

Table 1. Effect of irrigation interval, potassium and phosphorus fertilization levels on plant height (cm) and number of branches/peanut plant in the two growing seasons as well as their combined.

Main effects and interactions	Plant height (cm)			Number of branches/plant		
	1 st Season	2 nd Season	Combined	1 st Season	2 nd Season	Combined
Irrigation interval (I):						
8 days (I ₁)	39.34b	39.82c	39.58c	15.21c	15.53c	15.37c
6 days (I ₂)	42.74a	42.89b	42.81b	16.61b	17.06b	16.83b
4 days (I ₃)	43.79a	44.06a	43.93a	17.59a	17.70a	17.65a
F-test	**	**	**	**	**	**
Potassium fertilization levels (K):						
24 kg K ₂ O/fad (K ₁)	39.86c	40.42c	40.14c	15.47c	15.88c	15.67c
48 kg K ₂ O/fad (K ₂)	42.34b	42.72b	42.53b	16.48b	16.86b	16.67b
72 kg K ₂ O/fad (K ₃)	43.79a	43.85a	43.82a	17.57a	17.66a	17.61a
F-test	**	**	**	**	**	**
Phosphorus fertilization levels (P):						
15 kg P ₂ O ₅ /fad (P ₁)	41.43	41.37c	41.39b	15.81c	16.23c	16.02c
30 kg P ₂ O ₅ /fad (P ₂)	42.05	42.43b	42.24b	16.65b	16.76b	16.71b
45 kg P ₂ O ₅ /fad (P ₃)	42.50	43.80a	42.84a	17.06a	17.40a	17.23a
F-test	N.S	**	*	**	**	**
Interactions :						
I x K	N.S	N.S	N.S	N.S	N.S	N.S
I x P	N.S	N.S	N.S	N.S	N.S	N.S
K x P	N.S	N.S	N.S	N.S	N.S	N.S

A, b, c Means are bearing different letters in each column, differ significantly (P<0.05).

NS: Not significant, * P <0.05 , ** P <0.01.

Table 2. Effect of irrigation interval, potassium and phosphorus fertilization levels on number of pods and seed yield (gm) per peanut plant in the two growing seasons as well as their combined.

Main effects and interactions	Number of pods/plant			Seed yield (g/plant)		
	1 st Season	2 nd Season	Combined	1 st Season	2 nd Season	Combined
Irrigation interval (I):						
8 days (I ₁)	18.00c	21.04c	19.49c	42.53c	50.36c	46.37c
6 days (I ₂)	19.62b	22.44b	21.03b	47.09b	56.65b	51.84b
4 days (I ₃)	20.66a	23.32a	21.99a	56.57a	63.77a	60.11a
F-test	**	**	**	**	**	**
Potassium fertilization levels (K):						
24 kg K ₂ O/fad (K ₁)	17.52c	20.53c	19.03c	38.53c	44.73c	41.58c
48 kg K ₂ O/fad (K ₂)	19.79b	22.44b	21.27b	51.03b	60.31b	55.56b
72 kg K ₂ O/fad (K ₃)	21.08a	23.76a	22.42a	58.28a	68.24a	63.17a
F-test	**	**	**	**	**	**
Phosphorus fertilization levels (P):						
15 kg P ₂ O ₅ /fad (P ₁)	18.19c	21.66c	19.93c	44.57c	51.53c	48.00c
30 kg P ₂ O ₅ /fad (P ₂)	19.01b	22.17b	20.59b	48.35b	58.87b	53.58b
45 kg P ₂ O ₅ /fad (P ₃)	21.19a	23.20a	22.20a	53.90a	61.87a	57.82a
F-test	**	**	**	**	**	**
Interactions :						
I x K	N.S	**	N.S	N.S	N.S	N.S
I x P	N.S	*	N.S	N.S	N.S	N.S
K x P	N.S	N.S	N.S	N.S	N.S	N.S

A, b, c Means are bearing different letters in each column, differ significantly (P<0.05).

NS: Not significant, * P <0.05 , ** P <0.01

Table 3. Effect of irrigation interval, potassium and phosphorus fertilization levels on 100-pod weight (g) and shelling (%) of peanut in the two growing seasons as well as their combined.

Main effects and interactions	100-pod weight (g)			Shelling (%)		
	1 st Season	2 nd Season	Combined	1 st Season	2 nd Season	Combined
Irrigation interval (I):						
8 days (I ₁)	150.45c	156.45c	153.42c	58.50c	54.49c	56.63c
6 days (I ₂)	160.73b	171.73b	166.23b	61.38b	56.73b	59.05b
4 days (I ₃)	170.96a	181.64a	176.30a	64.59a	59.60a	62.10a
F-test	**	**	**	**	**	**
Potassium fertilization levels (K) :						
24 kg K ₂ O/fad (K ₁)	145.92c	152.62c	149.27c	60.49c	55.33c	57.91c
48 kg K ₂ O/fad (K ₂)	164.24b	176.04b	170.14b	61.77b	57.64b	59.71b
72 kg K ₂ O/fad (K ₃)	173.17a	183.25a	178.21a	62.56	58.47a	60.52a
F-test	**	**	**	**	**	**
Phosphorus fertilization levels (P):						
15 kg P ₂ O ₅ /fad (P ₁)	154.27c	162.38c	158.32c	60.32c	55.47c	57.90c
30 kg P ₂ O ₅ /fad (P ₂)	159.88b	171.84b	165.86b	61.77b	57.35b	59.71b
45 kg P ₂ O ₅ /fad (P ₃)	169.19a	177.70a	173.44a	62.79a	58.63a	60.71a
F-test	**	**	**	**	**	**
Interactions :						
I x K	N.S	*	*	**	N.S	N.S
I x P	*	*	*	N.S	**	N.S
K x P	N.S	N.S	N.S	N.S	N.S	N.S

A, b, c Means are bearing different letters in each column, differ significantly (P<0.05).

NS: Not significant, * P <0.05 , ** P <0.01

Table 4. Effect of irrigation interval, potassium and phosphorus fertilization levels on pod yield (kg/fad), seed yield (kg/fad) and foliage yield (t/fad) of peanut in the two growing seasons as well as their combined.

Main effects and interaction	Pod yield (kg/fad)			Seed yield (kg/fad)			Foliage yield (t/fad)		
	1 st Season	2 nd Season	Combined	1 st Season	2 nd Season	Combined	1 st Season	2 nd Season	Combined
Irrigation interval (I):									
8 days (I₁)	759.95c	803.95c	781.54c	445.85c	437.23c	441.62c	4.923c	4.140c	4.540c
6 days (I₂)	855.26b	919.53b	887.40b	529.31b	515.38b	522.34b	5.309b	4.620b	4.965b
4 days (I₃)	938.47a	1121.03a	1029.75a	606.92a	673.80a	640.37a	5.602a	5.020a	5.309a
F-test	**	**	**	**	**	**	**	**	**
Potassium fertilization levels (K) :									
24 kg K₂O/fad (K₁)	758.32c	854.36b	806.35c	464.87c	458.51c	461.49c	4.536c	4.087c	4.311c
48 kg K₂O/fad (K₂)	865.95b	989.34a	927.65b	536.81b	563.45b	550.13b	5.429b	4.698b	5.063b
72 kg K₂O/fad (K₃)	1022.15a	980.39a	589.02a	624.98a	607.00a	5.902a	5.065a	5.483a	
938.64a 1022.15a 980.39a									F-test
									F-test
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Phosphorus fertilization levels (P):									
15 kg P₂O₅/fad (P₁)	794.82c	877.60c	836.21c	481.11c	490.45c	485.98c	4.322c	4.322c	4.322c
30 kg P₂O₅/fad (P₂)	872.07b	979.49b	925.75b	541.35b	562.68b	552.01b	5.402b	4.619b	5.010b
45 kg P₂O₅/fad (P₃)	896.04a	1008.76a	952.40a	568.25a	593.81a	581.03a	5.633a	4.909a	5.271a
F-test	**	**	**	**	**	**	**	**	**
Interactions :									
I x K	N.S	N.S	N.S	N.S	**	*	N.S	*	N.S
I x P	N.S	*	N.S	N.S	N.S	N.S	*	N.S	*
K x P	N.S	N.S	N.S	N.S	*	N.S	*	N.S	N.S

A, b, c Means are bearing different letters in each column, differ significantly (P<0.05).

NS: Not significant, * P <0.05 , ** P <0.01

Table 5. Effect of irrigation interval, potassium and phosphorus fertilization levels on seed oil (%) and seed protein (%) in peanut seeds in the two growing seasons as well as their combined.

Main effects and interactions	Seed oil (%)			Seed protein (%)		
	1 st Season	2 nd Season	Combined	1 st Season	2 nd Season	Combined
Irrigation interval (I):						
8 days (I ₁)	49.83	50.27a	50.05a	27.03a	26.88	26.96
6 days (I ₂)	49.55	49.62b	49.59b	26.78b	26.79	26.79
4 days (I ₃)	49.89	50.28a	50.09a	26.39b	26.99	26.68
F-test	N.S	*	*	*	N.S	N.S
Potassium fertilization levels (K) :						
24 kg K ₂ O/fad (K ₁)	49.10c	49.51c	49.30c	26.18c	26.52b	26.35b
48 kg K ₂ O/fad (K ₂)	49.86b	50.16b	49.81b	26.65b	26.82b	26.74b
72 kg K ₂ O/fad (K ₃)	50.36a	50.59a	50.47a	27.30a	27.35a	27.32a
F-test	**	**	**	*	*	*
Phosphorus fertilization levels (P):						
15 kg P ₂ O ₅ /fad (P ₁)	49.60b	49.89	49.75b	25.95b	26.77	26.36b
30 kg P ₂ O ₅ /fad (P ₂)	49.61b	50.01	49.81b	26.81a	26.94	26.87b
45 kg P ₂ O ₅ /fad (P ₃)	50.12a	50.35	50.23a	27.37a	26.98	27.17a
F-test	**	N.S	*	**	N.S	*
Interactions :						
I x K	N.S	N.S	N.S	N.S	N.S	N.S
I x P	N.S	N.S	N.S	N.S	N.S	N.S
K x P	N.S	N.S	N.S	N.S	N.S	N.S

a, b, c Means are bearing different letters in each column, differ significantly ($P < 0.05$).

Table 6. Simple correlation coefficients between seed yield (kg/fad) and its components of peanut (combined data).

, * $P < 0.05$, ** $P < 0.01$.