Not significant   * P<0.05

Table (4) : Digestibility coefficients and nutritive values of the experimental diets

Treatment groups	Digestibility Coefficients (%)						Nutritive Values (%)		
	DM	OM	CP	CF	EE	NFE	DCP	TDN[**]	DE. Kcal / Kg[***]
Control (0.0 % GBP)	71.50 ± 0.78	73.01± 1.54[a]	74.10 ± 1.34[a]	29.21 ± 0.49	76.22 ± 1.18	75.99 ± 1.55	11.75 ± 0.03	57.45 ± 0.23	2545 ± 10.41
5.0 % GBP	72.04 ± 0.51	74.10 ± 0.97[a]	73.60 ± 0.85[a]	30.18 ± 0.57	76.44 ± 1.06	76.38 ± 1.72	11.91 ± 0.02	56.89 ± 0.24	2520 ± 10.52
10.0 % GBP	71.17 ± 0.91	72.52 ± 1.30[ab]	72.00 ± 0.66[b]	28.60 ± 0.61	76.08 ± 0.79	75.86 ± 1.52	11.59 ± 0.03	55.89 ± 0.16	2476 ± 6.93
15.0 % GBP	69.01 ± 1.05	71.20 ± 0.69[b]	68.12 ± 0.79[c]	26.81 ± 0.71	74.98 ± 1.20	75.27 ± 1.07	11.35 ± 0.03	54.99 ± 0.20	2436 ± 8.95
Significance	N.S.	*	*	N.S	N.S.	N.S	N.S	N.S	N.S

[a,b,c] Means within the same column with different litters differ significantly (P≤0.05).

N.S. Not significant   * P<0.05

** T D N % , D C P % were calculated according to classic formula (Cheeke *et al* .,1982)

 ***DE (Kcal/kg) calculated according to the equation described by Schiemann *et al*. (1972) as follows:
 DE (kcal/kg diet) = 5.28 (DCP g/kg) + 9.51 (DEE, g/kg) + 4.2 (DCF + DNFE, g/kg) ± 0.3.

Table (5): Some Carcass characteristics of NZW rabbits as affected by feeding the experimental diets

Items	Guava by-product levels in experimental diets (%)				Significance
	Control 0%	**5 %**	**10 %**	**15 %**	
Pre-slaughter Weight(g)	1607.92 [b] ±40.99	1692.56 [a] ±40.52	1591.71 [b] ±34.89	1557.42 [b] ±43.34	*
Dressing Weight (%)	57.06 ±0.47	58.24 ±0.70	56.35 ±0.18	56.25 ±0.22	N.S
Carcass Weight (%)	53.33 ±0.29	54.20 ±0.21	52.90 ±0.40	52.61 ±0.33	N.S
Giblets Weight (%)	3.92 ±0.04	4.20 ±0.13	3.99 ±0.10	4.18 ±0.07	N.S
Caecum Parameters: Length (cm)	33.6 ±0.62	35.6 ±0.72	36.2 ±0.35	36.6 ±0.48	N.S
Circumference (cm)	5.2 ±0.09	5.3 ±0.14	5.2 ±0.09	5.5 ±0.06	N.S
Full Weight (g)	130 ±1.15	136 ±0.58	133 ±0.88	138 ±0.87	N.S

[a,b,c] Means within the same row with different litters differ significantly (P≤0.05).

N.S. Not significant   * P<0.05

Table (6): Economic evaluation of the experimental diets as affected by dietary Guava by-product levels .

| Items | Guava by-product levels in experimental diets (%) | | | | Significance |
	Control 0%	5 %	10 %	15 %	
Feed conversion	4.29	4.02	4.31	4.39	-
Price of K g diet (P . T)	93.86	91.46	87.26	83.16	-
Feed cost of gain (L.E)[*]	4.03	3.68	3.76	3.65	-
Price of gain (L . E)	11.45	12.46	11.26	10.73	-
Net revenue (L . E)[**]	7.42	8.78	7.50	7.08	-
Economic efficiency	184.12	238.59	199.47	193.97	-
Relative revenue	100.00	129.58	108.34	105.35	-
Performance index (P I)	37.11[b] ± 0.20	41.78[a] ± 0.75	36.61[b] ±0.27	34.97[C]±0.24	*

Price of one ton of berseem hay 400 L.E. , barley 1250 L.E. and guava by-product 200 L.E , Price of live weight = 12 L .E , Body revenue, L.E = Body gain × Price of live weight.,
* Feed cost , L.E = Feed intake × price of Kg diet
** Net revenue, L.E= Body revenue – Feed cost