

## Sun One Organic Farm Microclimate Data/Discussion

Abstract:

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### Microclimate Spaces

#### Slope Aspects

All of the slope aspects are facing west. The entire property is sloping towards the west.

#### Sun/Shade Patterns

The property is separated into many areas with different sun and shade patterns. Most relevant to our plans right now are the main growing areas and their sun/shade patterns. The main growing field has full sun with areas up to 40 feet from the eastern edge experiencing more shade throughout the morning and lessening throughout the day. Also as the evening approaches there is some shade that hits the northern part of the growing field from the west edge trees.

On the lower fields west of the silos there is a similar pattern with more sun in the morning and less sun in the afternoon as the taller trees on the western side block out the sun.

Further directed observation will be required in order to begin drawing up sun/shade maps that show greater detail of these patterns on the property.

#### Cold Air Drainage and Frost Pockets

Cold air tends to drain by moving downslope towards a particular low point where frost pockets can form. If the air is stopped midslope by vegetation, frost pockets can form at those points due to poor air movement.