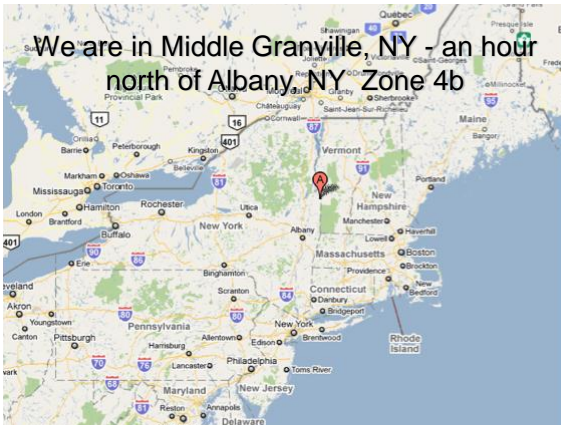




Lettuce in January

This talk will be on my blog..

www.michael-kilpatrick.com



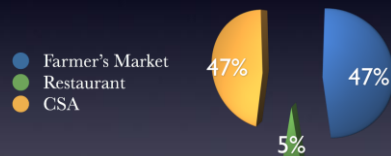
Brief History

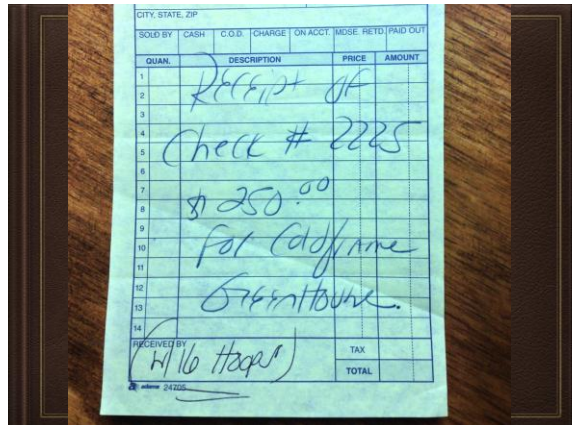
- started in 2004, rototiller and strong backs
- 2005, first tractor, Super C and first high tunnel
- 2006, first year of CSA, 10 members
- 2009, 130 members at 4 markets
- 2011, home delivery in the albany area with 24 shares

12' profile

- 14 acres in crops, 25 in cover crop
- 8 full time employees during the summer
- 2 full time employees during the winter
- 3 weekly summer markets/ 2 winter
- 285 CSA summer shares / 140 winter shares
- over 1/3 acre under tunnels

Income \$450,000+







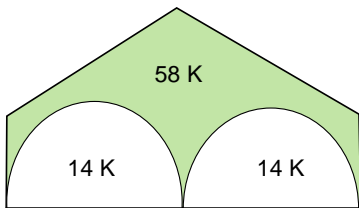
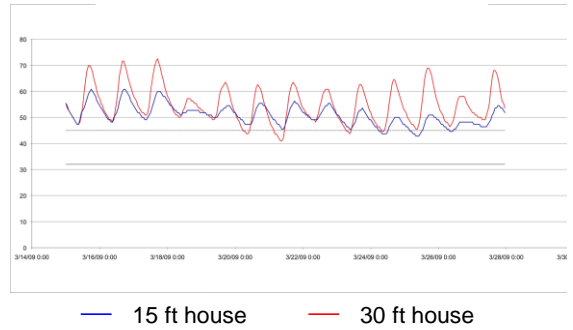
Transplant House

- all transplants on farm are started here in this 17' x 48' house
- air and bench heat
- Note germination chamber on right
- hose on wire and pulleys
- benches are covered with several layers of rowcover at night to retain heat



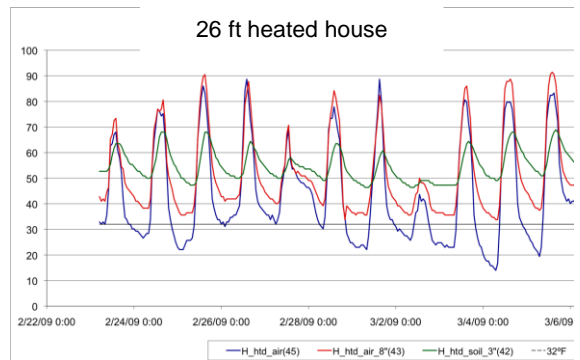
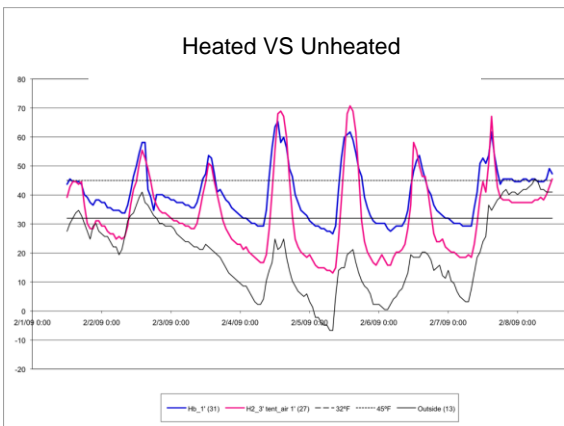
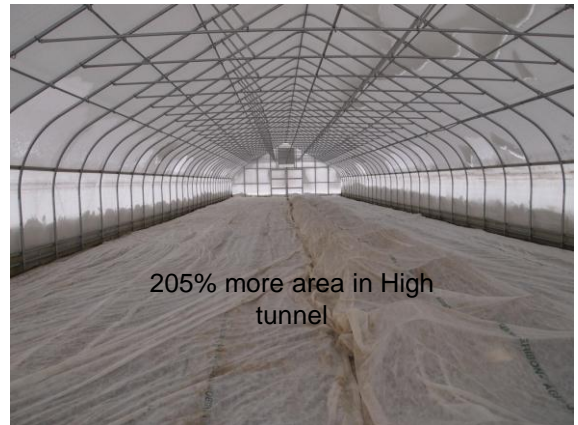


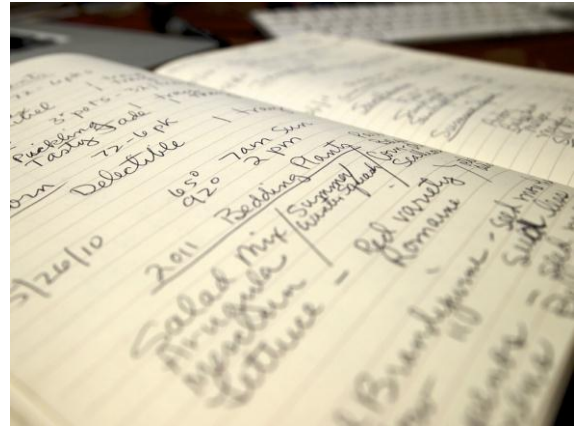
15 ft hoop house VS 30 ft high tunnel



Area of hoophouses 28,000 cubic ft

Area of high tunnel 58,000 cubic ft

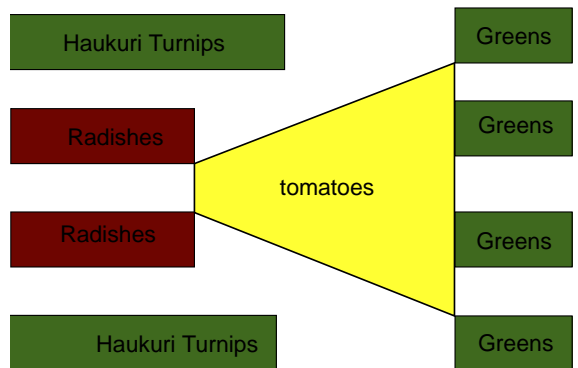




MICRO< MILD	each	7	2	
Onions, Yellow	lb			
Pac Choi	bunch	58	2	
Parsley	bunch			
Parsnip 1st	lb	26.5		
Potatoes, Fingerling	pt	38.5	22.5	11
Potatoes, Red	lb	34.5 + 36.5	34.5 + 4	32.5
Potatoes, Yellow	quart	37 + 34	34.5	
Radish, Diakon	lb	24.5	18	6.5
Radishes Loose	pt	7.5	1.5	
Root Parsley	lb	19	16.5	
Rutabaga	lb	30	20	10
Salad Mix	bag	54	0	
Shallots	lb			
Spinach	bag	64	0	
Spinach, Baby	bag	43	40	
Spinach, Red, baby	bag	12	0	
Sunflowers	each	12	1	
Turnips, Bulk	lb	8.5	3.5	

Item Number	crop	variety	Days	Seed date	plant date	container	Com	Have	See	See	Plant	Field	bed	row
								?	orde	de	de		feet	s
									per	per	coll			per
									red	per	need			bed
2126	Anchoke	Imperial Star		3/1	5/16	20 rows 3'	JSS		1	250		Tomato house 3	450	1
2015g	Angula	Astro			2/8		JSS	Y				Haygrove 3	30	5
2015g	Angula	Astro			3/1		JSS	Y					100	4
2015g	Angula	Astro			4/4		JSS	Y	lb			TW	25	4
2015g	Angula	Astro			4/11		JSS	Y				TW	25	4
2015g	Angula	Astro			4/18		JSS	Y				TW	25	4
2015g	Angula	Astro			4/25		JSS	Y				TW	25	4
2015g	Angula	Astro			5/2		JSS	Y				TW	25	4
2015g	Angula	Astro			5/9		JSS	Y				TW	25	4
2015g	Angula	Astro			5/16		JSS	Y				TW	25	4
2015g	Angula	Astro			5/23		JSS	Y				TW	25	4
2015g	Angula	Astro			5/30		JSS	Y				TW	25	4
2015g	Angula	Astro			6/6		JSS	Y				TW	25	4
2015g	Angula	Astro			6/13		JSS	Y				TW	25	4
2015g	Angula	Astro			6/20		JSS	Y				TW	25	4
2015g	Angula	Astro			6/27		JSS	Y				TW	25	4
2015g	Angula	Astro			7/4		JSS	Y				GR 4	25	4
2015g	Angula	Astro			7/11		JSS	Y				GR 4	25	4
2015g	Angula	Astro			7/18		JSS	Y				GR 4	25	4
2015g	Angula	Astro			7/25		JSS	Y				GR 4	25	4
2015g	Angula	Astro			8/1		JSS	Y				TW	25	4
2015g	Angula	Astro			8/8		JSS	Y				TW	25	4
2015g	Angula	Astro			8/15		JSS	Y				TW	25	4
2015g	Angula	Astro			8/22		JSS	Y				TW	25	4
2015g	Angula	Astro			8/29		JSS	Y				Bottom	100	12
2015g	Angula	Astro			9/5		JSS	Y				Bottom	100	12
2015g	Angula	Astro			9/12		JSS	Y				Bottom	150	12
3021BO	Angula	Ice-Bred			9/17		FS		oz			Bottom	200	12
3021BO	Angula	Ice-Bred			9/22		FS					Bottom	200	12
3021BO	Angula	Ice-Bred			9/26		FS					Bottom	200	12
3021BO	Angula	Ice-Bred			10/1		FS					Haygrove 4	50	12

	3/1	3/15	4/1	4/15	5/1	5/15	6/1	6/15
Haygrove 2011								
BED 1	strawberries 1st half/	strawberries 1st half	strawberries 1st half/lettuce mix/mescun xx	strawberries 1st half/lettuce mix/mescun xx	strawberries 1st half/lettuce mix/mescun	strawberries 1st half/lettuce mix/mescun	strawberries 1st half/lettuce mix/mescun	basil
BED 2	transplanted turnips and radishes in center of bedbox	transplanted turnips and radishes in center of bed	transplanted turnips and radishes in center of bed	transplanted turnips and radishes in center of bed	Tomatoes in center of bed turnips finishing up on edges	Tomatoes in center of bed turnips finishing up on edges	tomatoes	tomatoes
BED 3	Arugula/mesc lunxx	Arugula/mesc lun	Arugula/mesc lun	beans	beans	beans/ cukes in center of bed	beans/ cukes in center of bed	beans/ cukes in center of bed
BED 4	Swiss chard, mustards, pac choi, hon tsai tai xx	Swiss chard, mustards, pac choi, hon tsai tai	Swiss chard, mustards, pac choi, hon tsai tai	Swiss chard, mustards, pac choi, hon tsai tai	peppers	peppers	peppers	peppers

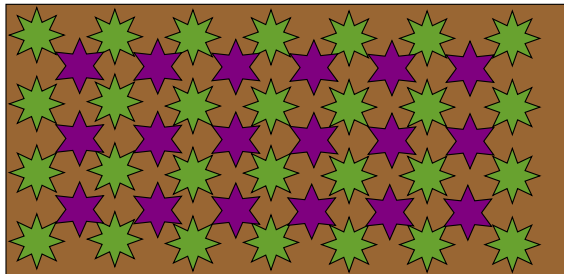


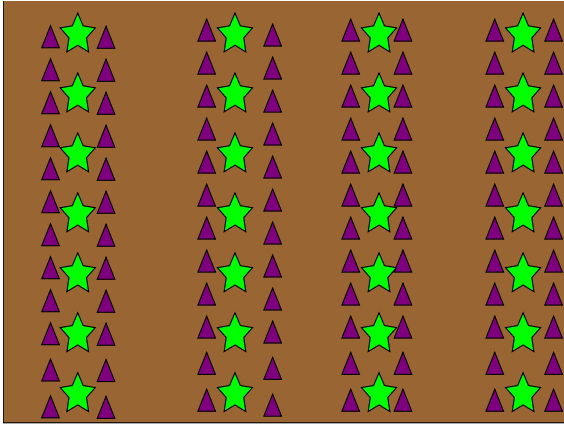


9/1	9/15	10/1	10/15	11/1	11/15	12/1
Long House Fall						
Tomato	Tomato	Tomato	spinach	spinach	spinach	spinachxx
Tomato	Tomato	Tomato	boc choi, asian greens, swiss chard-interplanted	boc choi, asian greens, swiss chard-interplanted	boc choi, asian greens, swiss chard-interplanted	boc choi, asian greens, swiss chard-interplanted
Tomato	Tomato	Tomato	mesclun	mesclun	mesclun	mesclunxx
Tomato	Tomato	Tomato	mesclun	mesclun	mesclun	mesclunxx
Ginger	Ginger	Ginger	spinach	spinach	spinach	spinachxx

Interplanting

-  Swiss Chard
-  Boc Choi





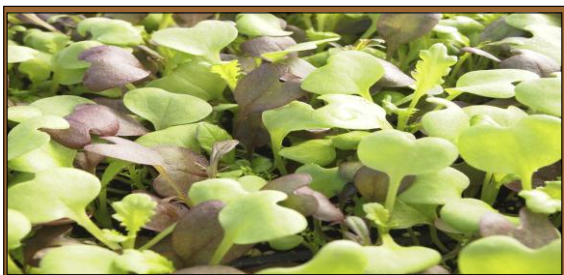
Overplanting



Onions

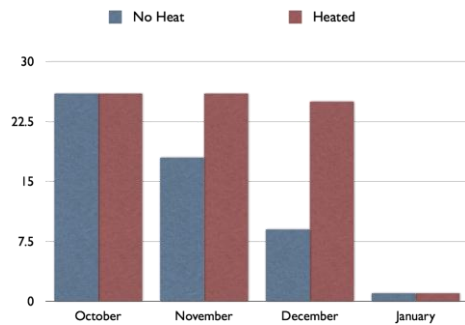
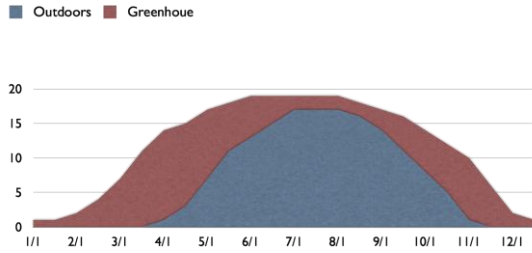


Micromix



664	Radish	Rover		2/7	2/28		JSS		3	3600	1200	200	3	Haygrove 2			
2015g	Arugula	Astro			3/1		JSS	y				100	4	Haygrove 3	brassic		
1C	Mesclun, Greenhouse	Mixed	28		3/1				0	16000	100	8	Haygrove 3	brassic2			
702	Swiss Chard, Greenhouse	ruby red			3/1		JSS		0	3600	50	6	Haygrove 2	beet			
706	Turnip, Greenhouse	Hakuri		1/24	3/1	200 sp	JSS		4	3200	800	200	2	Haygrove 2			
	Greens, Greenhouse	Mixed	45	1/24	3/7	200 speeding								Haygrove 4			
138	Greens, Greenhouse	Hon Tsai Tai	37	2/8	3/7	200 speeding			2	532	266	50	4	Haygrove 4			
2460	Greens, Greenhouse	Black summer	45	2/8	3/7	200 speeding			1	266	266	50	4	Haygrove 4			
1C	Mesclun, Greenhouse	Mustards	28	1/25	3/7				3	780	260	50	4	Haygrove 4			
703D	Swiss Chard	Bright Lights		1/28	3/15	200 speedflim	JSS		1	300	300	100	3	Hoophouse			
Item Number	crop	variety	Days	See date	plant date	container	Com	H	See pany	ds s	Seeds	Plants	Plants	bed	rows	Field	Plate
									se	red	s	nee	d	feet	per		
									e	d							
									?								

Growth rates





Spinach Successions

seed	trans	Location	Type	Sales date
plant				
9/1		raised field beds	baby	November
9/1		hoophouse	full size	February
9/25		Haygrove	baby	December
10/10		High-tunnel	baby	December/January
10/6	11/6	High-tunnel	full size	Emergency



Spinach Successions

seed trans plant	Location	Type	Sales date
9/1	raised field beds	baby	November
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10/10	High-tunnel	baby	December/January
10/6	11/6 High-tunnel	full size	Emergency



- Hoophouse spinach is seeded by September 1st
- fertilized and weeded 3 weeks later with soybean meal
- preferred Varieties are Space or Donkey
- Spinach makes around \$300,000 an acre when covered



Spinach Successions

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9/1		hoophouse	full size	February
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10/10		High-tunnel	baby	December/January
10/6	11/6	High-tunnel	full size	Emergency



Seeded Baby Spinach

- Seeded by October 10th
- seeded at 30 seeds per ft with rows 8" apart
- Pigeon or Red Cardinal (for Christmas Spinach)



- Bordeaux or Red Cardinal (new Johnnys varley)
- Faster regrowth 4-5 cuttings during our growing season
- does bolt faster in the spring
- really good flavor!



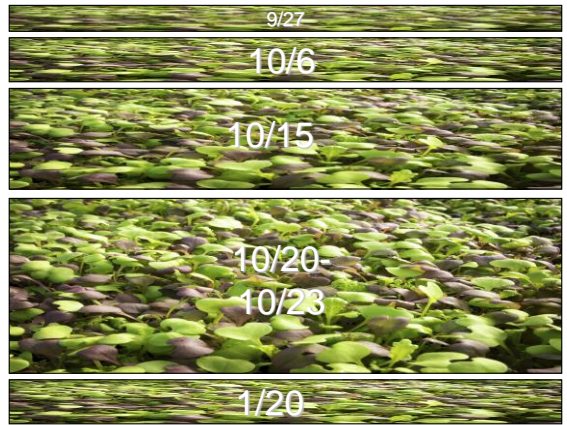
Samish F1	HMS (ALF15-03)	yes	3.75	1.06	1.20	2.16	3.24	5.84	0.00	0.00	0.00	17.25
Bloomsdale Longstanding	HMS (TER15-20)	yes	0	0.84	0.86	1.52	2.06	6.58	3.48	2.90	0.00	18.24
Regiment F1	BEJ	yes	1.5	0.78	0.88	1.50	2.08	6.44	3.96	3.10	3.46	23.70
Convair F1	HMS (VIT15-15)	yes	2.75	1.88	1.20	2.34	3.32	5.92	5.98	1.98	0.00	25.37
Donkey F1	RZ	no	2.5	0.92	1.06	1.72	3.24	5.82	4.00	3.36	4.86	27.48
Renegade F1	HMS (BEJ14-S2)	yes	2.75	2.2	1.24	2.68	2.72	6.84	5.94	3.32	0.00	27.69
Raccoon F1	RZ	no	1.75	2.02	1.22	2.72	3.72	10.10	6.78	0.00	0.00	28.31
Palco F1	HLD	yes in 2012	3.25	1.7	1.44	1.62	3.08	6.02	5.58	4.98	6.14	33.21
Tyee F1	HMS (ALF15-05)	yes	2.5	1.5	1.66	2.56	3.48	7.98	4.96	4.00	5.00	33.64
Giant Winter	HMS (WOD15-03)	yes	3.5	1.74	0.92	1.78	5.40	8.34	7.24	3.66	0.00	34.58
Space F1	HMS	no	4.2	3.04	1.46	2.80	4.68	7.66	7.30	3.48	0.00	34.62
Pigeon F1	RZ	yes in 2012	6	2.5	1.36	2.60	4.66	7.44	7.20	3.28	0.00	35.04
Variety	Source	Available from HMS	9-Nov	9-Feb	18-Mar	23-Mar	4-Apr	13-Apr	27-Apr	6-May	19-May	Total weight







- Seeded around 30 of September
- start harvest mid November
- will cover with mini tunnels before snow for harvest until christmas





For mid-winter replantings (usually after lettuce), we will come in with transplants (6" x 6" spacing seeded 5-8 seeds per cell)





Braising greens

braising greens is mesclun in the “teenage” stage or 8”-10” tall. In early spring we usually can’t keep up with the growth of the greens and then just cut and bunch individual varieties. We’ll even bunch it after it has flowered!



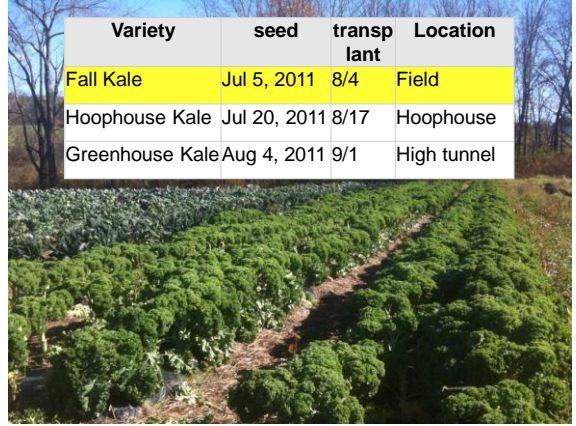
Pictures courtesy of Johnny's Seeds



Arugula



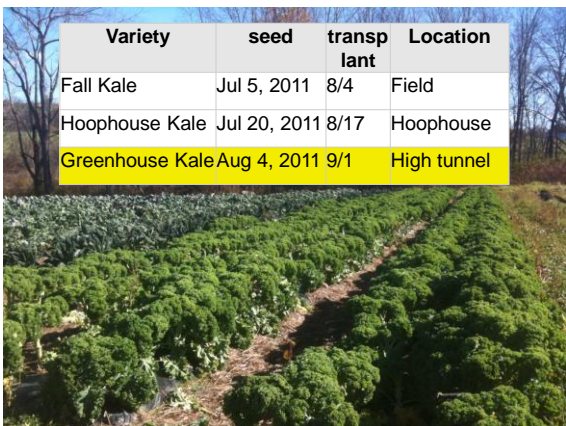


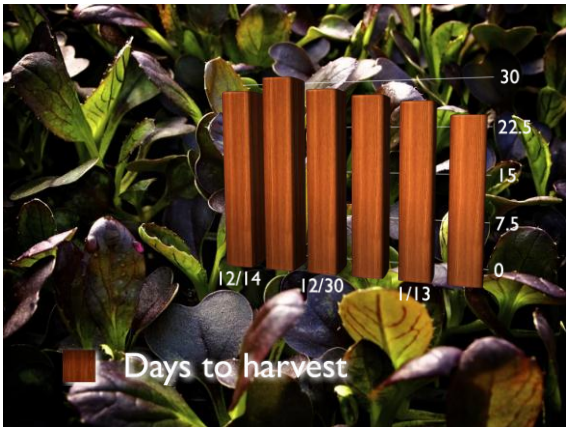




Variety	seed	transp lant	Location
Fall Kale	Jul 5, 2011	8/4	Field
Hoophouse Kale	Jul 20, 2011	8/17	Hoophouse
Greenhouse Kale	Aug 4, 2011	9/1	High tunnel











Swiss Chard

Variety	seed	transplant	Location
Bright Lights	8/1		Field/mini-houses
Bright Lights	8/10	10/13	High tunnel
Bright Lights	8/10	10/28	High tunnel
Fordhook giant	9/10		high tunnel



Swiss Chard

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seed	transplant	Location	Sales date
7/28	9/5	raised field	November
8/10	9/27	Haygrove	December
8/20	10/5	unheated house	January, March
8/30	10/12	heated house	February
12/22	2/28	high-tunnel	April

Varieties

- need Downy Mildew Tolerant (DMT) varieties
- Johnnys 5 star mix (192) good place to start
- like sulu, concept, magenta, winter density



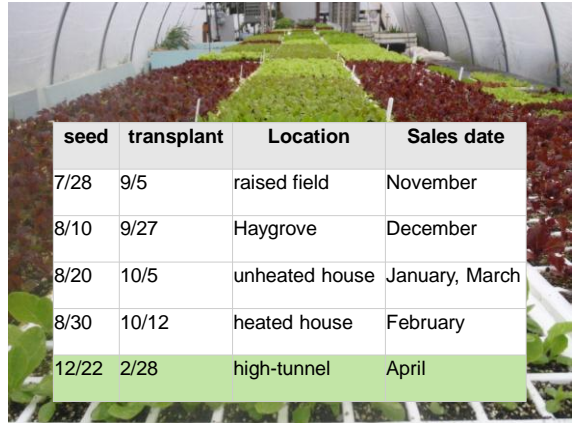


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12/22	2/28	high-tunnel	April









Variety	seed	transplan	Location
		t	
Pac choi	8/20	9/16	field
Pac choi	8/25	9/30	haygrove
Broccoli Raab	9/9	10/21	haygrove
Pac choi	9/9	10/15	high tunnel
Vitamin Green	9/9	10/15	High tunnel
Tokyo Bekana	9/9	10/15	High tunnel
Yukina savoy	9/9	10/15	High tunnel





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@mkilpatrick21



Kilpatrick Family Farm
or
Michael Kilpatrick

www.michael-kilpatrick.com

www.kilpatrickfamilyfarm.com