

- Tunnels provide a 1-month calendar shift so when it is December you plan as if it was November instead, and January becomes February. In effect, December and January "do not happen".

- Learn various crops' abilities to face fierce cold weather. Your climate zone will greatly affect this. Foundation Farm is in Zone 6A.
- Certain crop sub-types or varieties will outperform their siblings in harsh weather



- Supporting cast: arugula, cilantro, turnip, scallions, chard
- Extras: collard, mustard

- My winter list of "problem-crops": spinach, carrots, and cauliflower. Reasons include poor germination, questionable hardiness, sensitivity to insects, diseases and weeds, and more.
- Keep in mind that some varieties will stand out in term of hardiness or overall adaption to our area.



|                      |                                       | Foun                | Planning 🎢          |                   |   |  |
|----------------------|---------------------------------------|---------------------|---------------------|-------------------|---|--|
|                      | direct<br>seeded<br>vs.<br>transplant | market<br>potential | multiple<br>harvest | cold<br>hardiness | notable varieties                                   |  |
| bokchoi              | ds/t                                  | **                  | yes/no              | **                | black summer, tatsoi                                |  |
| cabbage              | t                                     | **                  | no                  | **                | copenhagen  |  |
| arugula              | ds                                    | ***                 | yes                 | ***               |   |  |
| baby greens          | ds                                    | ***                 | yes                 | **                | red salad bowl, mizuna,<br>tatsoi, red russian kale |  |
| lettuce              |                                       | **                  | no                  | **                | magenta, panisse                                    |  |
| mustard              |                                       | *                   | yes                 | **                | green giant   |  |
| kale                 | t                                     | ***                 | yes                 | **                | siberian, reflex                                    |  |
| chard                | t                                     | **                  | yes                 | **                |   |  |
| collard              | t                                     | *                   | yes                 | ***               |   |  |
| spinach              | ds                                    | ***                 | yes                 | ***               | tyee, space   |  |
| parsley              |                                       | **                  | yes                 | **                |   |  |
| cilantro             | ds/t                                  | ***                 | no                  | **                | santo   |  |
| mache                | ds                                    | **                  | no                  | ***               |   |  |
| japanese turnip      | ds                                    | **                  | no                  | **                |   |  |
| purple top<br>turnip | ds                                    | *                   | no                  | ***               |   |  |
| carrot               | ds                                    | ***                 | no                  | ***               |   |  |
| radish/daikon        | ds                                    | **                  | no                  | **                | cherry belle  |  |
| leek                 | ds/t                                  | **                  | no                  | **                |   |  |
| green onion          | ds/t                                  | **                  | no                  | **                | evergreen   |  |

# Factor 6: Plant Density

- A direct result of fertility, and light access
  Experimenting now with denser plantings
  Up to 5 lines of lettuce on a 4 foot bed

## Factor 7: Plant Positioning

- Factors: hardiness, shape and size
  Position in the tunnel
  Position in the bed



- All above factors bottom line with profit/square foot/month
   Lettrue leads so far
   Bed on the right reached a record \$1,000
   in November.

- Faced with a restricted cultivated area (under tunnel), and limited choices of plants, winter rotations are next to impossible to plan for. It is fortunate that the overall health of our soil allows for the by-passing of rotation, a golden nule of organic farming.
- Nevertheless, we try to alternate the few families of plants that we can play with.

























