**Apple:**

**PH value required** - Between 5.8 and 7.0

**Soil required** - Medium textured clays to gravelly sands.

**Sunlight condition** - Apple trees produce best when grown in full sun, which means six or more hours of direct summer sunlight daily.

**Watering condition** - During the first year, the tree is considered newly established. On light/sandy soil water 2x a week, but on clay soil 1x a week. Once the tree is established, it should receive at least one inch of water each week.

**Corn:**

**PH value required** - 5.8 to 6.2

**Soil required** - Loose, loamy potting soil mix with good drainage system.

**Sunlight condition** - Daytime temperatures of 75 to 80 degrees F and 65 to 70 degrees F during the night.

**Watering condition** - Keep the soil evenly moist but not soggy during the growing season (spring through fall). Reduce watering in the late fall to winter.

**Soya Beans:**

**PH value required** – 6.0 to 6.5

**Soil required** – Well drained but not sandy.

**Sunlight condition** – 6 to 8 hours sunlight each day for faster growth more sunlight is required.

**Watering condition** – Typically varies from growth to growth. Excess water may cause plant to prone to diseases and may cost plan to die.

**Images showing plant death due to various conditions:**

A picture containing outdoor, plant, tree

Description automatically generated

1. The above picture describes the weather conditions that plants face. All plants depend on sunlight and water to grow. But during the winter months, **the shortened day provides less sunlight and freezing temperatures mean water is frozen and inaccessible**. Freezing temperatures also rupture plant cells. As the light freezes-29°**to 32° Fahrenheit will kill tender plants**. Most vegetation is severely harmed by moderate freezes of 25° to 28° Fahrenheit. Most plants suffer severe or hard freeze damage when temperatures drop below 25°F.

A picture containing ground, outdoor, tree, plant

Description automatically generated

As the above picture shows When a plant doesn't get enough water, the tips and edges of the leaves dry out and turn brown. Ultimately, **entire leaves will brown and die**. Slow growth. If you are chronically under watering a plant but still giving it enough water to survive, growth will be slower than normal or expected.

Due to various conditions plant growth may be dull or even may cause death. Below is the proposed work which reduces above factors.

Diagram

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