# Year Zero Planning

## Burns Paiute Tribe
## Food Sovereignty Planning

Section 01

# PRIMARY PROJECTS

# Primary Projects

- Community Garden
- Willow Patch
- High Tunnel Cover Crops
- Berry Patch

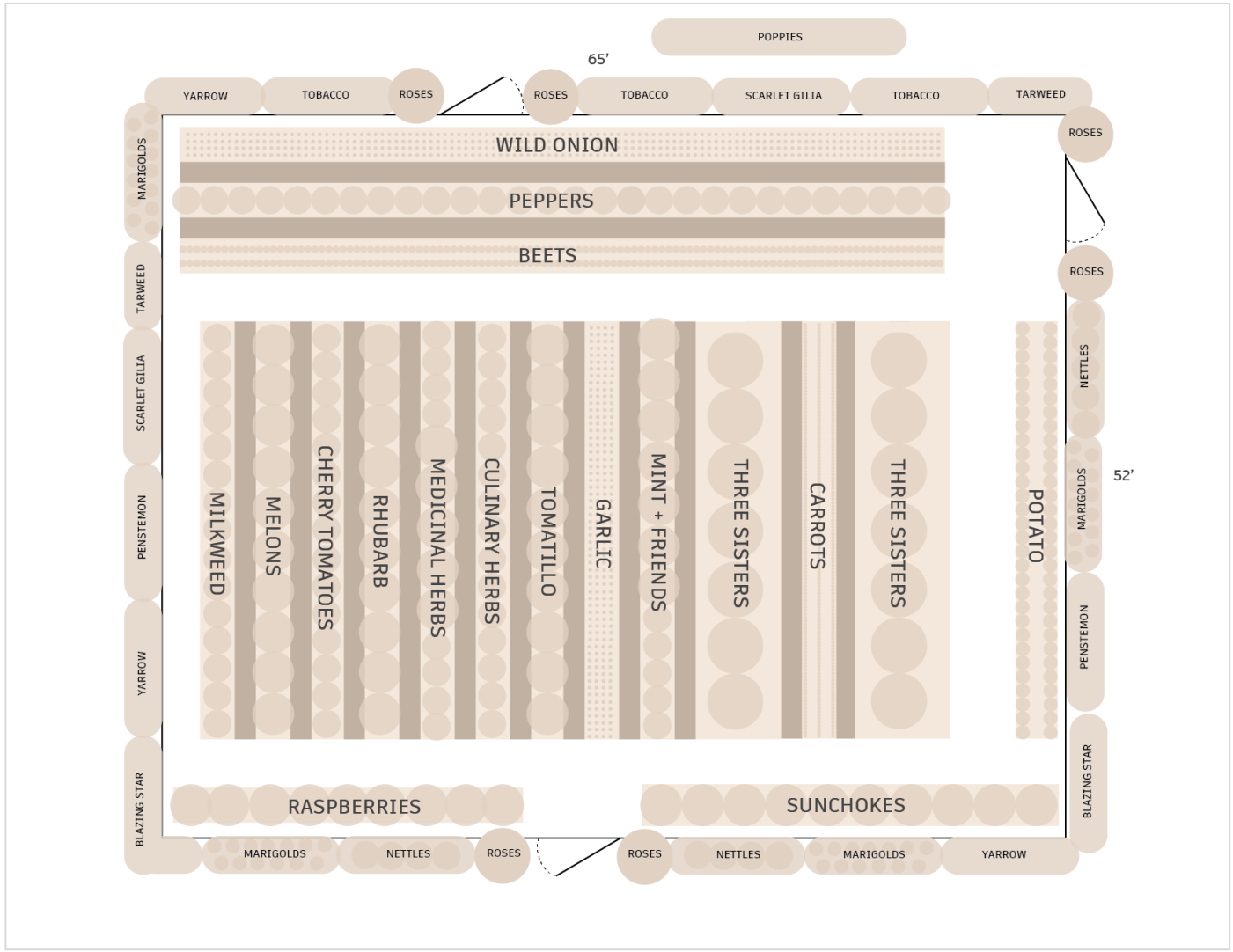
# Community Garden

Primary goal for this year is to grow out storage crops, both native and non-native, to include in food commodities baskets under Kelly's grant

We will also be adding some native plants around the border of the community garden area for pest management, pollinator support, and medicinal harvesting

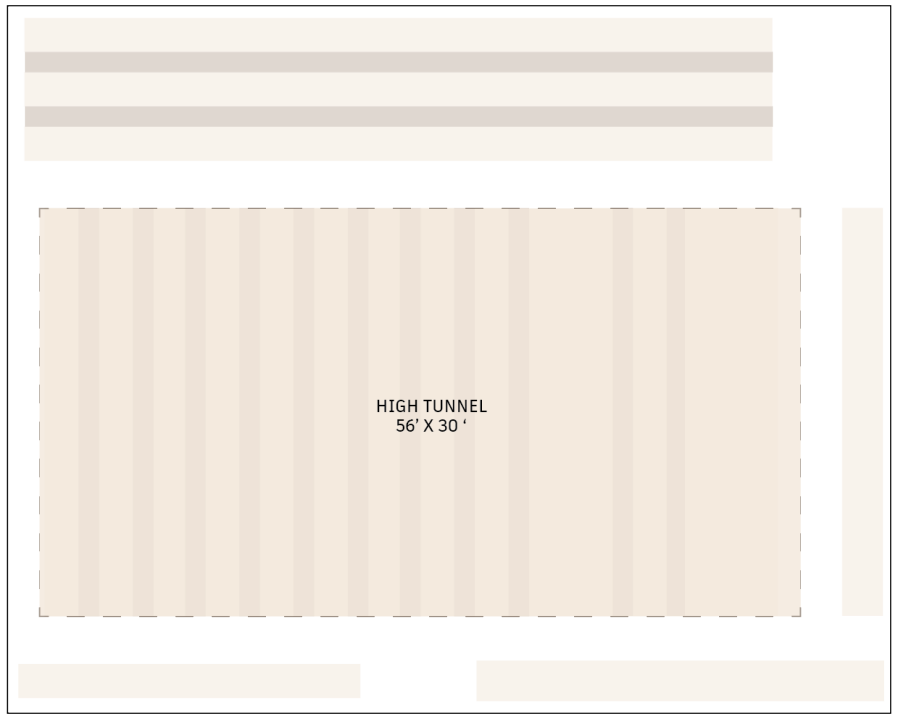
Steps include:

- Moving roses
- Adding compost
- Establishing irrigation
- Starting seeds
- Transplanting seedlings

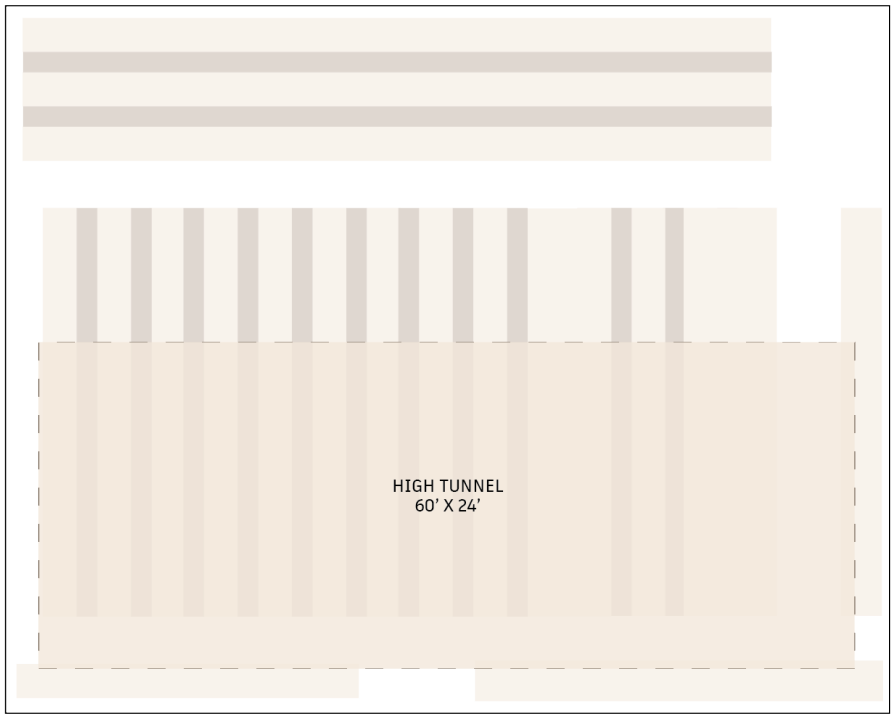


# Community Garden

At the end of this year, we may try to acquire a high tunnel for the community garden. This could either take up the main central rows (option A) or take up a half of the fenced area (option B).




*Option A*




*Option B*

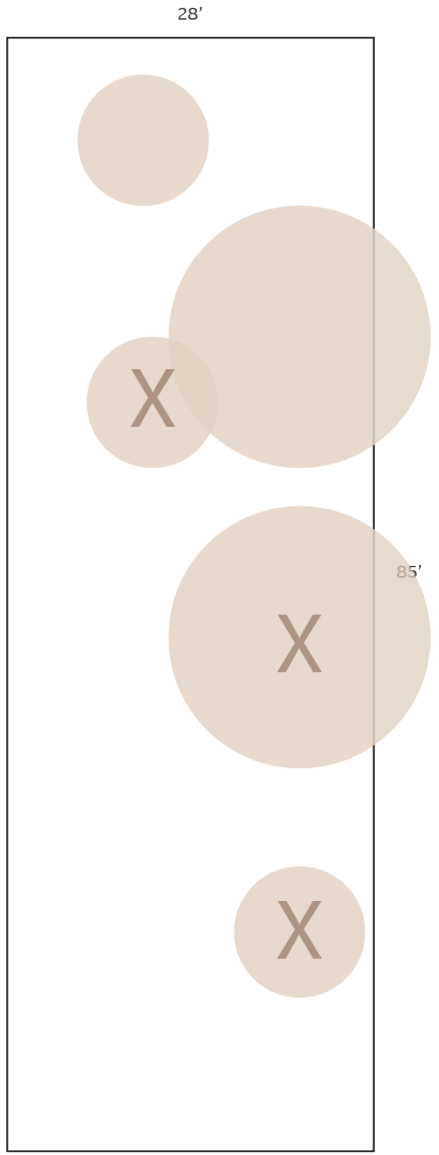
# Willow Patch

Primary goal is to remove dead and infested willow trees, restore the soil, and plant squash.

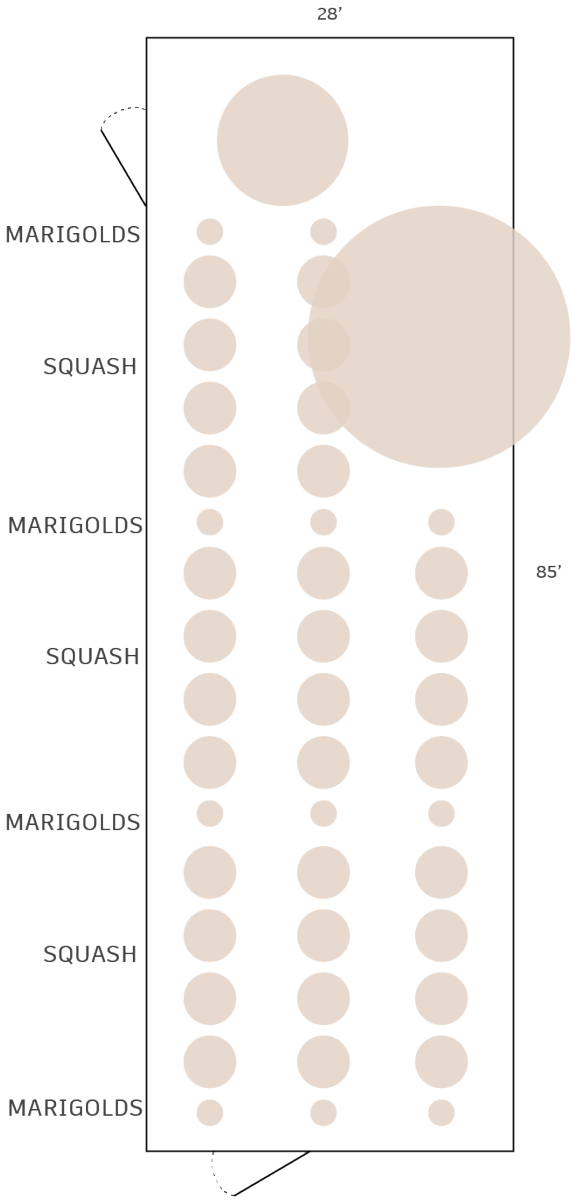
We will also want to find a replacement site for willow and other basketry plants.

Steps include:

- Removing the fence
- Clearing out the dead and infested plants
- Filling with healthy soil and compost
- Establishing irrigation
- Replacing the fence
- Planting with squash




*Current State*



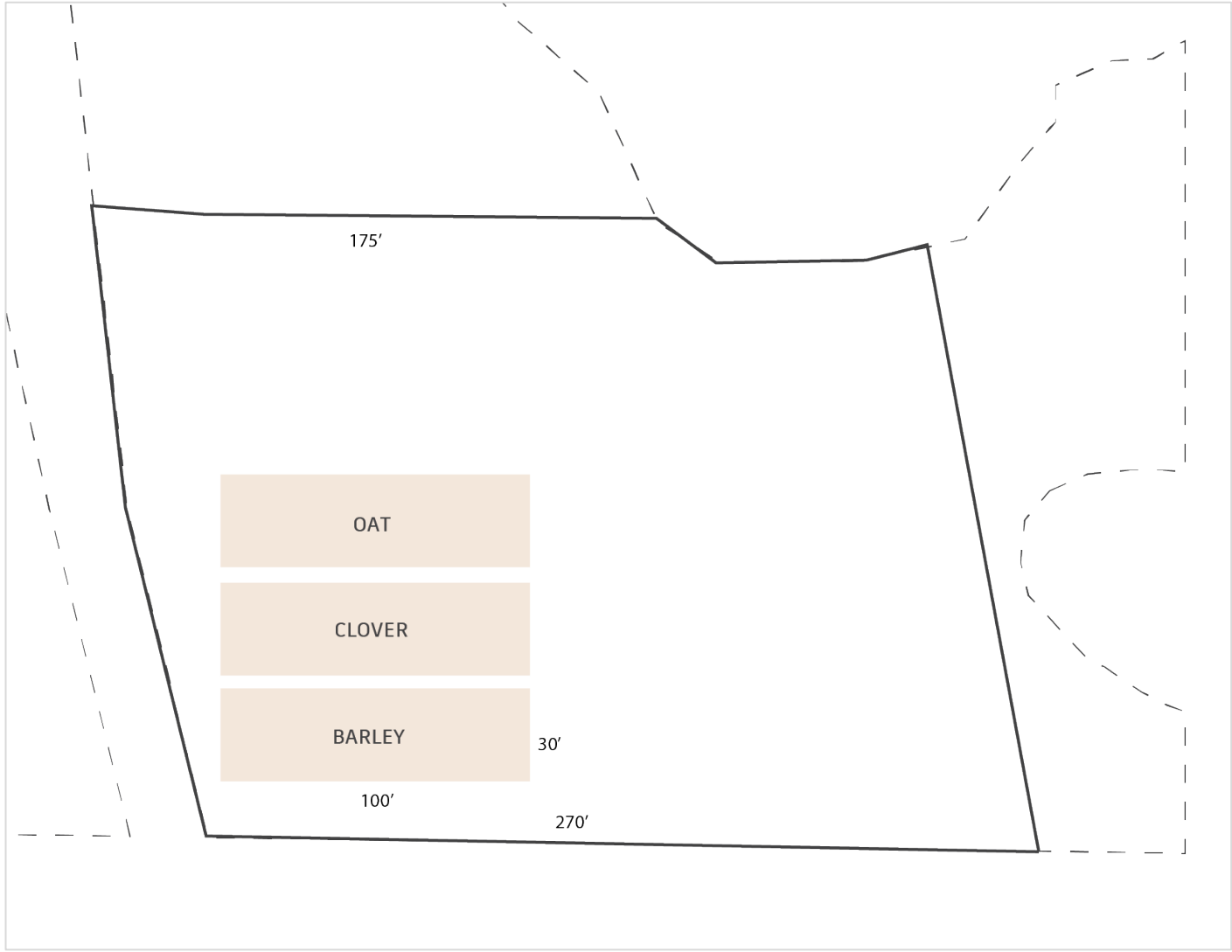

*Tentative Plan*

# High Tunnel Cover Crops

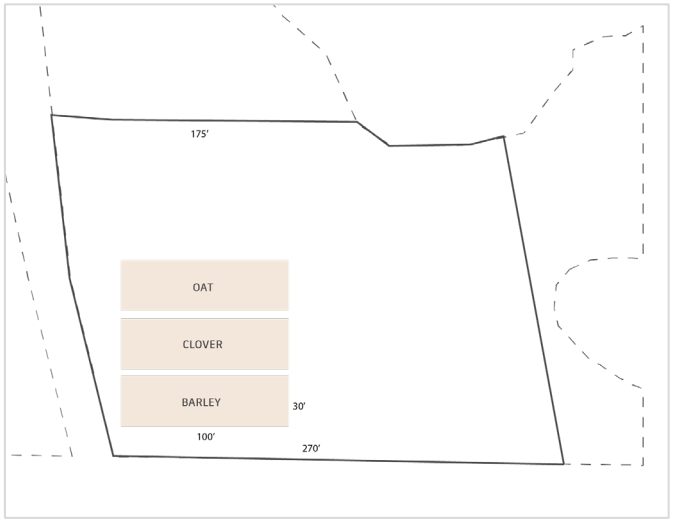
The primary goal is to plant cover crops in the approximate size of high tunnels, in order to qualify for NRCS funding later this year.

Steps include:

- Checking on water access / testing water
- Asking NRCS for timeline to get their approval
- Establishing irrigation
- Amending soil?
- No-till drilling of rye, oat, clover
- Photo-documenting and inviting NRCS to see install



# High Tunnel Cover Crops




*Option 1: Whitney Property SW*

- *Lower flood risk*
- *Poorly drained soils*
- *Potentially easy water access*

*Option 2: Kassler Property*

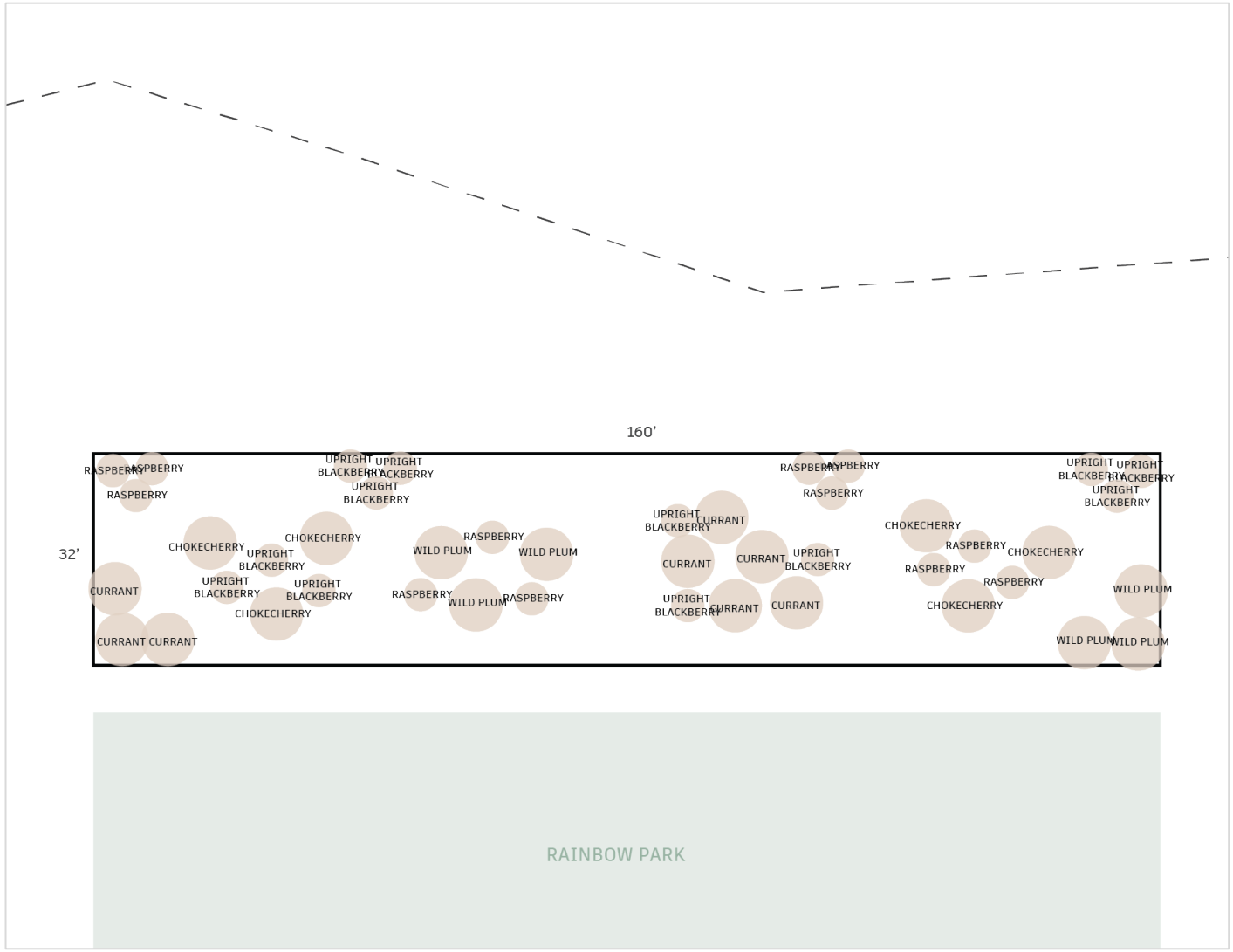
- *More well-drained soils*
- *Unclear about water source*
- *Low flood risk*

# Berry Patch

The primary goal is to supplement berry plants in and around the community garden.

Steps include:

- Harvest cuttings of chokecherry, wild plum, and currants
- Identifying source for blackberries, raspberries
- Growing out cuttings in greenhouse
- Planting the berries
- Establishing irrigation
- Adding deer fencing



Section 02

# TIMELINES

Community Garden

## FOR BASKETS

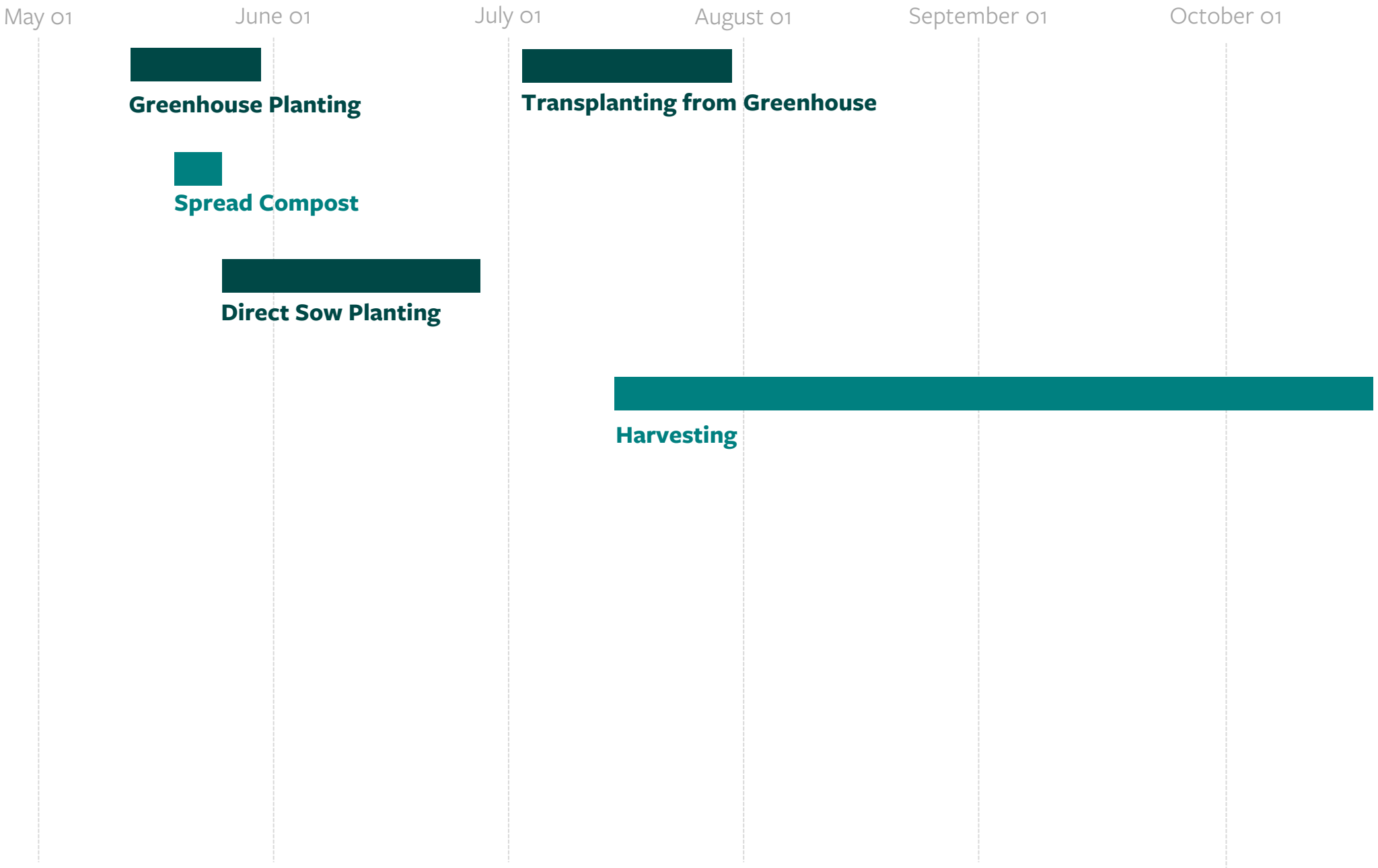
| Plant | Greenhouse or Direct Sow | When to Start Seed | When to Harvest |
|---|---|---|---|
| Peppers (Tribal?) | Greenhouse | April (10 weeks until transplant) | August – September |
| Beets | Direct sow | April – June | August |
| Potato (Tribal) | Direct sow | April – May | August – October |
| Beans (Tribal) | Direct sow | June | August – October |
| Zucchini (Tribal?) | Greenhouse | May (4 weeks until transplant) | July – August |
| Corn (Tribal) | Direct sow | May – June | August – September |
| Carrots | Direct sow | April – June | August |
| Tomatillo (Tribal) | Greenhouse | April (8 weeks until transplant) | July – September |
| Cherry Tomatoes | Greenhouse | April (8 weeks until transplant) | July – September |
| Melons | Greenhouse | May (4 weeks until transplant) | August |
| Sunchokes | N/A | N/A | September – October |

Community Garden

## NOT FOR BASKETS

| Plant | Greenhouse or Direct Seed | When to Start Seed |
|---|---|---|
| Nettles | Direct sow | May – June |
| Marigolds | Direct sow | May – June |
| Wild Onion | Greenhouse | April (10 weeks to transplant) |
| Milkweed | Transplant | N/A |
| Raspberries | Transplant | N/A |
| Rhubarb | Transplant | N/A |
| Mint | Transplant | N/A |
| Catnip | Direct sow | May |
| Beebalm | Direct sow | May |
| Basil | Greenhouse | May (8 weeks to transplant) |
| Oregano | Greenhouse | April (8 weeks to transplant) |
| Nasturtium | Direct Sow | June |
| Comfrey | Greenhouse | May |
| Mugwort | Cold stratify then Direct Sow | May |
| Calendula | Direct sow | June |
| Garlic | Direct sow | November |

# Community Garden



## FOR BASKETS

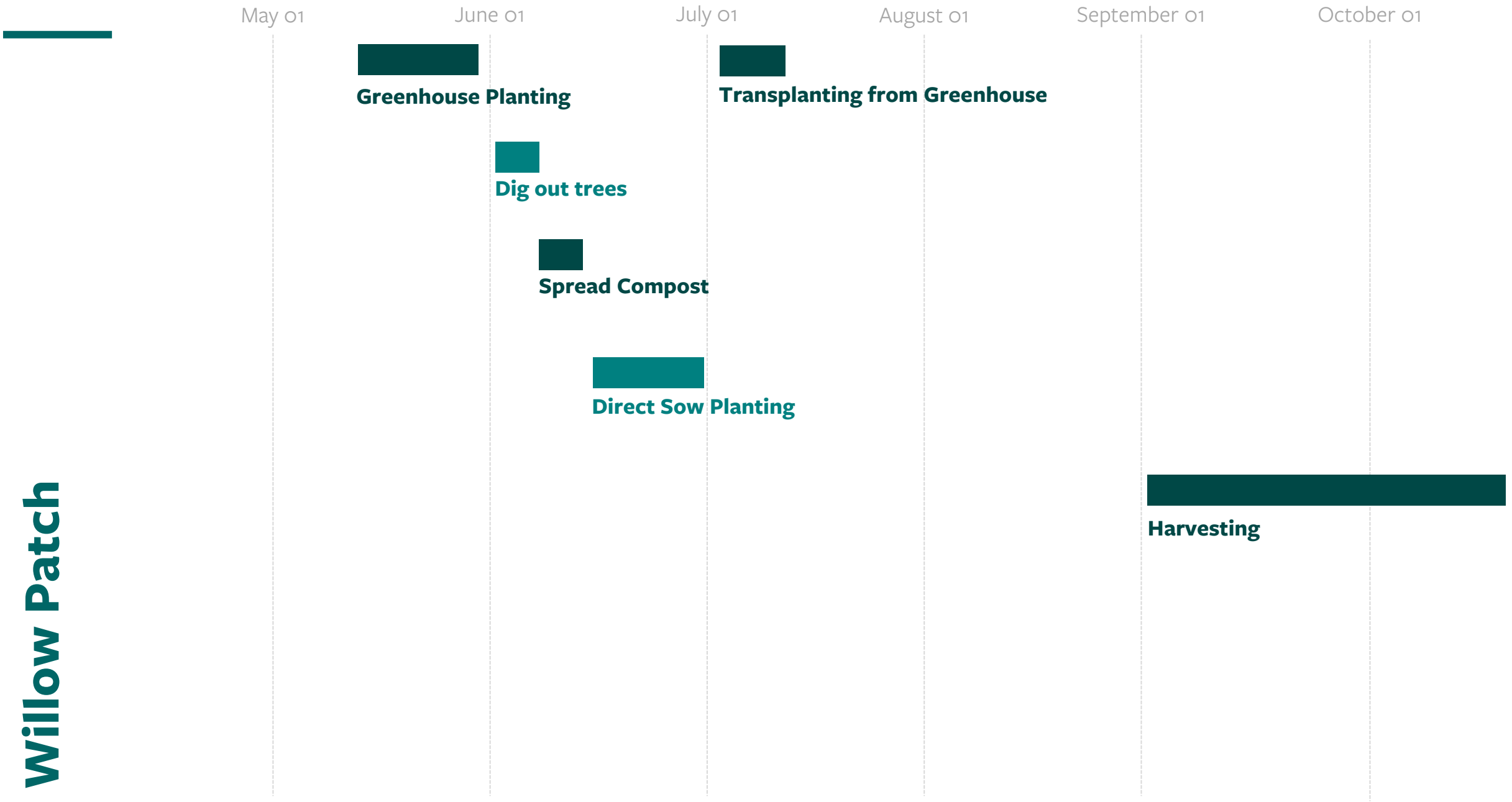
| Plant | Greenhouse or Direct Sow | When to Start Seed | When to Harvest |
|---|---|---|---|
| Squash (Paiute and other Tribal squash) | Greenhouse | May (4 weeks to transplant) | September – October |

## NOT FOR BASKETS

| Plant | Greenhouse or Direct Sow | When to Start Seed |
|---|---|---|
| Marigolds | Direct sow | May – June |

Willow Patch

# Willow Patch



# High Tunnel Cover Crops

## NOT FOR BASKETS

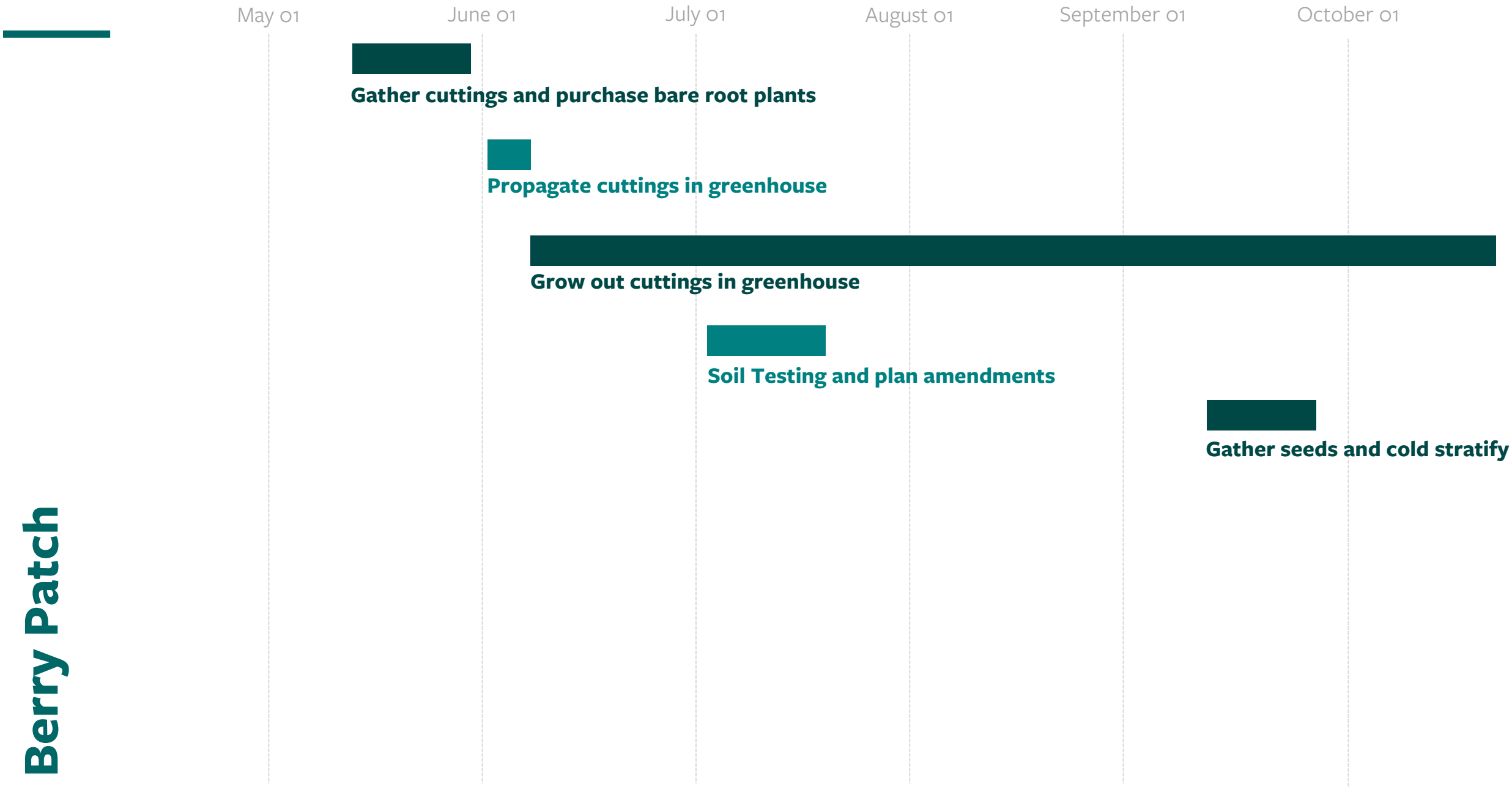
| Plant | Greenhouse or Direct Sow | When to Start Seed |
|---|---|---|
| Barley | Direct sow | May |
| Clover | Direct sow | May |
| Oats | Direct sow | May |

# High Tunnel Cover Crops

## NOT FOR BASKETS

| Plant | Greenhouse or Direct Sow | When to Start Seed |
|---|---|---|
| Raspberry (thornless) | Propagate cuttings, then grow out in greenhouse | Gathering cuttings in April/May |
| Currant | Grow from seed and cold stratify | Gather seed in fall |
| Wild Plum (P. subcordata?) | Propagate cuttings, then grow out in greenhouse | Gather cuttings in May |
| Blackberry (upright, thornless) | Purchase or seek donations | N/A |
| Chokecherry | Propagate cuttings, then grow out in greenhouse | Gather cuttings in April/May |

# Berry Patch


May 01
June 01
July 01
August 01
September 01
October 01
Gather cuttings and purchase bare root plants
Propagate cuttings in greenhouse
Grow out cuttings in greenhouse
Soil Testing and plan amendments
Gather seeds and cold stratify

Section 03

# HARVEST CALCULATIONS

Community Garden

## FOR BASKETS

| Plant | Number of Plants | Harvest estimate | Market Value (per pound) | Estimated Worth |
|---|---|---|---|---|
| Peppers (Tribal? – jalapeno, poblano, paprika) | 29 | 50 lbs | $7.56 * | $378 |
| Beets | 220 | 50 lbs | $2.36 | $118 |
| Potato (Tribal) | 60 | 150 lbs | $4.20 * | $630 |
| Beans (Tribal) | 56 | 40 lbs | $7.41 * | $296 |
| Zucchini (Tribal?) | 28 | 200 lbs | $5.37 * | $1074 |
| Corn (Tribal) | 56 | 60 lbs | $5.67 * | $340 |
| Carrots | 357 | 100 lbs | $2.38 | $238 |
| Tomatillo (Tribal) | 10 | 10 lbs | $4.98 * | $50 |
| Cherry Tomatoes (Tribal?) | 15 | 90 lbs | $12.44 * | $1120 |
| Melons | 10 | 20 lbs | $0.58 | $12 |
| Sunchokes | 10 | 25 lbs | $4.99 | $125 |

* These foods are 3x standard market value because they are Tribal varieties

## FOR BASKETS

| Plant | Number of Plants | Harvest estimate | Market Value (per pound) | Estimated Worth |
|---|---|---|---|---|
| Squash (Paiute and other Tribal) | 32 | 200 lbs | $5.37 * | $1074 |

* These foods are 3x standard market value because they are Tribal varieties

Willow Patch

Section 04

# SEED CALCULATIONS

Community Garden

## FOR BASKETS

| Plant | Number of Plants x 2 (for back-up) | Seed Quantity (3 seed per plant) |
|---|---|---|
| Peppers (Tribal? – jalapeno, poblano, paprika) | 58 | 174 (1 gram / 0.05 oz) |
| Beets | 440 | 1320 (25 grams / 1 oz) |
| Potato (Tribal) | 120 | 360 (0.3 grams / 0.01 oz) |
| Beans (Tribal) | 168 | 504 (168 grams / 7 oz) |
| Zucchini (Tribal?) | 56 | 168 (19 grams / 0.7 oz) |
| Corn (Tribal) | 168 | 504 (100 grams / 3.5 oz) |
| Carrots | 714 | 2142 (3 grams / 0.1 oz) |
| Tomatillo (Tribal) | 20 | 60 (0.1 grams / 0.003 oz) |
| Cherry Tomatoes (Tribal?) | 30 | 90 (0.3 grams / 0.01 oz) |
| Melons | 20 | 60 (4.3 grams / 0.2 oz) |
| Sunchokes | N/A | N/A |

Community Garden

## NOT FOR BASKETS

| Plant | Number of Plants x 2 (for back-up) | Seed Quantity (3 seed per plant) |
|---|---|---|
| Nettles | 26 | 78 (0.01 grams / 0.0003 oz) |
| Marigolds | 104 | 312 (1 gram / 0.05 oz) |
| Wild Onion | N/A | N/A |
| Milkweed | 30 | 90 (0.9 gram / 0.05 oz) |
| Raspberries | N/A | N/A |
| Rhubarb | N/A | N/A |
| Mint | N/A | N/A |
| Catnip | 8 | 24 (0.01 grams / 0.0003 oz) |
| Beebalm | 10 | 30 (0.07 grams / 0.002 oz) |
| Basil | 10 | 30 (0.05 grams / 0.002 oz) |
| Oregano | 10 | 30 (0.003 grams / 0.0001 oz) |
| Nasturtium | 10 | 30 (5 grams / 0.2 oz) |
| Comfrey | 8 | 24 (0.3 grams / 0.01 oz) |
| Mugwort | 10 | 30 (0.008 grams / 0.0002 oz) |
| Calendula | 8 | 24 (0.25 grams / 0.01 oz) |
| Garlic | 480 | 480 cloves (1920 grams / 68 grams) |

Willow Patch

## FOR BASKETS

| Plant | Number of Plants x 2 (for back-up) | Seed Quantity (3 seed per plant) |
|---|---|---|
| Squash (Paiute and other Tribal) | 64 | 192 (39 grams / 1.4 oz) |

## NOT FOR BASKETS

| Plant | Number of Plants x 2 (for back-up) | Seed Quantity (3 seed per plant) |
|---|---|---|
| Marigolds | 22 | 66 (0.2 grams / 0.007 oz) |

# High Tunnel Cover Crops

## NOT FOR BASKETS

| Plant | Sowing Rate | Seed Quantity |
|---|---|---|
| Barley | 70 pounds per acre (.069 acres) | 4.8 pounds |
| Clover | 10 pounds per acre (.069 acres) | 0.7 pounds |
| Oats | 70 pounds per acre (.069 acres) | 4.8 pounds |

## NOT FOR BASKETS

| Plant | Number of Plants x 2 (for back-up) | Number of Cuttings |
|---|---|---|
| Raspberry | 24 | 24 |
| Currant | 16 | 16 |
| Wild Plum | 12 | 12 |
| Blackberry | 24 | 24 |
| Chokecherry | 12 | 12 |

Berry Patch

Section 05

# OTHER MATERIALS

Community Garden

## FOR BASKETS

| Plant | Greenhouse or Direct Sow | Number of Pots |
|---|---|---|
| Peppers | Greenhouse | 58 |
| Beets | Direct sow | N/A |
| Potato | Direct sow | N/A |
| Beans | Direct sow | N/A |
| Squash | Greenhouse | 56 |
| Corn | Direct sow | N/A |
| Carrots | Direct sow | N/A |
| Tomatillo | Greenhouse | 20 |
| Cherry Tomatoes | Greenhouse | 30 |
| Melons | Greenhouse | 20 |
| Sunchokes | N/A | N/A |

Community Garden

## NOT FOR BASKETS

| Plant | Greenhouse or Direct Seed | Number of Pots |
|---|---|---|
| Nettles | Direct sow | N/A |
| Marigolds | Direct sow | N/A |
| Wild Onion | Greenhouse | 436 |
| Milkweed | Transplant / Greenhouse | 30 |
| Raspberries | Transplant | N/A |
| Rhubarb | Transplant | N/A |
| Mint | Transplant | N/A |
| Catnip | Direct sow | N/A |
| Beebalm | Direct sow | N/A |
| Basil | Greenhouse | 10 |
| Oregano | Greenhouse | 10 |
| Nasturtium | Direct Sow | N/A |
| Comfrey | Greenhouse | 8 |
| Mugwort | Cold stratify then Direct Sow | N/A |
| Calendula | Direct sow | N/A |
| Garlic | Direct sow | N/A |

Willow Patch

## FOR BASKETS

| Plant | Greenhouse or Direct Sow | Number of Pots |
|---|---|---|
| Squash | Greenhouse | 64 |

## NOT FOR BASKETS

| Plant | Greenhouse or Direct Sow | Number of Pots |
|---|---|---|
| Marigolds | Direct sow | N/A |

# High Tunnel Cover Crops

## NOT FOR BASKETS

| Plant | Greenhouse or Direct Sow | Number of Pots |
|---|---|---|
| Barley | Direct sow | N/A |
| Clover | Direct sow | N/A |
| Oats | Direct sow | N/A |

# Berry Patch

## NOT FOR BASKETS

| Plant | Greenhouse or Direct Sow | Number of Pots |
|---|---|---|
| Raspberry | Propagate cuttings, then grow out in greenhouse | 24 |
| Currant | Grow from seed and cold stratify | 16 |
| Wild Plum | Propagate cuttings, then grow out in Greenhouse | 12 |
| Blackberry | Purchase or seek donations | N/A |
| Chokecherry | Propagate cuttings, then grow out in greenhouse | 12 |

# Greenhouse Materials

Total Numbers of Pots: **810**

Total Numbers of Trays: **45**

Quantity of Seed Starting Soil: **17 cubic feet**
(*assuming 3" x 3" x 4" pots*)

# Compost

| Location | Planting Area Size | Compost Amount |
|---|---|---|
| Community Garden | 1800 sq ft | 3600 cubic feet |
| Willow Patch | 2380 sq ft | 4760 cubic feet |
| Norris Field | N/A | N/A |
| Berry Patch | N/A | N/A |

# Other Materials

Greenhouse Mesh: **tbd**

Shading Fabric: **tbd**

Soaker hose: **tbd**

Bird Netting: **tbd**