

RESEARCH ARTICLE

Association of characters and path of action in table pea (*Pisum sativum* L.)

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SUMMARY

From the data generated from ten varieties/strains namely, AP-2, AP-4, AP-5, AP-1, KS-185, KS-218, KS-601, KS-701, KS-801 and AP-3 and their all possible combinations excluding reciprocals in table pea which were evaluated during 2015-16. The correlation co-efficient analysis revealed that green pod yield per plant showed positive and significant correlations with pod length (0.542), pod width (0.778), number of seeds per pod (0.615), number of pods per plant (0.404), seed shell ratio (0.331) and protein content (0.404). The positive and high direct effect of number of pods per plant (0.398) followed by pod length (0.252), seed shell ratio (0.251) and plant height (0.138) indicated their importance for selection base on it. Seeds per pod and protein content had positive but low direct effect on green pod yield. The major indirect positive effect of seeds per pod *via* pod length, pod width *via* number of first fruiting node, number of pods per plant *via* pod width and no. of seeds per pod, pod width *via* days to 50% flowering and number of fertile branches per plant *via* number of first fruiting node had positive and high indirect effects which indicated that effective selection can made indirectly based on these characters.

Key Words : Table pea, *Pisum sativum*, Selection parameters, Correlation, Path analysis, Pod yield

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