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PLANT TISSUE Sampling Guidelines

BEANS

BLACKEYE BEAN
DRY BEAN
FAVA BEAN
GARBANZO BEAN
GREEN BEAN
LIMA BEAN

Recommended timing

Early growth samples may be collected any time after the appearance of the first trifoliate leaves. Samples may also be taken during early bloom and full bloom. Early bloom is characterized by the appearance of blossoms on at least 50% of the plants. Full bloom represents a shift from vegetative growth to reproductive growth, and the plant will have nearly reached its full vegetative size. Blossoms will be observed on all of the plants, and some of the earliest blossoms will have already set small beans on plants which are in full bloom. A pre-harvest tissue sample may also be desired in situations where fine tuning of the fertility plan is still ongoing. The pre-harvest sample should be taken after bloom is complete, and before senescence of the leaves begins.

Sampling

Select the youngest, fully mature leaves and petioles (usually the 4th one from the top) from 40-50 plants within the sampling block. Separate the petiole from the leaf. The petiole is used for NO₃-N, PO₄-P and K analyses, and the leaves are used for all other analyses.

Preferred analyses

All samples – Test codes 1155 or 1156.

