

PEA

Pisum sativum (Garden pea)

P.sativum var.macrocarpon (Edible pod pea)

Origin: Europe and Asia

Edible Portion: Seed (and pod)

SOWING AND PLANTING

Climatic Requirements: Cool climate crop with an optimum mean daily temperature of 17°C.

Preferred Soil Type: Well drained clay loams, silt loams and sandy loams with uniform fertility and aspect.

Seed Required: Process 150-250kg/ha, market 90-120kg/ha.

Optimum Soil Temperature Range for Germination: 4.5-24.0°C.

Emergence Time: 6-36 days, optimum 9 days.

Plant Spacing: Process – In-row 5.0-8.0cm, between rows 15.0-20.0cm. Market – In-row 5.0-8.0cm, between rows 45.0-75.0cm.

Seeding Depth: Normal seeded dwarf types 3.75-5.0cm, new small-seeded dwarf types 2.5-3.0cm.

Plants per Hectare: Market 165,000-445,000. Process plant populations should be about 1,200,00 for maximum yields.

Method of Propagation: Sown directly in situ.

Sowing Dates: Early crops – August to September. Main crops – September to October. With process crops the sowing date is set by the processor in order to fit into the factory's harvesting and processing schedules.

Other Sowing and Planting Information: For a continual harvest of processing and successive market crops the use of an accumulated heat unit system to determine sowing dates is practiced. This system uses the difference between the base temperature for pea crop growth (4.5°C) and the mean daily maximum and minimum air temperatures. Early varieties require approximately 1,200 heat units and main crop varieties 1,500 heat units to reach a mid-point seed maturity. Good seed bed preparation is essential for satisfactory pea crops.

FERTILISER

Optimum Soil Test Levels: N = 100-150, P = 30-45, K = 10-15, Mg = 20-30, Ca = 10-15, Na = 1-10.

Base Dressing (kg/ha): N = 0.0, P = 25.0, K = 50.0-75.0. Seldom is nitrogen applied to peas in the traditional processing areas. The base dressing is applied at sowing below and to one side of the seed furrow.

Side Dressing (kg/ha): Not normally applied.

Optimum pH Range: 5.5-6.8.

Lime Requirement: For correction of pH only.

Safe Fertilisers

66 Chum St Dinmore, QLD. 4303

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PESTS AND DISEASES

Important Pests and Their Control:

Alphids – demeton-S-methyl, dimethoate, disulfoton, pirimicarb

Grass grub - diazinon

Important Diseases and Their Control:

Ascochyta spot – mancozeb, metalaxyl/thiabendazole

Damping off – captan seed treatment

Downy mildew – copper oxychloride, cupric hydroxide, metalaxyl

Fusarium root rot – resistant varieties, long term rotation

Mycosphaerella blight – captan as a seed treatment

Pea mosaic virus – resistant varieties

Pythium – metalaxyl seed treatment

Powdery mildew – cyproconazole, fenarimol, penconazole, sulphur, tebuconazole, triadimefon, triadimenol

Sclerotinia rot – long term rotation



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Pea Program

Seed Coating; Vital Phos @ 4lt/tonne of seed with sufficient water to ensure adequate coating of the seed.

Ground preparation:

Apply; 1 tonne/ha Lime **or** Liquid Lime @ 20lt/ha in 300lt/water

Pre Plant

Apply 100 Kg/Ha Alroc Extra Phos

Apply 10lt/ha Vital Phos, Boom spray with 200lt/ha water

At Planting

Option 1; Apply 75 Kg/Ha NPK 9.5.7 Supablend

With 8lt Vital Phos in 200lt water Boom sprayed onto soil before planting

Option 2; Apply 65kg/ha NPK 15.3.8 Supablend

With 8lt Vital phos in 200lt water Boom sprayed onto soil before planting

Option 3; Liquid Injection- Vital Phos @ 20lt/ha in 300lt water

In Crop Fertiliser requirements:

Nitrogen:

Alroc CBM @ 60kg/ha side dressed

Multi Nutrients:

2 x applications of Vital Mix@ 6lt/ha in 200lt water

This can be folia sprayed, aerial applied or put through an irrigation system.

The above mentioned application rates can be adjusted to what is economical. These adjustments may not provide the ideal nutrient ratios but should replace some of the nutrients that are removed by the crop.

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Disclaimer

The above program will be affected by soil variation, testing errors, seasonal factors and management skills. Any recommendation should be acted upon as part of an ongoing fertiliser program. No responsibility can be accepted for any of the above matters or other matters that are beyond our control.

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