

Table 4: Effect of dietary treatments on milk production during suckling periods.

| Items                 | Control             | CO                  |                     | CO+EM <sub>1</sub>  |                      | CO+TR               |                     |
|-----------------------|---------------------|---------------------|---------------------|---------------------|----------------------|---------------------|---------------------|
|                       | diet                | 15%                 | 30%                 | 15%                 | 30%                  | 15%                 | 30%                 |
| Milk production (g/d) |                     |                     |                     |                     |                      |                     |                     |
| 1 <sup>st</sup> week  | 98.11 <sup>b</sup>  | 95.43 <sup>b</sup>  | 90.75 <sup>b</sup>  | 110.67 <sup>a</sup> | 104.31 <sup>ab</sup> | 115.54 <sup>a</sup> | 112.26 <sup>a</sup> |
|                       | ±1.96               | ±1.92               | ±1.89               | ±1.86               | ±1.89                | ±1.91               | ±1.90               |
| 2 <sup>nd</sup> week  | 144.23 <sup>b</sup> | 140.55 <sup>b</sup> | 138.87 <sup>b</sup> | 159.35 <sup>a</sup> | 150.89 <sup>ab</sup> | 169.11 <sup>a</sup> | 160.58 <sup>a</sup> |
|                       | ±2.25               | ±2.24               | ±2.24               | ±2.25               | ±2.23                | ±2.26               | ±2.24               |
| 3 <sup>rd</sup> week  | 195.74 <sup>b</sup> | 192.76 <sup>b</sup> | 190.34 <sup>b</sup> | 208.86 <sup>a</sup> | 201.84 <sup>a</sup>  | 212.98 <sup>a</sup> | 210.78 <sup>a</sup> |
|                       | ±1.89               | ±1.90               | ±1.88               | ±1.87               | ±1.90                | ±1.92               | ±1.91               |
| 4 <sup>th</sup> week  | 112.45 <sup>b</sup> | 109.32 <sup>b</sup> | 108.14 <sup>b</sup> | 121.87 <sup>a</sup> | 120.44 <sup>a</sup>  | 125.11 <sup>a</sup> | 122.47 <sup>a</sup> |
|                       | ±1.98               | ±2.02               | ±2.10               | ±2.01               | ±1.99                | ±2.05               | ±1.98               |
| Milk yield (g/d)      | 137.63 <sup>b</sup> | 134.52 <sup>b</sup> | 132.03 <sup>b</sup> | 150.19 <sup>a</sup> | 144.37 <sup>ab</sup> | 155.69 <sup>a</sup> | 151.52 <sup>a</sup> |
|                       | ±0.91               | ±0.90               | ±0.89               | ±0.91               | ±0.88                | ±0.92               | ±0.91               |

<sup>a,b,c</sup> Means within the same row with different superscript are significantly differ (P≤0.05).

CO = Untreated Conocarpous , EM1= Effective microorganisms, TR.= Trichoderma reesi fungi.

Table 5: Effect of dietary treatments on milk composition.

| Items   | Control            | CO                 |                    | CO+EM <sub>1</sub> |                     | CO+TR              |                    |
|---------|--------------------|--------------------|--------------------|--------------------|---------------------|--------------------|--------------------|
|         | diet               | 15%                | 30%                | 15%                | 30%                 | 15%                | 30%                |
| DM      | 36.55 <sup>b</sup> | 35.01 <sup>c</sup> | 34.11 <sup>c</sup> | 38.44 <sup>a</sup> | 37.11 <sup>ab</sup> | 40.15 <sup>a</sup> | 39.36 <sup>a</sup> |
|         | ±0.88              | ±0.89              | ±0.88              | ±0.89              | ±0.88               | ±0.91              | ±0.90              |
| CP      | 15.00 <sup>b</sup> | 14.54 <sup>c</sup> | 14.01 <sup>c</sup> | 16.01 <sup>a</sup> | 15.98 <sup>ab</sup> | 16.86 <sup>a</sup> | 16.17 <sup>a</sup> |
|         | ±0.37              | ±0.38              | ±0.39              | ±0.38              | ±0.39               | ±0.38              | ±0.37              |
| Fat     | 16.58 <sup>b</sup> | 15.86 <sup>c</sup> | 15.12 <sup>c</sup> | 18.45 <sup>a</sup> | 17.64 <sup>ab</sup> | 18.74 <sup>a</sup> | 18.25 <sup>a</sup> |
|         | ±0.36              | ±0.37              | 0.35               | ±0.38              | ±0.35               | ±0.36              | ±0.37              |
| Lactose | 3.25               | 3.21               | 3.11               | 3.33               | 3.29                | 3.36               | 3.35               |
|         | ±0.13              | ±0.09              | ±0.10              | ±0.11              | ±0.08               | ±0.12              | ±0.09              |
| Ash     | 2.96               | 3.00               | 3.05               | 2.85               | 2.91                | 2.70               | 2.81               |
|         | ±0.12              | ±0.08              | ±0.14              | ±0.08              | ±0.09               | ±0.13              | ±0.11              |

<sup>a,b,c</sup> Means within the same row with different superscript are significantly differ (P≤0.05).

CO = Untreated Conocarpous , EM1= Effective microorganisms , TR. = Trichoderma reesi fungi.

Table 6: Effect of dietary treatments on litter performance.

| Items             | Control              | CO                   |                      | CO +EM <sub>1</sub>  |                       | CO +TR               |                      |
|-------------------|----------------------|----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|
|                   | diet                 | 15%                  | 30%                  | 15%                  | 30%                   | 15%                  | 30%                  |
| Litter sizet      |                      |                      |                      |                      |                       |                      |                      |
| Birth (Total)     | 7.15 <sup>b</sup>    | 6.89 <sup>c</sup>    | 6.71 <sup>c</sup>    | 8.27 <sup>a</sup>    | 7.36 <sup>b</sup>     | 8.48 <sup>a</sup>    | 8.33 <sup>a</sup>    |
|                   | ±0.14                | ±0.17                | ±0.16                | ±0.15                | ±0.17                 | ±0.19                | ±0.18                |
| Birth (live)      | 6.55 <sup>b</sup>    | 6.34 <sup>b</sup>    | 6.22 <sup>b</sup>    | 7.81 <sup>a</sup>    | 6.93 <sup>ab</sup>    | 7.98 <sup>a</sup>    | 7.85 <sup>a</sup>    |
|                   | ±0.17                | ±0.16                | ±0.15                | ±0.15                | ±0.16                 | ±0.16                | ±0.15                |
| 21 days           | 6.01 <sup>b</sup>    | 5.52 <sup>c</sup>    | 5.41 <sup>c</sup>    | 7.02 <sup>a</sup>    | 6.14 <sup>b</sup>     | 7.54 <sup>a</sup>    | 7.11 <sup>a</sup>    |
|                   | ±0.18                | ±0.17                | ±0.16                | ±0.15                | ±0.16                 | ±0.17                | ±0.16                |
| 28 days           | 5.78 <sup>c</sup>    | 5.36 <sup>c</sup>    | 5.24 <sup>c</sup>    | 6.91 <sup>ab</sup>   | 6.03 <sup>b</sup>     | 7.42 <sup>a</sup>    | 7.01 <sup>a</sup>    |
|                   | ±0.17                | ±0.16                | ±0.15                | ±0.17                | ±0.18                 | ±0.17                | ±0.15                |
| Weaning           | 5.69 <sup>b</sup>    | 5.11 <sup>c</sup>    | 5.01 <sup>c</sup>    | 6.79 <sup>ab</sup>   | 5.88 <sup>b</sup>     | 7.03 <sup>a</sup>    | 6.95 <sup>a</sup>    |
|                   | ±0.18                | ±0.17                | ±0.18                | ±0.16                | ±0.17                 | ±0.18                | ±0.17                |
| Litter weight (g) |                      |                      |                      |                      |                       |                      |                      |
| Birth             | 365.56 <sup>b</sup>  | 338.75 <sup>bc</sup> | 319.52 <sup>c</sup>  | 465.94 <sup>a</sup>  | 398.54 <sup>ab</sup>  | 493.56 <sup>a</sup>  | 474.22 <sup>a</sup>  |
|                   | ±23.56               | ±21.69               | ±20.78               | ±26.75               | ±23.64                | ±25.76               | ±22.41               |
| 21 days           | 2129.77 <sup>b</sup> | 1945.52 <sup>c</sup> | 1896.10 <sup>c</sup> | 2525.37 <sup>a</sup> | 2182.52 <sup>b</sup>  | 2730.61 <sup>a</sup> | 2562.80 <sup>a</sup> |
|                   | ±62.12               | ±55.43               | ±58.79               | ±61.76               | ±61.74                | ±58.36               | ±62.34               |
| 28 days           | 2598.23 <sup>b</sup> | 2350.68 <sup>c</sup> | 2242.51 <sup>c</sup> | 3299.94 <sup>a</sup> | 2776.27 <sup>ab</sup> | 3607.83 <sup>a</sup> | 3376.09 <sup>a</sup> |
|                   | ±65.46               | 71.65                | ±66.74               | ±72.11               | ±69.14                | ±77.92               | ±71.56               |
| Weaning           | 2666.50 <sup>b</sup> | 2327.91 <sup>c</sup> | 2256.85 <sup>c</sup> | 3560.27 <sup>a</sup> | 2903.31 <sup>ab</sup> | 3746.71 <sup>a</sup> | 3675.23 <sup>a</sup> |
|                   | ±87.41               | ±90.47               | ±84.23               | ±77.45               | ±79.39                | ±85.36               | ±81.22               |
| Kit weight (g)    |                      |                      |                      |                      |                       |                      |                      |
| Birth             | 55.81 <sup>b</sup>   | 53.43 <sup>b</sup>   | 51.37 <sup>b</sup>   | 59.66 <sup>a</sup>   | 57.51 <sup>ab</sup>   | 61.85 <sup>a</sup>   | 60.41 <sup>a</sup>   |
|                   | ±1.98                | ±2.01                | ±2.32                | ±1.93                | ±1.97                 | ±2.41                | ±2.15                |
| 21 days           | 354.37 <sup>b</sup>  | 352.45 <sup>b</sup>  | 350.48 <sup>b</sup>  | 359.74 <sup>a</sup>  | 355.46 <sup>ab</sup>  | 362.15 <sup>a</sup>  | 360.45 <sup>a</sup>  |
|                   | ±16.78               | ±15.71               | ±17.56               | ±15.74               | ±14.45                | ±16.25               | ±17.35               |
| 28 days           | 449.52 <sup>b</sup>  | 438.56 <sup>b</sup>  | 427.96 <sup>b</sup>  | 477.56 <sup>a</sup>  | 460.41 <sup>ab</sup>  | 486.23 <sup>a</sup>  | 481.61 <sup>a</sup>  |
|                   | ±17.01               | ±15.96               | ±16.74               | ±14.69               | ±15.76                | ±17.54               | ±16.97               |
| Weaning           | 468.63 <sup>b</sup>  | 455.56 <sup>b</sup>  | 450.47 <sup>b</sup>  | 524.34 <sup>a</sup>  | 493.76 <sup>ab</sup>  | 532.96 <sup>a</sup>  | 528.81 <sup>a</sup>  |
|                   | ±14.36               | ±15.38               | ±17.36               | ±16.47               | ±15.26                | ±15.58               | ±17.63               |

<sup>a,b,c</sup> Means within rows with different superscript are significantly differ (P≤0.05). CO = Untreated Conocarpous, = EM1= Effective microorganisms, TR.= Trichoderma reesi fungi.

Table 7: Effect of dietary treatments on daily weight gain and mortality rate of litters.

| Items                 | Control diet       | CO                 |                    | CO +EM <sub>1</sub> |                    | CO +TR              |                     |
|-----------------------|--------------------|--------------------|--------------------|---------------------|--------------------|---------------------|---------------------|
|                       |                    | 15%                | 30%                | 15%                 | 30%                | 15%                 | 30%                 |
| Daily weight gain (g) |                    |                    |                    |                     |                    |                     |                     |
| Birth - 21 days       | 84.01 <sup>b</sup> | 76.51 <sup>c</sup> | 75.08 <sup>c</sup> | 98.07 <sup>a</sup>  | 84.95 <sup>b</sup> | 106.53 <sup>a</sup> | 99.46 <sup>a</sup>  |
|                       | ±3.88              | ±6.74              | ±4.65              | ±8.63               | ±5.74              | ±8.41               | ±7.11               |
| 21- 28 days           | 66.92 <sup>c</sup> | 57.88 <sup>c</sup> | 49.49 <sup>c</sup> | 110.65 <sup>a</sup> | 84.82 <sup>b</sup> | 125.32 <sup>a</sup> | 116.18 <sup>a</sup> |
|                       | ±9.25              | ±7.67              | ±4.89              | ±5.41               | ±7.23              | ±9.69               | ±10.23              |
| Birth - 28 days       | 79.74 <sup>b</sup> | 71.85 <sup>c</sup> | 68.68 <sup>c</sup> | 101.21 <sup>a</sup> | 84.92 <sup>b</sup> | 111.22 <sup>a</sup> | 103.64 <sup>a</sup> |
|                       | ±6.37              | ±7.11              | ±8.49              | ±5.78               | ±9.53              | ±10.87              | ±8.63               |
| Mortality rate (%)    |                    |                    |                    |                     |                    |                     |                     |
| Birth – 21 day        | 15.94 <sup>b</sup> | 19.88 <sup>a</sup> | 19.37 <sup>a</sup> | 15.11 <sup>b</sup>  | 16.58 <sup>b</sup> | 11.08 <sup>c</sup>  | 14.65 <sup>b</sup>  |
|                       | ±3.14              | ±2.36              | ±1.97              | ±2.01               | ±1.78              | ±2.41               | ±1.98               |
| Birth - Weaning       | 20.42 <sup>b</sup> | 25.83 <sup>a</sup> | 25.34 <sup>a</sup> | 17.90 <sup>c</sup>  | 20.11 <sup>b</sup> | 17.10 <sup>c</sup>  | 16.57 <sup>c</sup>  |
|                       | ±2.36              | ±3.14              | ±2.74              | ±1.97               | ±2.63              | ±3.11               | ±2.39               |

<sup>a,b,c</sup> Means within the same row with different superscript are significantly differ (P≤0.05).  
CO = Untreated Conocarpous , EM1= Effective microorganisms, TR.= Trichoderma reesi fungi.

Table 8: Digestion coefficients of nutrients and nutritive values as affected by dietary treatments.

| Items            | Control            | CO                  |                     | CO +EM <sub>1</sub> |                    | CO +TR             |                    |
|------------------|--------------------|---------------------|---------------------|---------------------|--------------------|--------------------|--------------------|
|                  | diet               | 15%                 | 30%                 | 15%                 | 30%                | 15%                | 30%                |
| DM               | 71.35              | 70.29               | 72.62               | 73.62               | 71.62              | 73.81              | 73.62              |
|                  | ±0.32              | ±0.18               | ±0.10               | ±0.38               | ±0.68              | ±0.56              | ±0.43              |
| OM               | 73.56              | 74.71               | 72.63               | 73.30               | 72.05              | 72.71              | 72.69              |
|                  | ±0.44              | ±0.83               | ±0.57               | ±0.62               | ±0.63              | ±0.90              | ±0.73              |
| CP               | 77.73              | 78.82               | 77.89               | 78.59               | 79.21              | 79.56              | 79.38              |
|                  | ±0.61              | ±0.72               | ±0.83               | ±0.50               | ±0.61              | ±0.78              | ±0.76              |
| CF               | 45.93              | 47.56               | 47.92               | 48.01               | 48.32              | 48.61              | 48.47              |
|                  | ±0.58              | ±0.83               | ±0.78               | ±0.31               | ±0.68              | ±0.75              | ±0.92              |
| EE               | 80.53              | 81.77               | 82.80               | 82.55               | 82.73              | 82.82              | 82.94              |
|                  | ±0.65              | ±0.72               | ±0.79               | ±0.58               | ±0.49              | ±0.76              | ±0.81              |
|                  | 78.23              | 78.44               | 78.56               | 79.87               | 79.51              | 79.22              | 79.76              |
|                  | ±0.77              | ±0.83               | ±0.68               | ±0.74               | ±0.78              | ±0.64              | ±0.89              |
| NFE              | 68.42 <sup>b</sup> | 70.74 <sup>ab</sup> | 71.81 <sup>ab</sup> | 72.53 <sup>ab</sup> | 72.95 <sup>a</sup> | 73.01 <sup>a</sup> | 73.51 <sup>a</sup> |
|                  | ±0.33              | ±0.28               | ±0.14               | ±0.24               | ±0.38              | ±0.43              | ±0.17              |
| Nutritive values | 13.95              | 14.25               | 14.07               | 14.28               | 14.33              | 14.40              | 14.37              |
| TDN              | ±0.07              | ±0.05               | ±0.11               | ±0.10               | ±0.09              | ±0.13              | ±0.14              |
| DCP              |                    |                     |                     |                     |                    |                    |                    |

a,b, Means within the same row with different superscript are significantly differ (P≤0.05).  
Nutritive values calculated according to Cheeke *et al.* (1982).  
CO = Untreated Conocarpous , EM1= Effective microorganisms , TR.= Trichoderma reesi fungi.

Table 9: Economical study as affected by different dietary treatments.

| Items                                 | Control diet | CO    |       | CO +EM <sub>1</sub> |       | CO +TR |        |
|---------------------------------------|--------------|-------|-------|---------------------|-------|--------|--------|
|                                       |              | 15%   | 30%   | 15%                 | 30%   | 15%    | 30%    |
| Total feed intake (kg) <sup>(1)</sup> | 16.13        | 15.48 | 15.15 | 17.79               | 17.13 | 18.55  | 17.94  |
| Price diet/kg L.E                     | 4.30         | 4.24  | 4.16  | 4.24                | 4.16  | 4.23   | 4.20   |
| Total feed cost (L.E.)                | 69.38        | 65.65 | 63.00 | 75.44               | 71.25 | 78.46  | 75.34  |
| Weaning rabbit produced (kg/ doe      | 2.67         | 2.33  | 2.26  | 3.56                | 2.90  | 3.75   | 3.68   |
| Selling price (L.E.) <sup>(2)</sup>   | 88.11        | 76.89 | 74.58 | 117.48              | 95.70 | 123.75 | 121.44 |
| Net revenue (L.E.) <sup>(3)</sup>     | 18.73        | 11.24 | 11.58 | 42.04               | 24.45 | 45.29  | 46.10  |
| Economic efficiency <sup>(4)</sup>    | 0.27         | 0.17  | 0.18  | 0.56                | 0.34  | 0.58   | 0.61   |

1)Total feed intake= (Pregnant does daily feed intake X 30) + (Lactating does daily feed intake X 30)

(2) Price of kg live body weight was 33 L.E. (3) Net revenue= Selling price – total feed cost.

(4) Economic efficiency = Net revenue/ total feed cost.

CO = Untreated Conocarpous , EM1= Effective microorganisms , TR.= Trichoderma reesi fungi.