

Direct Seeding Guide (Jang JP1 Seeder)

Variety	Approximate DTM	Planting Density	Roller	Gears	Furrow Depth
<i>Baby Lettuce Mix</i>	28	8 Rows	Y24	9F14R	1/4"
<i>Arugula</i>	21	8 Rows	YX24	9F14R	1/4"
<i>Baby Kale</i>	25	6 Rows	F24	9F14R	1/4"
<i>Baby Chard</i>	30	6 Rows	LJ12	9F14R	1/4"
<i>Spinach</i>	28	6 Rows (4 rows in winter)	F24 (brush up)	9F14R	1/4"
<i>Carrots</i>	54	5 Rows	X24	9F14R	1/4"
<i>Radish</i>	22	4 Rows	F24	9F14R	1/4"
<i>Salad Turnip</i>	38	3 Rows	X24	9F14R	1/4"
<i>Brassicas Mix</i>	21	8 Rows	YYJ24 OR X24 (brush up)	9F14R	1/4"

Field Notes:

- Water carrots in well and cover with a silage tarp white side up. Check for germination daily and remove tarp during the evening at the first sight of germination.
- Arugula, kale radish, turnips and greens mix need to be netted April – mid September to prevent flea beetle damage.
- Spinach can be grown at 4 rows to a larger size. Additional spacing allows for better air flow.
- Kale can be direct sown at 3 rows and thinned for full size kale production.
- Lettuce mix and greens mix need to be seeded every 2-3 weeks for consistent production during the main season.
- Turnips seeded at this density are very tight and produce smaller golf ball sized roots.

Transplant Spacing Guide (guide layouts below)

Variety	Approximate DTM	Planting Group	Plug Size & pot up to
<i>Head Lettuce</i>	55	Three	128
<i>Swiss Chard</i>	55	Two	72
<i>Bunching Onions</i>	65	Three/ Four	128
<i>Bunching Kale</i>	55	Two	72
<i>Tomatoes</i>	65	On Center	72 – 4” pot
<i>Cucumbers</i>	50	On Center	2.5” pot
<i>Squash/ Zucchini</i>	50	On Center	2.5” pot
<i>Basil</i>	70	Three	128
<i>Parsley</i>	75	3D	128
<i>Ginger</i>	240	3D	Flat
<i>Leeks</i>	120	Four	Flat – 72
<i>Onions</i>	105	3D/ Four	72
<i>Broccoli</i>	42	Two	72
<i>Eggplant</i>	70	On Center	2.5” pot
<i>Beets</i>	45	3D/ Four	72
<i>Peppers</i>	70	On Center	72 – 4” pot
<i>Garlic</i>	290	Four	-
<i>Celery</i>	80	Three	72

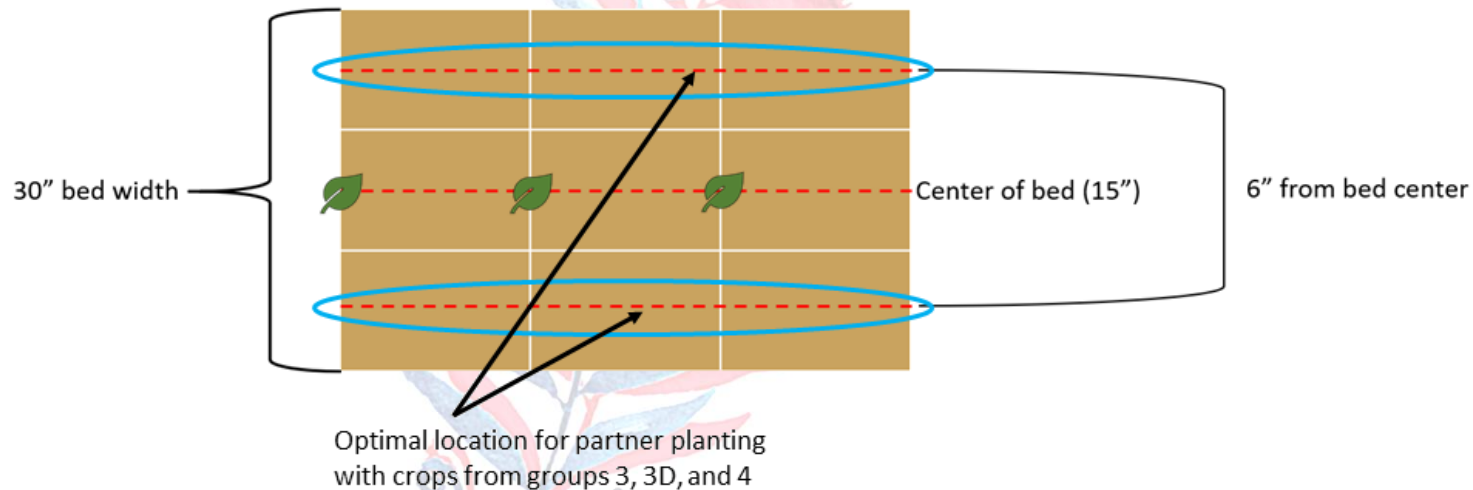
Field Notes:

- *Increase in row spacing to 12" for broccoli crowns.*
- *Squash, zucchini, eggplant should all be bumped in a minimum of 12" from the end of the bed when transplanting to prevent walkway crowding.*
- *Capitalize on interplanting with Group 1 and 2 plantings. Ginger, basil, parsley, and lettuce go well with tomatoes. Lettuce and radish pair well with peppers. Cucumbers go well with radish and lettuce. Keep the bottom portion of the vines pruned well.*
- *Planting in a diamond pattern may increase the total number of plants per square foot for eggplant, squash and zucchini.*
- *Some crops can cross over groups. Plants with denser plantings tend to yield smaller sized crops.*

Group 1 Plantings (On Center):

- Tomatoes (18")
- Cucumbers (12")
- Peppers (12")
- Squash (20")
- Zucchini (20")
- Eggplant (18")

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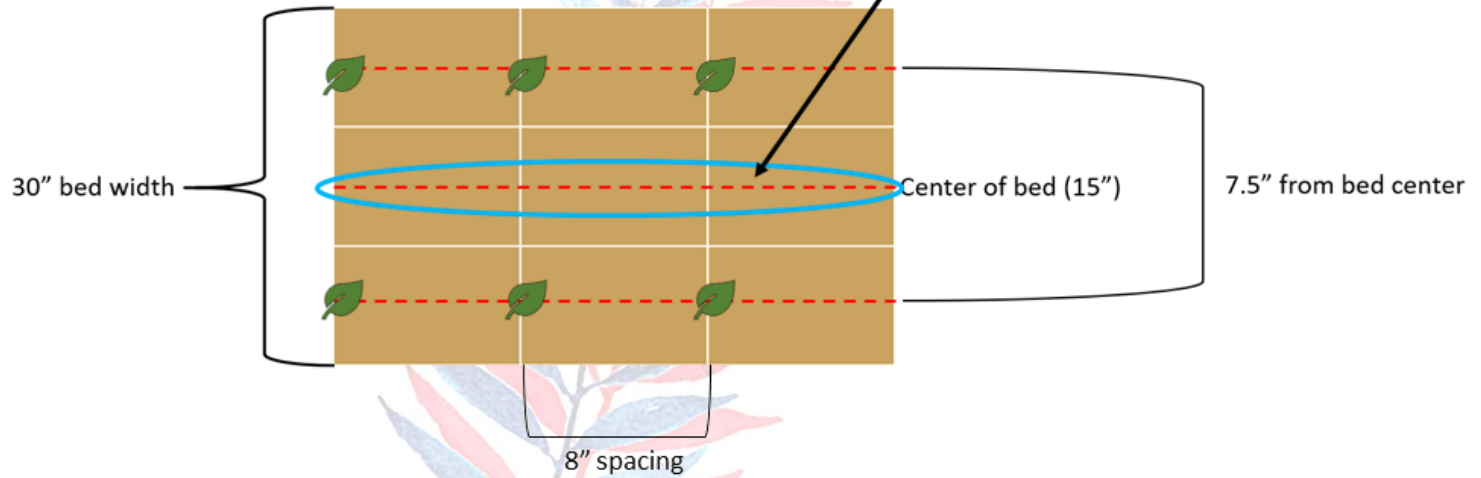


Group 2 Plantings:

- Chard
- Kale
- Broccoli

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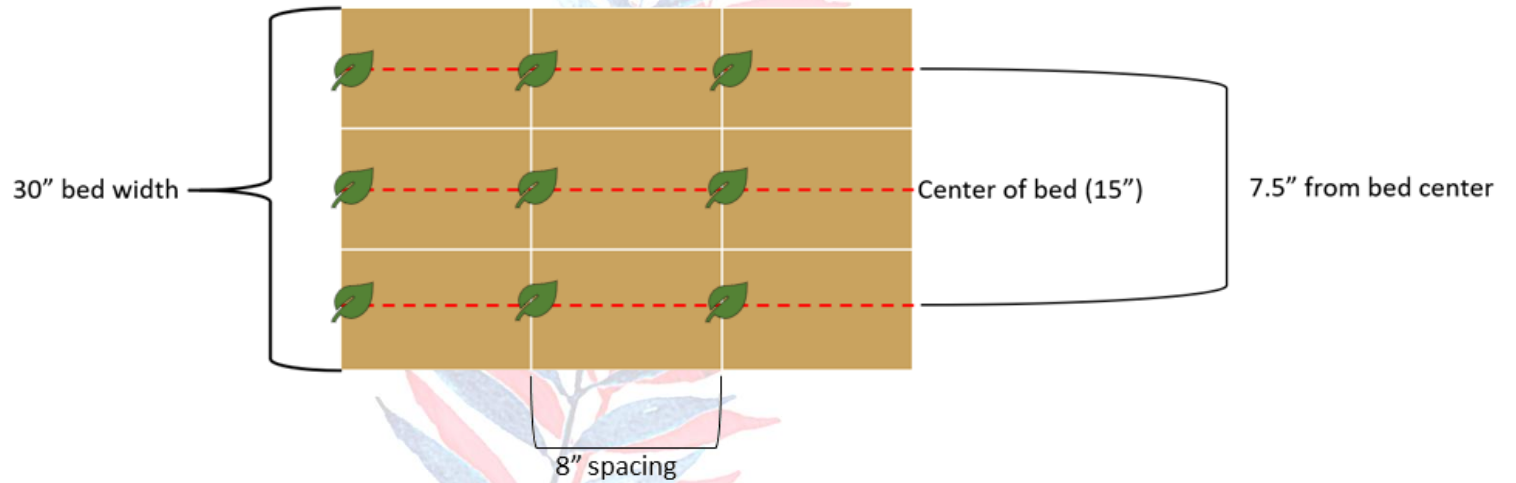
Optimal location for partner planting with fast growing crops for a quick harvest before the main crop matures



Group 3 Plantings:

- Head Lettuce
- Celery
- Bunching Onions
- Basil

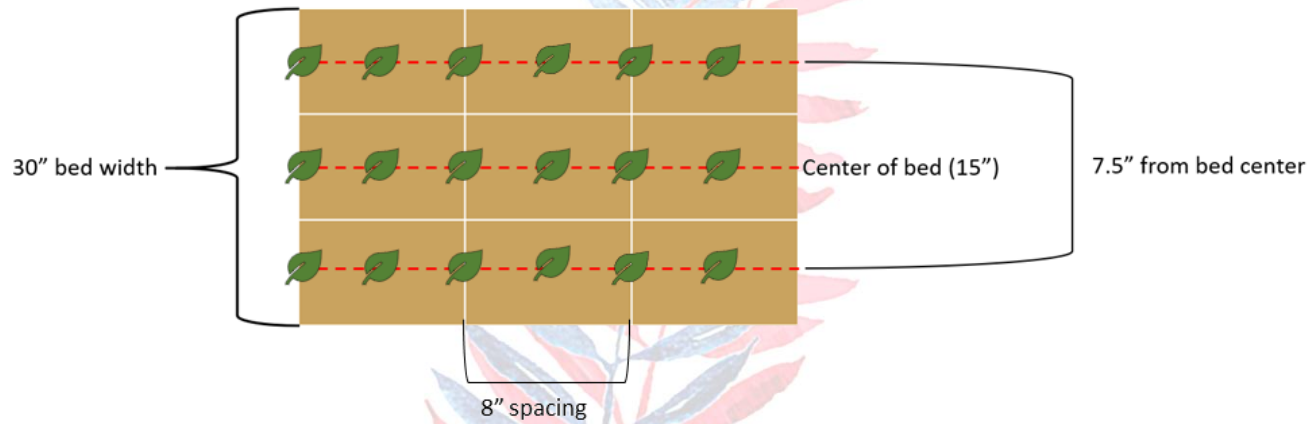
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Group 3 Dense Plantings (3D):

- Beets
- Parsley
- Onions
- Ginger

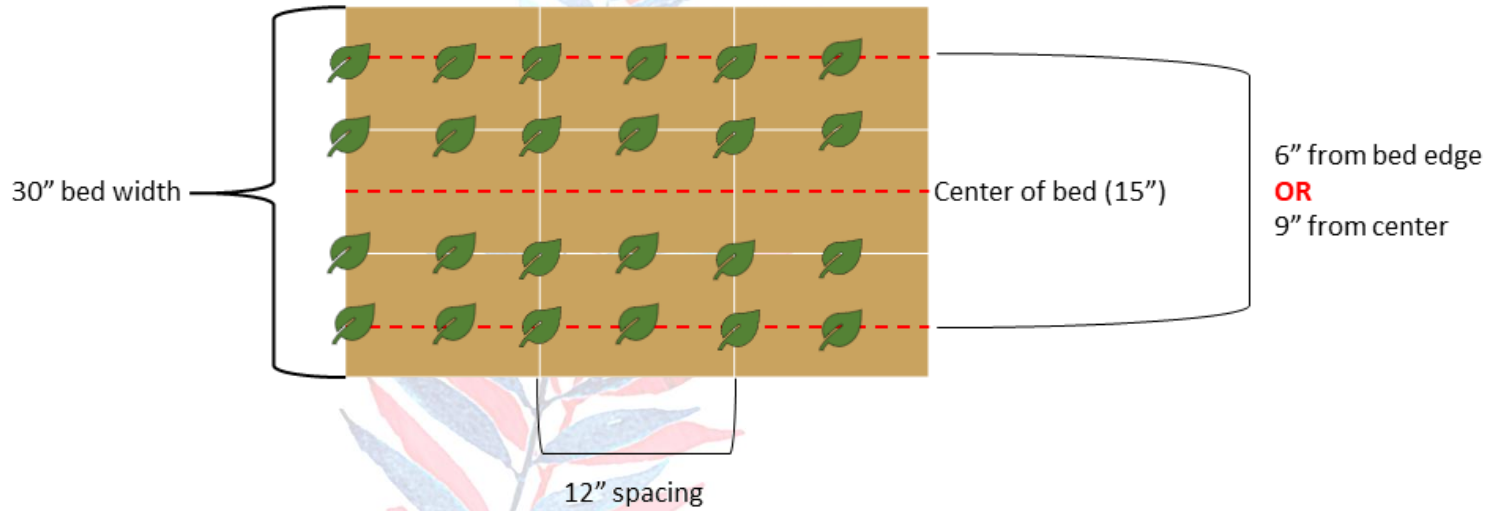
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Group 4 Plantings:

- Bunching Onions
- Garlic
- Beets
- Onions
- Leeks

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