ภาคผนวก

(APPENDICES)

ตารางที่ 1 น้ำหนักเริ่มต้นการทดลอง (กก.)

TREATMENT 1 131.00 134.00 137.00 133.00

(MEAN = 133.75 , SD = 2.50)

TREATMENT 2 134.00 133.00 135.00 132.00

(MEAN = 133.50 , SD = 1.29)

TREATMENT 3 138.00 135.00 130.00 134.00

(MEAN = 134.25 , SD = 3.30)

TREATMENT 4 135.00 132.00 134.00 136.00

(MEAN = 134.25 , SD = 1.71)

TREATMENT 5 132.00 137.00 133.00 135.00

(MEAN = 134.25 , SD = 2.22)

========== ANALYSIS OF VARIANCE ==========

SOV	df	SS	MS	F
TREATMENT	4	2.0000	0.5000	0.0938
ERROR	15	80.0000	5.3333	
TOTAL	19	82.0000		

COEFFICIENT OF VARIATION (C.V.) = 1.723434 %

F-CACULATION = 0.0938 p = 0.9801

Result : Non-significant (p>0.05)

ตารางที่ 2 น้ำหนักสิ้นสุดการทดลอง (กก.)

TREATMENT 1 220.50 227.00 228.00 223.50

(MEAN = 224.75 , SD = 3.43)

TREATMENT 2 238.50 239.00 240.00 239.50

(MEAN = 239.25 , SD = 0.65)

TREATMENT 3 254.00 254.00 250.50 253.00

(MEAN = 252.88 , SD = 1.65)

TREATMENT 4 238.50 237.00 240.00 244.00

(MEAN = 239.88 , SD = 3.01)

TREATMENT 5 250.50 257.50 251.00 252.50

(MEAN = 252.88 , SD = 3.20)

==========ANALYSIS OF VARIANCE ==========

SOV	df	SS	MS	F
TREATMENT	4	2184.6250	546.1563	79.9253
ERROR	15	102.5000	6.8333	
TOTAL	19	2287.1250		

COEFFICIENT OF VARIATION (C.V.) = 1.080527 %

F-CACULATION = 79.9253 p = 0.0000

Result : highly-significant (p<0.01)

*** PROGRAMME FOR DUNCAN'S NEW MULTIPLE RANGE TEST ALFA=0.05 ***

For 5% Level New Multiple-Range test and Error df = 15

The significant studentized ranges (SSR) between p = 2 - 5

p	2	3	4	5
SSR	3.01	3.16	3.25	3.31

T 1	T 2	T 4	T 3	T 5
224.75	239.25	239.88	252.88	252.88

252.88 - 224.75 = 28.13 > 4.33 * significant *

252.88 - 239.25 = 13.63 > 4.25 * significant *

252.88 - 239.88 = 13.00 > 4.13 * significant *

252.88 - 252.88 = 0.00 < 3.93 non-significant

252.88 - 224.75 = 28.13 > 4.25 * significant *

252.88 - 239.25 = 13.63 > 4.13 * significant *

252.88 - 239.88 = 13.00 > 3.93 * significant *

239.88 - 224.75 = 15.13 > 4.13 * significant *

239.88 - 239.25 = 0.63 < 3.93 non-significant

239.25 - 224.75 = 14.50 > 3.93 * significant *

ตารางที่ 3 น้ำหนักที่เพิ่มขึ้นตลอดการทดลอง (กก.)

TREATMENT 1 89.50 93.00 91.00 90.50

(MEAN = 91.00 , SD = 1.47)

TREATMENT 2 104.50 106.00 105.00 107.50

(MEAN = 105.75 , SD = 1.32)

TREATMENT 3 116.00 119.00 120.50 119.00

(MEAN = 118.63 , SD = 1.89)

TREATMENT 4 103.50 105.00 106.00 108.00

(MEAN = 105.63 , SD = 1.89)

TREATMENT 5 118.50 120.50 118.00 117.50

(MEAN = 118.63 , SD = 1.31)

==========ANALYSIS OF VARIANCE ==========

SOV	df	SS	MS	F
TREATMENT	4	2101.8440	525.4610	205.7270
ERROR	15	38.3125	2.5542	
TOTAL	19	2140.1560		

COEFFICIENT OF VARIATION (C.V.) = 1.480821 %

F-CACULATION = 205.7270 p = 0.0000

Result : highly-significant (p<0.01)

*** PROGRAMME FOR DUNCAN'S NEW MULTIPLE RANGE TEST ALFA=0.05 ***

For 5% Level New Multiple-Range test and Error df = 15

The significant studentized ranges (SSR) between p = 2 - 5

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p	2	3	4	5
SSR	3.01	3.16	3.25	3.31

T 1	T 4	T 2	T 3	T 5
91.00	105.63	105.75	118.63	118.63

118.63 - 91.00 = 27.63 > 2.64 * significant *

118.63 - 105.63 = 13.00 > 2.60 * significant *

118.63 - 105.75 = 12.88 > 2.53 * significant *

118.63 - 118.63 = 0.00 < 2.41 non-significant

118.63 - 91.00 = 27.63 > 2.60 * significant *

118.63 - 105.63 = 13.00 > 2.53 * significant *

118.63 - 105.75 = 12.88 > 2.41 * significant *

105.75 - 91.00 = 14.75 > 2.53 * significant *

105.75 - 105.63 = 0.13 < 2.41 non-significant

105.63 - 91.00 = 14.63 > 2.41 * significant *

ตารางที่ 4 น้ำหนักที่เพิ่มขึ้นเฉลี่ยต่อวัน (กก.)

TREATMENT 1 0.40 0.42 0.41 0.40

(MEAN = 0.41 , SD = 0.01)

TREATMENT 2 0.47 0.47 0.47 0.48

(MEAN = 0.47 , SD = 0.01)

TREATMENT 3 0.52 0.53 0.54 0.53

(MEAN = 0.53 , SD = 0.01)

TREATMENT 4 0.46 0.47 0.47 0.48

(MEAN = 0.47 , SD = 0.01)

TREATMENT 5 0.53 0.54 0.53 0.52

(MEAN = 0.53 , SD = 0.01)

========== ANALYSIS OF VARIANCE ==========

SOV	df	SS	MS	F
TREATMENT	4	0.0416	0.0104	164.0348
ERROR	15	0.0010	0.0001	
TOTAL	19	0.0425		

COEFFICIENT OF VARIATION (C.V.) = 1.651376 %

F-CACULATION = 164.0348 p = 0.0000

Result : highly-significant (p<0.01)

*** PROGRAMME FOR DUNCAN'S NEW MULTIPLE RANGE TEST ALFA=0.05 ***

For 5% Level New Multiple-Range test and Error df = 15

The significant studentized ranges (SSR) between p = 2 - 5

---

p	2	3	4	5
SSR	3.01	3.16	3.25	3.31

T 1	T 4	T 2	T 3	T 5
0.41	0.47	0.47	0.53	0.53

0.53 - 0.41 = 0.12 > 0.01 * significant *

0.53 - 0.47 = 0.06 > 0.01 * significant *

0.53 - 0.47 = 0.06 > 0.01 * significant *

0.53 - 0.53 = 0.00 < 0.01 non-significant

0.53 - 0.41 = 0.12 > 0.01 * significant *

0.53 - 0.47 = 0.06 > 0.01 * significant *

0.53 - 0.47 = 0.06 > 0.01 * significant *

0.47 - 0.41 = 0.07 > 0.01 * significant *

0.47 - 0.47 = 0.00 < 0.01 non-significant

0.47 - 0.41 = 0.06 > 0.01 * significant *

ตารางที่ 5 ส่วนสูงที่เพิ่มขึ้น (ซม.)

TREATMENT 1 48.50 49.00 52.00 51.50

(MEAN = 50.25 , SD = 1.76)

TREATMENT 2 53.50 54.00 55.50 52.00

(MEAN = 53.75 , SD = 1.44)

TREATMENT 3 61.50 62.00 64.50 63.00

(MEAN = 62.75 , SD = 1.32)

TREATMENT 4 52.50 54.50 54.00 53.00

(MEAN = 53.50 , SD = 0.91)

TREATMENT 5 64.00 63.50 60.50 62.00

(MEAN = 62.50 , SD = 1.58)

==========ANALYSIS OF VARIANCE ==========

SOV	df	SS	MS	F
TREATMENT	4	522.6992	130.6748	63.7438
ERROR	15	30.7500	2.0500	
TOTAL	19	553.4493		

COEFFICIENT OF VARIATION (C.V.) = 2.531887 %

F-CACULATION = 63.7438 p = 0.0000

Result : highly-significant (p<0.01)

*** PROGRAMME FOR DUNCAN'S NEW MULTIPLE RANGE TEST ALFA=0.05 ***

For 5% Level New Multiple-Range test and Error df = 15

The significant studentized ranges (SSR) between p = 2 - 5

---

p	2	3	4	5
SSR	3.01	3.16	3.25	3.31

T 1	T 4	T 2	T 5	T 3
50.25	53.50	53.75	62.50	62.75

62.75 - 50.25 = 12.50 > 2.37 * significant *

62.75 - 53.50 = 9.25 > 2.33 * significant *

62.75 - 53.75 = 9.00 > 2.26 * significant *

62.75 - 62.50 = 0.25 < 2.15 non-significant

62.50 - 50.25 = 12.25 > 2.33 * significant *

62.50 - 53.50 = 9.00 > 2.26 * significant *

62.50 - 53.75 = 8.75 > 2.15 * significant *

53.75 - 50.25 = 3.50 > 2.26 * significant *

53.75 - 53.50 = 0.25 < 2.15 non-significant

53.50 - 50.25 = 3.25 > 2.15 * significant *

ตารางที่ 6 ความยาวของลำตัวที่เพิ่มขึ้น (ซม.)

TREATMENT 1 50.50 52.00 51.00 53.50

(MEAN = 51.75 , SD = 1.32)

TREATMENT 2 56.50 57.00 54.00 55.00

(MEAN = 55.63 , SD = 1.38)

TREATMENT 3 63.00 66.00 64.50 63.50

(MEAN = 64.25 , SD = 1.32)

TREATMENT 4 58.00 53.00 56.00 54.00

(MEAN = 55.25 , SD = 2.22)

TREATMENT 5 64.50 63.00 65.50 62.00

(MEAN = 63.75 , SD = 1.55)

========== ANALYSIS OF VARIANCE ==========

SOV	df	SS	MS	F
TREATMENT	4	497.2500	124.3125	48.8298
ERROR	15	38.1875	2.5458	
TOTAL	19	535.4375		

COEFFICIENT OF VARIATION (C.V.) = 2.745061 %

F-CACULATION = 48.8298 p = 0.0000

Result : highly-significant (p<0.01)

*** PROGRAMME FOR DUNCAN'S NEW MULTIPLE RANGE TEST ALFA=0.05 ***

For 5% Level New Multiple-Range test and Error df = 15

The significant studentized ranges (SSR) between p = 2 - 5

---

p	2	3	4	5
SSR	3.01	3.16	3.25	3.31

T 1	T 4	T 2	T 5	T 3
51.75	55.25	55.63	63.75	64.25

64.25 - 51.75 = 12.50 > 2.64 * significant *

64.25 - 55.25 = 9.00 > 2.59 * significant *

64.25 - 55.63 = 8.63 > 2.52 * significant *

64.25 - 63.75 = 0.50 < 2.40 non-significant

63.75 - 51.75 = 12.00 > 2.59 * significant *

63.75 - 55.25 = 8.50 > 2.52 * significant *

63.75 - 55.63 = 8.13 > 2.40 * significant *

55.63 - 51.75 = 3.88 > 2.52 * significant *

55.63 - 55.25 = 0.38 < 2.40 non-significant

55.25 - 51.75 = 3.50 > 2.40 * significant *

ตารางที่ 7 ความยาวของเส้นรอบอกที่เพิ่มขึ้น (ซม.)

TREATMENT 1 51.00 54.00 53.50 52.50

(MEAN = 52.75 , SD = 1.32)

TREATMENT 2 56.00 53.00 55.50 54.50

(MEAN = 54.75 , SD = 1.32)

TREATMENT 3 64.00 65.00 63.50 64.50

(MEAN = 64.25 , SD = 0.65)

TREATMENT 4 53.50 55.00 54.50 56.00

(MEAN = 54.75 , SD = 1.04)

TREATMENT 5 63.50 64.00 66.00 65.50

(MEAN = 64.75 , SD = 1.19)

==========ANALYSIS OF VARIANCE ==========

SOV	df	SS	MS	F
TREATMENT	4	532.0000	133.0000	103.6364
ERROR	15	19.2500	1.2833	
TOTAL	19	551.2500		

COEFFICIENT OF VARIATION (C.V.) = 1.944795 %

F-CACULATION = 103.6364 p = 0.0000

Result : highly-significant (p<0.01)

*** PROGRAMME FOR DUNCAN'S NEW MULTIPLE RANGE TEST ALFA=0.05 ***

For 5% Level New Multiple-Range test and Error df = 15

The significant studentized ranges (SSR) between p = 2 - 5

---

p	2	3	4	5
SSR	3.01	3.16	3.25	3.31

T 1	T 2	T 4	T 3	T 5
52.75	54.75	54.75	64.25	64.75

64.75 - 52.75 = 12.00 > 1.87 * significant *

64.75 - 54.75 = 10.00 > 1.84 * significant *

64.75 - 54.75 = 10.00 > 1.79 * significant *

64.75 - 64.25 = 0.50 < 1.70 non-significant

64.25 - 52.75 = 11.50 > 1.84 * significant *

64.25 - 54.75 = 9.50 > 1.79 * significant *

64.25 - 54.75 = 9.50 > 1.70 * significant *

54.75 - 52.75 = 2.00 > 1.79 * significant *

54.75 - 54.75 = 0.00 < 1.70 non-significant

54.75 - 52.75 = 2.00 > 1.70 * significant *

ตารางที่ 8 ความยาวของเส้นรอบท้องที่เพิ่มขึ้น (ซม.)

TREATMENT 1 56.00 58.00 57.50 55.50

(MEAN = 56.75 , SD = 1.19)

TREATMENT 2 68.50 65.00 64.50 66.00

(MEAN = 66.00 , SD = 1.78)

TREATMENT 3 64.00 62.50 63.50 63.00

(MEAN = 63.25 , SD = 0.65)

TREATMENT 4 65.00 64.00 65.50 67.50

(MEAN = 65.50 , SD = 1.47)

TREATMENT 5 64.50 64.00 63.00 62.50

(MEAN = 63.50 , SD = 0.91)

========== ANALYSIS OF VARIANCE ==========

SOV	df	SS	MS	F
TREATMENT	4	218.5000	54.6250	34.1406
ERROR	15	24.0000	1.6000	
TOTAL	19	242.5000		

COEFFICIENT OF VARIATION (C.V.) = 2.007795 %

F-CACULATION = 34.1406 p = 0.0000

Result : highly-significant (p<0.01)

*** PROGRAMME FOR DUNCAN'S NEW MULTIPLE RANGE TEST ALFA=0.05 ***

For 5% Level New Multiple-Range test and Error df = 15

The significant studentized ranges (SSR) between p = 2 - 5

---

p	2	3	4	5
SSR	3.01	3.16	3.25	3.31

T 1	T 3	T 5	T 4	T 2
56.75	63.25	63.50	65.50	66.00

66.00 - 56.75 = 9.25 > 2.09 * significant *

66.00 - 63.25 = 2.75 > 2.06 * significant *

66.00 - 63.50 = 2.50 > 2.00 * significant *

66.00 - 65.50 = 0.50 < 1.90 non-significant

65.50 - 56.75 = 8.75 > 2.06 * significant *

65.50 - 63.25 = 2.25 > 2.00 * significant *

65.50 - 63.50 = 2.00 > 1.90 * significant *

63.50 - 56.75 = 6.75 > 2.00 * significant *

63.50 - 63.25 = 0.25 < 1.90 non-significant

63.25 - 56.75 = 6.50 > 1.90 * significant *

ตารางที่ 9 ปริมาณการกินอาหารข้นตลอดการทดลอง (กก.)

TREATMENT 1 387.52 394.24 412.16 394.24

(MEAN = 397.04 , SD = 10.57)

TREATMENT 2 421.12 412.16 414.40 414.40

(MEAN = 415.52 , SD = 3.88)

TREATMENT 3 434.56 443.52 416.64 432.32

(MEAN = 431.76 , SD = 11.18)

TREATMENT 4 421.12 412.16 414.40 416.64

(MEAN = 416.08 , SD = 3.83)

TREATMENT 5 432.32 427.84 430.08 436.80

(MEAN = 431.76 , SD = 3.82)

========== ANALYSIS OF VARIANCE ==========

SOV	df	SS	MS	F
TREATMENT	4	3308.0000	827.0000	14.7197
ERROR	15	842.7500	56.1833	
TOTAL	19	4150.7500		

COEFFICIENT OF VARIATION (C.V.) = 1.791344 %

F-CACULATION = 14.7197 p = 0.0001

Result : highly-significant (p<0.01)

*** PROGRAMME FOR DUNCAN'S NEW MULTIPLE RANGE TEST ALFA=0.05 ***

For 5% Level New Multiple-Range test and Error df = 15

The significant studentized ranges (SSR) between p = 2 - 5

---

p 2 3 4 5

SSR 3.01 3.16 3.25 3.31

T 1 T 2 T 4 T 3 T 5

397.04 415.52 416.08 431.76 431.76

431.76 - 397.04 = 34.72 > 12.41 * significant *

431.76 - 415.52 = 16.24 > 12.18 * significant *

431.76 - 416.08 = 15.68 > 11.84 * significant *

431.76 - 431.76 = 0.00 < 11.28 non-significant

431.76 - 397.04 = 34.72 > 12.18 * significant *

431.76 - 415.52 = 16.24 > 11.84 * significant *

431.76 - 416.08 = 15.68 > 11.28 * significant *

416.08 - 397.04 = 19.04 > 11.84 * significant *

416.08 - 415.52 = 0.56 < 11.28 non-significant

415.52 - 397.04 = 18.48 > 11.28 * significant *

ตารางที่ 10 ปริมาณการกินอาหารข้นต่อวัน (กก.)

TREATMENT 1 1.73 1.76 1.84 1.76

(MEAN = 1.77 , SD = 0.05)

TREATMENT 2 1.88 1.84 1.85 1.85

(MEAN = 1.86 , SD = 0.02)

TREATMENT 3 1.94 1.98 1.86 1.93

(MEAN = 1.93 , SD = 0.05)

TREATMENT 4 1.88 1.84 1.85 1.86

(MEAN = 1.86 , SD = 0.02)

TREATMENT 5 1.93 1.91 1.92 1.95

(MEAN = 1.93 , SD = 0.02)

==========ANALYSIS OF VARIANCE ==========

SOV	df	SS	MS	F
TREATMENT	4	0.0659	0.0165	14.7139
ERROR	15	0.0168	0.0011	
TOTAL	19	0.0827		

COEFFICIENT OF VARIATION (C.V.) = 1.791559 %

F-CACULATION = 14.7139 p = 0.0001

Result : highly-significant (p<0.01)

*** PROGRAMME FOR DUNCAN'S NEW MULTIPLE RANGE TEST ALFA=0.05 ***

For 5% Level New Multiple-Range test and Error df = 15

The significant studentized ranges (SSR) between p = 2 - 5

---

p 2 3 4 5

SSR 3.01 3.16 3.25 3.31

T 1 T 2 T 4 T 3 T 5

1.77 1.86 1.86 1.93 1.93

1.93 - 1.77 = 0.15 > 0.06 * significant *

1.93 - 1.86 = 0.07 > 0.05 * significant *

1.93 - 1.86 = 0.07 > 0.05 * significant *

1.93 - 1.93 = 0.00 < 0.05 non-significant

1.93 - 1.77 = 0.15 > 0.05 * significant *

1.93 - 1.86 = 0.07 > 0.05 * significant *

1.93 - 1.86 = 0.07 > 0.05 * significant *

1.86 - 1.77 = 0.09 > 0.05 * significant *

1.86 - 1.86 = 0.00 < 0.05 non-significant

1.86 - 1.77 = 0.08 > 0.05 * significant *

ตารางที่ 11 ปริมาณการกินอาหารข้นต่อเปอร์เซ็นต์น้ำหนักตัว (กก.)

TREATMENT 1 0.99 0.98 1.01 0.99

(MEAN = 0.99 , SD = 0.01)

TREATMENT 2 1.01 0.99 0.99 1.00

(MEAN = 1.00 , SD = 0.01)

TREATMENT 3 0.99 1.02 0.98 1.00

(MEAN = 1.00 , SD = 0.02)

TREATMENT 4 1.01 1.00 0.99 0.98

(MEAN = 1.00 , SD = 0.01)

TREATMENT 5 1.01 0.97 1.00 1.01

(MEAN = 1.00 , SD = 0.02)

========== ANALYSIS OF VARIANCE ==========

SOV	df	SS	MS	F
TREATMENT	4	0.0001	0.0000	0.0984
ERROR	15	0.0032	0.0002	
TOTAL	19	0.0033		

COEFFICIENT OF VARIATION (C.V.) = 1.466144 %

F-CACULATION = 0.0984 p = 0.9785

Result : Non-significant (p>0.05)

ตารางที่ 12 ปริมาณการกินอาหารหยาบ (หญ้าขน) ตลอดการทดลอง (กก.)

TREATMENT 1 777.28 819.84 840.00 792.96

(MEAN = 807.52 , SD = 27.89)

TREATMENT 2 725.76 748.16 739.20 757.12

(MEAN = 742.56 , SD = 13.38)

TREATMENT 3 801.92 804.16 795.20 797.44

(MEAN = 799.68 , SD = 4.09)

TREATMENT 4 734.72 745.92 732.48 766.08

(MEAN = 744.80 , SD = 15.36)

TREATMENT 5 786.24 824.32 795.20 806.40

(MEAN = 803.04 , SD = 16.41)

==========ANALYSIS OF VARIANCE ==========

SOV	df	SS	MS	F
TREATMENT	4	17258.0000	4314.5000	14.5892
ERROR	15	4436.0000	295.7333	
TOTAL	19	21694.0000		

COEFFICIENT OF VARIATION (C.V.) = 2.206088 %

F-CACULATION = 14.5892 p = 0.0001

Result : highly-significant (p<0.01)

*** PROGRAMME FOR DUNCAN'S NEW MULTIPLE RANGE TEST ALFA=0.05 ***

For 5% Level New Multiple-Range test and Error df = 15

The significant studentized ranges (SSR) between p = 2 - 5

---

p	2	3	4	5
SSR	3.01	3.16	3.25	3.31

T 2	T 4	T 3	T 5	T 1
742.56	744.80	799.68	803.04	807.52

807.52 - 742.56 = 64.96 > 28.46 * significant *

807.52 - 744.80 = 62.72 > 27.94 * significant *

807.52 - 799.68 = 7.84 < 27.17 non-significant

807.52 - 803.04 = 4.48 < 25.88 non-significant

803.04 - 742.56 = 60.48 > 27.94 * significant *

803.04 - 744.80 = 58.24 > 27.17 * significant *

803.04 - 799.68 = 3.36 < 25.88 non-significant

799.68 - 742.56 = 57.12 > 27.17 * significant *

799.68 - 744.80 = 54.88 > 25.88 * significant *

744.80 - 742.56 = 2.24 < 25.88 non-significant

ตารางที่ 13 ปริมาณการกินอาหารหยาบ (หญ้าขน) ต่อวัน (กก.)

TREATMENT 1 3.47 3.66 3.75 3.54

(MEAN = 3.61 , SD = 0.12)

TREATMENT 2 3.24 3.34 3.30 3.38

(MEAN = 3.32 , SD = 0.06)

TREATMENT 3 3.58 3.59 3.55 3.56

(MEAN = 3.57 , SD = 0.02)

TREATMENT 4 3.28 3.33 3.27 3.42

(MEAN = 3.32 , SD = 0.07)

TREATMENT 5 3.51 3.68 3.55 3.60

(MEAN = 3.59 , SD = 0.07)

==========ANALYSIS OF VARIANCE ==========

SOV	df	SS	MS	F
TREATMENT	4	0.3440	0.0860	14.5973
ERROR	15	0.0884	0.0059	
TOTAL	19	0.4324		

COEFFICIENT OF VARIATION (C.V.) = 2.205716 %

F-CACULATION = 14.5973 p = 0.0001

Result : highly-significant (p<0.01)

*** PROGRAMME FOR DUNCAN'S NEW MULTIPLE RANGE TEST ALFA=0.05 ***

For 5% Level New Multiple-Range test and Error df = 15

The significant studentized ranges (SSR) between p = 2 - 5

---

p 2 3 4 5

SSR 3.01 3.16 3.25 3.31

T 2 T 4 T 3 T 5 T 1

3.32 3.32 3.57 3.59 3.61

3.61 - 3.32 = 0.29 > 0.13 * significant *

3.61 - 3.32 = 0.28 > 0.12 * significant *

3.61 - 3.57 = 0.03 < 0.12 non-significant

3.61 - 3.59 = 0.02 < 0.12 non-significant

3.59 - 3.32 = 0.27 > 0.12 * significant *

3.59 - 3.32 = 0.26 > 0.12 * significant *

3.59 - 3.57 = 0.01 < 0.12 non-significant

3.57 - 3.32 = 0.26 > 0.12 * significant *

3.57 - 3.32 = 0.25 > 0.12 * significant *

3.32 - 3.32 = 0.01 < 0.12 non-significant

ตารางที่ 14 ปริมาณการกินอาหารหยาบ (หญ้าขน) ต่อเปอร์เซ็นต์น้ำหนักตัว

TREATMENT 1 1.98 2.03 2.06 1.99

(MEAN = 2.02 , SD = 0.04)

TREATMENT 2 1.74 1.80 1.76 1.82

(MEAN = 1.78 , SD = 0.04)

TREATMENT 3 1.83 1.85 1.87 1.84

(MEAN = 1.85 , SD = 0.02)

TREATMENT 4 1.76 1.81 1.75 1.80

(MEAN = 1.78 , SD = 0.03)

TREATMENT 5 1.84 1.87 1.85 1.86

(MEAN = 1.86 , SD = 0.01)

========== ANALYSIS OF VARIANCE ==========

SOV	df	SS	MS	F
TREATMENT	4	0.1476	0.0369	45.8362
ERROR	15	0.0121	0.0008	
TOTAL	19	0.1597		

COEFFICIENT OF VARIATION (C.V.) = 1.529252 %

F-CACULATION = 45.8362 p = 0.0000

Result : highly-significant (p<0.01)

*** PROGRAMME FOR DUNCAN'S NEW MULTIPLE RANGE TEST ALFA=0.05 ***

For 5% Level New Multiple-Range test and Error df = 15

The significant studentized ranges (SSR) between p = 2 - 5

---

p 2 3 4 5

SSR 3.01 3.16 3.25 3.31

T 4 T 2 T 3 T 5 T 1

1.78 1.78 1.85 1.86 2.02

2.02 - 1.78 = 0.24 > 0.05 * significant *

2.02 - 1.78 = 0.24 > 0.05 * significant *

2.02 - 1.85 = 0.17 > 0.04 * significant *

2.02 - 1.86 = 0.16 > 0.04 * significant *

1.86 - 1.78 = 0.08 > 0.05 * significant *

1.86 - 1.78 = 0.07 > 0.04 * significant *

1.86 - 1.85 = 0.01 < 0.04 non-significant

1.85 - 1.78 = 0.07 > 0.04 * significant *

1.85 - 1.78 = 0.07 > 0.04 * significant *

1.78 - 1.78 = 0.00 < 0.04 non-significant

ตารางที่ 15 ปริมารการกินพืชตระกูลถั่วเสริมโปรตีนตลอดการทดลอง (กก.)

TREATMENT 1 0.00 0.00 0.00 0.00

(MEAN = 0.00 , SD = 0.00)

TREATMENT 2 409.92 416.64 423.36 416.64

(MEAN = 416.64 , SD = 5.48)

TREATMENT 3 448.00 439.04 416.64 434.56

(MEAN = 434.56 , SD = 13.19)

TREATMENT 4 409.92 409.92 427.84 421.12

(MEAN = 417.20 , SD = 8.84)

TREATMENT 5 432.32 436.80 430.08 439.04

(MEAN = 434.56 , SD = 4.09)

========== ANALYSIS OF VARIANCE ==========

SOV	df	SS	MS	F
TREATMENT	4	581260.0000	145315.0000	2431.3720
ERROR	15	896.5000	59.7667	
TOTAL	19	582156.5000		

COEFFICIENT OF VARIATION (C.V.) = 2.269839 %

F-CACULATION = 2431.3720 p = 0.0000

Result : highly-significant (p<0.01)

*** PROGRAMME FOR DUNCAN'S NEW MULTIPLE RANGE TEST ALFA=0.05 ***

For 5% Level New Multiple-Range test and Error df = 15

The significant studentized ranges (SSR) between p = 2 - 5

---

p 2 3 4 5

SSR 3.01 3.16 3.25 3.31

T 1 T 2 T 4 T 3 T 5

0.00 416.64 417.20 434.56 434.56

434.56 - 0.00 = 434.56 > 12.79 * significant *

434.56 - 416.64 = 17.92 > 12.56 * significant *

434.56 - 417.20 = 17.36 > 12.21 * significant *

434.56 - 434.56 = 0.00 < 11.63 non-significant

434.56 - 0.00 = 434.56 > 12.56 * significant *

434.56 - 416.64 = 17.92 > 12.21 * significant *

434.56 - 417.20 = 17.36 > 11.63 * significant *

417.20 - 0.00 = 417.20 > 12.21 * significant *

417.20 - 416.64 = 0.56 < 11.63 non-significant

416.64 - 0.00 = 416.64 > 11.63 * significant *

ตารางที่ 16 ปริมาณการกินพืชตระกูลถั่วเสริมโปรตีนต่อวัน (กก.)

TREATMENT 1 0.00 0.00 0.00 0.00

(MEAN = 0.00 , SD = 0.00)

TREATMENT 2 1.83 1.86 1.89 1.86

(MEAN = 1.86 , SD = 0.02)

TREATMENT 3 2.00 1.96 1.86 1.94

(MEAN = 1.94 , SD = 0.06)

TREATMENT 4 1.83 1.83 1.91 1.88

(MEAN = 1.86 , SD = 0.04)

TREATMENT 5 1.93 1.95 1.92 1.96

(MEAN = 1.94 , SD = 0.02)

========== ANALYSIS OF VARIANCE ==========

SOV	df	SS	MS	F
TREATMENT	4	11.5844	2.8961	2430.2070
ERROR	15	0.0179	0.0012	
TOTAL	19	11.6023		

COEFFICIENT OF VARIATION (C.V.) = 2.270383 %

F-CACULATION = 2430.2070 p = 0.0000

Result : highly-significant (p<0.01)

*** PROGRAMME FOR DUNCAN'S NEW MULTIPLE RANGE TEST ALFA=0.05 ***

For 5% Level New Multiple-Range test and Error df = 15

The significant studentized ranges (SSR) between p = 2 - 5

---

p	2	3	4	5
SSR	3.01	3.16	3.25	3.31

T 1	T 2	T 4	T 3	T 5
0.00	1.86	1.86	1.94	1.94

1.94 -	0.00 =	1.94 >	0.06	*	significant *
1.94 -	1.86 =	0.08 >	0.06	*	significant *
1.94 -	1.86 =	0.08 >	0.05	*	significant *
1.94 -	1.94 =	0.00 <	0.05		non-significant
1.94 -	0.00 =	1.94 >	0.06	*	significant *
1.94 -	1.86 =	0.08 >	0.05	*	significant *
1.94 -	1.86 =	0.08 >	0.05	*	significant *
1.86 -	0.00 =	1.86 >	0.05	*	significant *
1.86 -	1.86 =	0.00 <	0.05		non-significant
1.86 -	0.00 =	1.86 >	0.05	*	significant *

ตารางที่ 17 ปริมาณการกินพืชตระกูลถั่วเสริมโปรตีนต่อเปอร์เซ็นต์น้ำหนักตัว

TREATMENT 1 0.00 0.00 0.00 0.00

(MEAN = 0.00 , SD = 0.00)

TREATMENT 2 0.98 1.00 1.01 1.00

(MEAN = 1.00 , SD = 0.01)

TREATMENT 3 1.02 1.01 0.98 1.00

(MEAN = 1.00 , SD = 0.02)

TREATMENT 4 0.98 0.99 1.02 0.99

(MEAN = 1.00 , SD = 0.02)

TREATMEN 5 1.01 0.99 1.00 1.01

(MEAN = 1.00 , SD = 0.01)

==========ANALYSIS OF VARIANCE ==========

SOV	df	SS	MS	F
TREATMENT	4	3.1962	0.7990	4753.3510
ERROR	15	0.0025	0.0002	
TOTAL	19	3.1987		

COEFFICIENT OF VARIATION (C.V.) = 1.621686 %

F-CACULATION = 4753.3510 p = 0.0000

Result : highly-significant (p<0.01)

*** PROGRAMME FOR DUNCAN'S NEW MULTIPLE RANGE TEST ALFA=0.05 ***

For 5% Level New Multiple-Range test and Error df = 15

The significant studentized ranges (SSR) between p = 2 - 5

---

p	2	3	4	5
SSR	3.01	3.16	3.25	3.31

T 1	T 4	T 2	T 3	T 5
0.00	1.00	1.00	1.00	1.00

1.00 - 0.00 = 1.00 > 0.02 * significant *
1.00 - 1.00 = 0.01 < 0.02 non-significant
1.00 - 1.00 = 0.01 < 0.02 non-significant
1.00 - 1.00 = 0.00 < 0.02 non-significant
1.00 - 0.00 = 1.00 > 0.02 * significant *
1.00 - 1.00 = 0.01 < 0.02 non-significant
1.00 - 1.00 = 0.01 < 0.02 non-significant
1.00 - 0.00 = 1.00 > 0.02 * significant *
1.00 - 1.00 = 0.00 < 0.02 non-significant
1.00 - 0.00 = 1.00 > 0.02 * significant *

ตารางที่ 18 ปริมาณการกินอาหารทั้งหมดตลอดการทดลอง (กก.)

TREATMENT 1 1164.80 1214.08 1252.16 1187.20

(MEAN = 1204.56 , SD = 37.59)

TREATMENT 2 1556.80 1576.96 1576.96 1588.16

(MEAN = 1574.72 , SD = 13.06)

TREATMENT 3 1684.48 1686.72 1628.48 1664.32

(MEAN = 1666.00 , SD = 26.98)

TREATMENT 4 1565.76 1568.00 1574.72 1603.84

(MEAN = 1578.08 , SD = 17.60)

TREATMENT 5 1650.88 1688.96 1655.36 1682.24

(MEAN = 1669.36 , SD = 19.05)

========== ANALYSIS OF VARIANCE ==========

SOV	df	SS	MS	F
TREATMENT	4	591092.0000	147773.0000	247.7196
ERROR	15	8948.0000	596.5333	
TOTAL	19	600040.0000		

COEFFICIENT OF VARIATION (C.V.) = 1.587477 %

F-CACULATION = 247.7196 p = 0.0000

Result : highly-significant (p<0.01)

*** PROGRAMME FOR DUNCAN'S NEW MULTIPLE RANGE TEST ALFA=0.05 ***

For 5% Level New Multiple-Range test and Error df = 15

The significant studentized ranges (SSR) between p = 2 - 5

---

p	2	3	4	5
SSR	3.01	3.16	3.25	3.31

T 1	T 2	T 4	T 3	T 5
1204.56	1574.72	1578.08	1666.00	1669.36

1669.36 -1204.56 = 464.80 > 40.42 * significant *

1669.36 -1574.72 = 94.64 > 39.69 * significant *

1669.36 -1578.08 = 91.28 > 38.59 * significant *

1669.36 -1666.00 = 3.36 < 36.76 non-significant

1666.00 -1204.56 = 461.44 > 39.69 * significant *

1666.00 -1574.72 = 91.28 > 38.59 * significant *

1666.00 -1578.08 = 87.92 > 36.76 * significant *

1578.08 -1204.56 = 373.52 > 38.59 * significant *

1578.08 -1574.72 = 3.36 < 36.76 non-significant

1574.72 -1204.56 = 370.16 > 36.76 * significant *

ตารางที่ 19 ปริมาณการกินอาหารทั้งหมดต่อวัน (กก.)

TREATMENT 1 5.20 5.42 5.59 5.30

(MEAN = 5.38 , SD = 0.17)

TREATMENT 2 6.95 7.04 7.04 7.09

(MEAN = 7.03 , SD = 0.06)

TREATMENT 3 7.52 7.53 7.27 7.43

(MEAN = 7.44 , SD = 0.12)

TREATMENT 4 6.99 7.00 7.03 7.16

(MEAN = 7.05 , SD = 0.08)

TREATMENT 5 7.37 7.54 7.39 7.51

(MEAN = 7.45 , SD = 0.09)

========== ANALYSIS OF VARIANCE ==========

SOV	df	SS	MS	F
TREATMENT	4	11.7806	2.9451	247.5372
ERROR	15	0.1785	0.0119	
TOTAL	19	11.9590		

COEFFICIENT OF VARIATION (C.V.) = 1.588076 %

F-CACULATION = 247.5372 p = 0.0000

Result : highly-significant (p<0.01)

*** PROGRAMME FOR DUNCAN'S NEW MULTIPLE RANGE TEST ALFA=0.05 ***

For 5% Level New Multiple-Range test and Error df = 15

The significant studentized ranges (SSR) between p = 2 - 5

---

p 2 3 4 5

SSR 3.01 3.16 3.25 3.31

T 1 T 2 T 4 T 3 T 5

5.38 7.03 7.05 7.44 7.45

7.45 - 5.38 = 2.08 > 0.18 * significant *

7.45 - 7.03 = 0.42 > 0.18 * significant *

7.45 - 7.05 = 0.41 > 0.17 * significant *

7.45 - 7.44 = 0.01 < 0.16 non-significant

7.44 - 5.38 = 2.06 > 0.18 * significant *

7.44 - 7.03 = 0.41 > 0.17 * significant *

7.44 - 7.05 = 0.39 > 0.16 * significant *

7.05 - 5.38 = 1.67 > 0.17 * significant *

7.05 - 7.03 = 0.02 < 0.16 non-significant

7.03 - 5.38 = 1.65 > 0.16 * significant *

ตารางที่ 20 ปริมาณการกินอาหารทั้งหมดต่อเปอร์เซ็นต์น้ำหนักตัว

TREATMENT 1 2.97 3.01 3.07 2.98

(MEAN = 3.01 , SD = 0.04)

TREATMENT 2 3.73 3.79 3.76 3.82

(MEAN = 3.77 , SD = 0.04)

TREATMENT 3 3.84 3.88 3.83 3.84

(MEAN = 3.85 , SD = 0.02)

TREATMENT 4 3.75 3.80 3.76 3.77

(MEAN = 3.77 , SD = 0.02)

TREATMENT 5 3.86 3.83 3.85 3.88

(MEAN = 3.85 , SD = 0.02)

========== ANALYSIS OF VARIANCE ==========

SOV	df	SS	MS	F
TREATMENT	4	2.0954	0.5239	531.9964
ERROR	15	0.0148	0.0010	
TOTAL	19	2.1102		

COEFFICIENT OF VARIATION (C.V.) = .8594889 %

F-CACULATION = 531.9964 p = 0.0000

Result : highly-significant (p<0.01)

*** PROGRAMME FOR DUNCAN'S NEW MULTIPLE RANGE TEST ALFA=0.05 ***

For 5% Level New Multiple-Range test and Error df = 15

The significant studentized ranges (SSR) between p = 2 - 5

---

p 2 3 4 5

SSR 3.01 3.16 3.25 3.31

T 1 T 4 T 2 T 3 T 5

3.01 3.77 3.77 3.85 3.85

3.85 - 3.01 = 0.85 > 0.05 * significant *

3.85 - 3.77 = 0.08 > 0.05 * significant *

3.85 - 3.77 = 0.08 > 0.05 * significant *

3.85 - 3.85 = 0.01 < 0.05 non-significant

3.85 - 3.01 = 0.84 > 0.05 * significant *

3.85 - 3.77 = 0.08 > 0.05 * significant *

3.85 - 3.77 = 0.07 > 0.05 * significant *

3.77 - 3.01 = 0.77 > 0.05 * significant *

3.77 - 3.77 = 0.00 < 0.05 non-significant

3.77 - 3.01 = 0.76 > 0.05 * significant *

ตารางที่ 21 ค่าอาหารขั้นตลอดการทดลอง (บาท)

TREATMENT 1 3972.00 4040.96 4224.64 4040.96

(MEAN = 4069.64 , SD = 108.33)

TREATMENT 2 4316.48 4224.64 4247.60 4247.60

(MEAN = 4259.08 , SD = 39.73)

TREATMENT 3 4454.24 4546.08 4270.56 4431.28

(MEAN = 4425.54 , SD = 114.61)

TREATMENT 4 4316.48 4224.64 4247.60 4270.56

(MEAN = 4264.82 , SD = 39.19)

TREATMENT 5 4431.28 4385.36 4408.32 4477.20

(MEAN = 4425.54 , SD = 39.19)

========== ANALYSIS OF VARIANCE ==========

SOV	df	SS	MS	F
TREATMENT	4	347520.0000	86880.0000	14.7075
ERROR	15	88608.0000	5907.2000	
TOTAL	19	436128.0000		

COEFFICIENT OF VARIATION (C.V.) = 1.792019 %

F-CACULATION = 14.7075 p = 0.0001

Result : highly-significant ($p<0.01$)

*** PROGRAMME FOR DUNCAN'S NEW MULTIPLE RANGE TEST ALFA=0.05 ***

For 5% Level New Multiple-Range test and Error df = 15

The significant studentized ranges (SSR) between p = 2 - 5

---

p	2	3	4	5
SSR	3.01	3.16	3.25	3.31

T 1	T 2	T 4	T 3	T 5
4069.64	4259.08	4264.82	4425.54	4425.54

4425.54 -4069.64 = 355.90 > 127.20 * significant *

4425.54 -4259.08 = 166.46 > 124.89 * significant *

4425.54 -4264.82 = 160.72 > 121.44 * significant *

4425.54 -4425.54 = 0.00 < 115.67 non-significant

4425.54 -4069.64 = 355.90 > 124.89 * significant *

4425.54 -4259.08 = 166.46 > 121.44 * significant *

4425.54 -4264.82 = 160.72 > 115.67 * significant *

4264.82 -4069.64 = 195.18 > 121.44 * significant *

4264.82 -4259.08 = 5.74 < 115.67 non-significant

4259.08 -4069.64 = 189.44 > 115.67 * significant *

ตารางที่ 22 ค่าอาหารข้นต่อวัน (บาท)

TREATMENT 1 17.73 18.04 18.86 18.04

(MEAN = 18.17 , SD = 0.48)

TREATMENT 2 19.27 18.86 18.96 18.96

(MEAN = 19.01 , SD = 0.18)

TREATMENT 3 19.89 20.30 19.07 19.78

(MEAN = 19.76 , SD = 0.51)

TREATMENT 4 19.27 18.86 18.96 19.07

(MEAN = 19.04 , SD = 0.18)

TREATMENT 5 19.78 19.58 19.68 19.99

(MEAN = 19.76 , SD = 0.18)

========== ANALYSIS OF VARIANCE ==========

SOV	df	SS	MS	F
TREATMENT	4	6.9507	1.7377	14.7421
ERROR	15	1.7681	0.1179	
TOTAL	19	8.7188		

COEFFICIENT OF VARIATION (C.V.) = 1.793047 %

F-CACULATION = 14.7421 p = 0.0001

Result : highly-significant (p<0.01)

*** PROGRAMME FOR DUNCAN'S NEW MULTIPLE RANGE TEST ALFA=0.05 ***

For 5% Level New Multiple-Range test and Error df = 15

The significant studentized ranges (SSR) between p = 2 - 5

---

p	2	3	4	5
SSR	3.01	3.16	3.25	3.31

T 1	T 2	T 4	T 5	T 3
18.17	19.01	19.04	19.76	19.76

19.76 - 18.17 = 1.59 > 0.57 * significant *

19.76 - 19.01 = 0.75 > 0.56 * significant *

19.76 - 19.04 = 0.72 > 0.54 * significant *

19.76 - 19.76 = 0.00 < 0.52 non-significant

19.76 - 18.17 = 1.59 > 0.56 * significant *

19.76 - 19.01 = 0.74 > 0.54 * significant *

19.76 - 19.04 = 0.72 > 0.52 * significant *

19.04 - 18.17 = 0.87 > 0.54 * significant *

19.04 - 19.01 = 0.03 < 0.52 non-significant

19.01 - 18.17 = 0.85 > 0.52 * significant *

ตารางที่ 23 ค่าอาหารหยาบ (หญ้าขน) ตลอดการทดลอง (บาท)

TREATMENT 1 777.28 819.84 840.00 792.96

(MEAN = 807.52 , SD = 27.89)

TREATMENT 2 725.76 748.16 739.20 757.12

(MEAN = 742.56 , SD = 13.38)

TREATMENT 3 1002.40 1003.20 994.00 996.80

(MEAN = 999.10 , SD = 4.43)

TREATMENT 4 734.72 745.92 732.48 766.08

(MEAN = 744.80 , SD = 15.36)

TREATMENT 5 982.80 1030.40 994.00 1008.00

(MEAN = 1003.80 , SD = 20.51)

========== ANALYSIS OF VARIANCE ==========

SOV	df	SS	MS	F
TREATMENT	4	279371.0000	69842.7500	213.8043
ERROR	15	4900.0000	326.6667	
TOTAL	19	284271.0000		

COEFFICIENT OF VARIATION (C.V.) = 2.102704 %

F-CACULATION = 213.8043 p = 0.0000

Result : highly-significant (p<0.01)

*** PROGRAMME FOR DUNCAN'S NEW MULTIPLE RANGE TEST ALFA=0.05 ***

For 5% Level New Multiple-Range test and Error df = 15

The significant studentized ranges (SSR) between p = 2 - 5

---

p	2	3	4	5
SSR	3.01	3.16	3.25	3.31

T 2	T 4	T 1	T 3	T 5
742.56	744.80	807.52	999.10	1003.80

1003.80 - 742.56 = 261.24 > 29.91 * significant *

1003.80 - 744.80 = 259.00 > 29.37 * significant *

1003.80 - 807.52 = 196.28 > 28.56 * significant *

1003.80 - 999.10 = 4.70 < 27.20 non-significant

999.10 - 742.56 = 256.54 > 29.37 * significant *

999.10 - 744.80 = 254.30 > 28.56 * significant *

999.10 - 807.52 = 191.58 > 27.20 * significant *

807.52 - 742.56 = 64.96 > 28.56 * significant *

807.52 - 744.80 = 62.72 > 27.20 * significant *

744.80 - 742.56 = 2.24 < 27.20 non-significant

ตารางที่ 24 ค่าอาหารหยาบ (หญ้าขน) ต่อวัน (บาท)

TREATMENT 1 3.47 3.66 3.75 3.54

(MEAN = 3.61 , SD = 0.12)

TREATMENT 2 3.24 3.34 3.30 3.38

(MEAN = 3.32 , SD = 0.06)

TREATMENT 3 4.47 4.47 4.43 4.45

(MEAN = 4.46 , SD = 0.02)

TREATMENT 4 3.28 3.33 3.27 3.42

(MEAN = 3.32 , SD = 0.07)

TREATMENT 5 4.38 4.60 4.43 1.44

(MEAN = 3.71 , SD = 1.52)

========== ANALYSIS OF VARIANCE ==========

SOV	df	SS	MS	F
TREATMENT	4	3.4660	0.8665	1.8609
ERROR	15	6.9847	0.4656	
TOTAL	19	10.4507		

COEFFICIENT OF VARIATION (C.V.) = 18.5304 %

F-CACULATION = 1.8609 p = 0.1694

Result : Non-significant (p>0.05)

ตารางที่ 25 ค่าอาหารเสริมโปรตีนพืชตระกูลถั่วตลอดการทดลอง (บาท)

TREATMENT 1 0.00 0.00 0.00 0.00

(MEAN = 0.00 , SD = 0.00)

TREATMENT 2 4099.20 4166.40 4233.60 4166.40

(MEAN = 4166.40 , SD = 54.87)

TREATMENT 3 4480.00 4390.40 4166.40 4345.60

(MEAN = 4345.60 , SD = 131.88)

TREATMENT 4 4099.20 4099.20 4278.40 4211.20

(MEAN = 4172.00 , SD = 88.44)

TREATMENT 5 4323.20 4368.00 4300.80 4390.40

(MEAN = 4345.60 , SD = 40.86)

==========ANALYSIS OF VARIANCE ==========

SOV	df	SS	MS	F
TREATMENT	4	%58126000.0000	%14531500.0000	2430.1250
ERROR	15	89696.0000	5979.7340	
TOTAL	19	%58215700.0000		

COEFFICIENT OF VARIATION (C.V.) = 2.270422 %

F-CACULATION = 2430.1250 p = 0.0000

Result : highly-significant (p<0.01)

*** PROGRAMME FOR DUNCAN'S NEW MULTIPLE RANGE TEST ALFA=0.05 ***

For 5% Level New Multiple-Range test and Error df = 15

The significant studentized ranges (SSR) between p = 2 - 5

---

p	2	3	4	5
SSR	3.01	3.16	3.25	3.31

T 1	T 2	T 4	T 3	T 5
0.00	4166.40	4172.00	4345.60	4345.60

4345.60 - 0.00 =4345.60 > 127.98 * significant *

4345.60 -4166.40 = 179.20 > 125.66 * significant *

4345.60 -4172.00 = 173.60 > 122.18 * significant *

4345.60 -4345.60 = 0.00 < 116.38 non-significant

4345.60 - 0.00 =4345.60 > 125.66 * significant *

4345.60 -4166.40 = 179.20 > 122.18 * significant *

4345.60 -4172.00 = 173.60 > 116.38 * significant *

4172.00 - 0.00 =4172.00 > 122.18 * significant *

4172.00 -4166.40 = 5.60 < 116.38 non-significant

4166.40 - 0.00 =4166.40 > 116.38 * significant *

ตารางที่ 26 ค่าอาหารเสริมโปรตีนพืชตระกูลถั่วต่อวัน (บาท)

TREATMENT 1 0.00 0.00 0.00 0.00

(MEAN = 0.00 , SD = 0.00)

TREATMENT 2 18.30 18.60 18.90 18.60

(MEAN = 18.60 , SD = 0.24)

TREATMENT 3 20.00 19.60 18.60 19.40

(MEAN = 19.40 , SD = 0.59)

TREATMENT 4 18.30 18.30 19.10 18.80

(MEAN = 18.63 , SD = 0.39)

TREATMENT 5 19.30 19.50 19.20 19.60

(MEAN = 19.40 , SD = 0.18)

==========ANALYSIS OF VARIANCE ==========

SOV	df	SS	MS	F
TREATMENT	4	1158.4410	289.6104	2430.8280
ERROR	15	1.7871	0.1191	
TOTAL	19	1160.2290		

COEFFICIENT OF VARIATION (C.V.) = 2.270092 %

F-CACULATION = 2430.8280 p = 0.0000

Result : highly-significant (p<0.01)

*** PROGRAMME FOR DUNCAN'S NEW MULTIPLE RANGE TEST ALFA=0.05 ***

For 5% Level New Multiple-Range test and Error df = 15

The significant studentized ranges (SSR) between p = 2 - 5

---

p 2 3 4 5

SSR 3.01 3.16 3.25 3.31

T 1 T 2 T 4 T 3 T 5

0.00 18.60 18.63 19.40 19.40

19.40 - 0.00 = 19.40 > 0.57 * significant *

19.40 - 18.60 = 0.80 > 0.56 * significant *

19.40 - 18.63 = 0.77 > 0.55 * significant *

19.40 - 19.40 = 0.00 < 0.52 non-significant

19.40 - 0.00 = 19.40 > 0.56 * significant *

19.40 - 18.60 = 0.80 > 0.55 * significant *

19.40 - 18.63 = 0.77 > 0.52 * significant *

18.63 - 0.00 = 18.63 > 0.55 * significant *

18.63 - 18.60 = 0.02 < 0.52 non-significant

18.60 - 0.00 = 18.60 > 0.52 * significant *

ตารางที่ 27 ค่าอาหารทั้งหมดตลอดการทดลอง (บาท)

TREATMENT 1 4779.28 4860.80 5064.64 4833.92

(MEAN = 4884.66 , SD = 124.69)

TREATMENT 2 9141.44 9139.20 9220.40 9171.12

(MEAN = 9168.04 , SD = 37.81)

TREATMENT 3 9736.16 9740.64 9232.16 9574.32

(MEAN = 9570.82 , SD = 238.66)

TREATMENT 4 9150.40 9069.76 9258.48 9247.84

(MEAN = 9181.62 , SD = 89.08)

TREATMENT 5 9540.72 9577.68 9504.32 9674.00

(MEAN = 9574.18 , SD = 73.03)

========== ANALYSIS OF VARIANCE ==========

SOV	df	SS	MS	F
TREATMENT	4	%65116670.0000	%16279170.0000	932.8680
ERROR	15	261760.0000	17450.6700	
TOTAL	19	%65378430.0000		

COEFFICIENT OF VARIATION (C.V.) = 1.558555 %

F-CACULATION = 932.8680 p = 0.0000

Result : highly-significant (p<0.01)

*** PROGRAMME FOR DUNCAN'S NEW MULTIPLE RANGE TEST ALFA=0.05 ***

For 5% Level New Multiple-Range test and Error df = 15

The significant studentized ranges (SSR) between p = 2 - 5

p	2	3	4	5
SSR	3.01	3.16	3.25	3.31

T 1	T 2	T 4	T 3	T 5
4884.66	9168.04	9181.62	9570.82	9574.18

9574.18 -4884.66 =4689.52 > 218.63 * significant *

9574.18 -9168.04 = 406.14 > 214.66 * significant *

9574.18 -9181.62 = 392.56 > 208.72 * significant *

9574.18 -9570.82 = 3.36 < 198.81 non-significant

9570.82 -4884.66 =4686.16 > 214.66 * significant *

9570.82 -9168.04 = 402.78 > 208.72 * significant *

9570.82 -9181.62 = 389.20 > 198.81 * significant *

9181.62 -4884.66 =4296.96 > 208.72 * significant *

9181.62 -9168.04 = 13.58 < 198.81 non-significant

9168.04 -4884.66 =4283.38 > 198.81 * significant *

ตารางที่ 28 ค่าอาหารทั้งหมดต่อวัน (บาท)

TREATMENT 1 21.20 21.70 22.61 21.58

(MEAN = 21.77 , SD = 0.60)

TREATMENT 2 40.81 40.80 41.16 40.94

(MEAN = 40.93 , SD = 0.17)

TREATMENT 3 43.47 43.49 41.22 42.74

(MEAN = 42.73 , SD = 1.07)

TREATMENT 4 40.85 40.49 41.33 41.29

(MEAN = 40.99 , SD = 0.40)

TREATMENT 5 42.59 42.76 42.43 43.19

(MEAN = 42.74 , SD = 0.33)

========== ANALYSIS OF VARIANCE ==========

SOV	df	SS	MS	F
TREATMENT	4	1302.2660	325.5664	912.2036
ERROR	15	5.3535	0.3569	
TOTAL	19	1307.6190		

COEFFICIENT OF VARIATION (C.V.) = 1.579097 %

F-CACULATION = 912.2036 p = 0.0000

Result : highly-significant (p<0.01)

*** PROGRAMME FOR DUNCAN'S NEW MULTIPLE RANGE TEST ALFA=0.05 ***

For 5% Level New Multiple-Range test and Error df = 15

The significant studentized ranges (SSR) between p = 2 - 5

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p	2	3	4	5
SSR	3.01	3.16	3.25	3.31

T 1	T 2	T 4	T 3	T 5
21.77	40.93	40.99	42.73	42.74

42.74 - 21.77 = 20.97 > 0.99 * significant *

42.74 - 40.93 = 1.81 > 0.97 * significant *

42.74 - 40.99 = 1.75 > 0.94 * significant *

42.74 - 42.73 = 0.01 < 0.90 non-significant

42.73 - 21.77 = 20.96 > 0.97 * significant *

42.73 - 40.93 = 1.80 > 0.94 * significant *

42.73 - 40.99 = 1.74 > 0.90 * significant *

40.99 - 21.77 = 19.22 > 0.94 * significant *

40.99 - 40.93 = 0.06 < 0.90 non-significant

40.93 - 21.77 = 19.16 > 0.90 * significant *

ตารางที่ 29 อัตราการเปลี่ยนอาหารเป็นน้ำหนักตัว 1 กิโลกรัม

TREATMENT 1 13.01 13.05 13.76 13.12

(MEAN = 13.24 , SD = 0.35)

TREATMENT 2 14.90 14.88 15.02 14.77

(MEAN = 14.89 , SD = 0.10)

TREATMENT 3 14.52 14.17 13.51 13.99

(MEAN = 14.05 , SD = 0.42)

TREATMENT 4 15.13 14.93 14.86 14.85

(MEAN = 14.94 , SD = 0.13)

TREATMENT 5 13.93 14.02 14.03 14.32

(MEAN = 14.08 , SD = 0.17)

==========ANALYSIS OF VARIANCE ==========

SOV	df	SS	MS	F
TREATMENT	4	7.9739	1.9935	27.8868
ERROR	15	1.0723	0.0715	
TOTAL	19	9.0461		

COEFFICIENT OF VARIATION (C.V.) = 1.877765 %

F-CACULATION = 27.8868 p = 0.0000

Result : highly-significant (p<0.01)

*** PROGRAMME FOR DUNCAN'S NEW MULTIPLE RANGE TEST ALFA=0.05 ***

For 5% Level New Multiple-Range test and Error df = 15

The significant studentized ranges (SSR) between p = 2 - 5

---

p	2	3	4	5
SSR	3.01	3.16	3.25	3.31

T 1	T 3	T 5	T 2	T 4
13.24	14.05	14.08	14.89	14.94

14.94 - 13.24 = 1.71 > 0.44 * significant *

14.94 - 14.05 = 0.90 > 0.43 * significant *

14.94 - 14.08 = 0.87 > 0.42 * significant *

14.94 - 14.89 = 0.05 < 0.40 non-significant

14.89 - 13.24 = 1.66 > 0.43 * significant *

14.89 - 14.05 = 0.84 > 0.42 * significant *

14.89 - 14.08 = 0.82 > 0.40 * significant *

14.08 - 13.24 = 0.84 > 0.42 * significant *

14.08 - 14.05 = 0.03 < 0.40 non-significant

14.05 - 13.24 = 0.81 > 0.40 * significant *

ตารางที่ 30 ค่าอาหารเปลี่ยนเป็นน้ำหนักตัว 1 กิโลกรัม (บาท)

TREATMENT 1 53.06 52.27 55.66 53.41

(MEAN = 53.60 , SD = 1.45)

TREATMENT 2 87.48 86.22 87.81 85.31

(MEAN = 86.71 , SD = 1.15)

TREATMENT 3 83.93 81.85 76.62 80.46

(MEAN = 80.71 , SD = 3.08)

TREATMENT 4 88.41 86.38 87.34 85.63

(MEAN = 86.94 , SD = 1.20)

TREATMENT 5 80.51 79.48 80.55 82.33

(MEAN = 80.72 , SD = 1.18)

========== ANALYSIS OF VARIANCE ==========

SOV	df	SS	MS	F
TREATMENT	4	3061.8830	765.4707	242.5254
ERROR	15	47.3438	3.1563	
TOTAL	19	3109.2270		

COEFFICIENT OF VARIATION (C.V.) = 2.285422 %

F-CACULATION = 242.5254 p = 0.0000

Result : highly-significant (p<0.01)

*** PROGRAMME FOR DUNCAN'S NEW MULTIPLE RANGE TEST ALFA=0.05 ***

For 5% Level New Multiple-Range test and Error df = 15

The significant studentized ranges (SSR) between p = 2 - 5

---

p	2	3	4	5
SSR	3.01	3.16	3.25	3.31

T 1	T 3	T 5	T 2	T 4
53.60	80.71	80.72	86.71	86.94

86.94 - 53.60 = 33.34 > 2.94 * significant *

86.94 - 80.71 = 6.23 > 2.89 * significant *

86.94 - 80.72 = 6.22 > 2.81 * significant *

86.94 - 86.71 = 0.24 < 2.67 non-significant

86.71 - 53.60 = 33.11 > 2.89 * significant *

86.71 - 80.71 = 5.99 > 2.81 * significant *

86.71 - 80.72 = 5.99 > 2.67 * significant *

80.72 - 53.60 = 27.12 > 2.81 * significant *

80.72 - 80.71 = 0.00 < 2.67 non-significant

80.71 - 53.60 = 27.11 > 2.67 * significant *