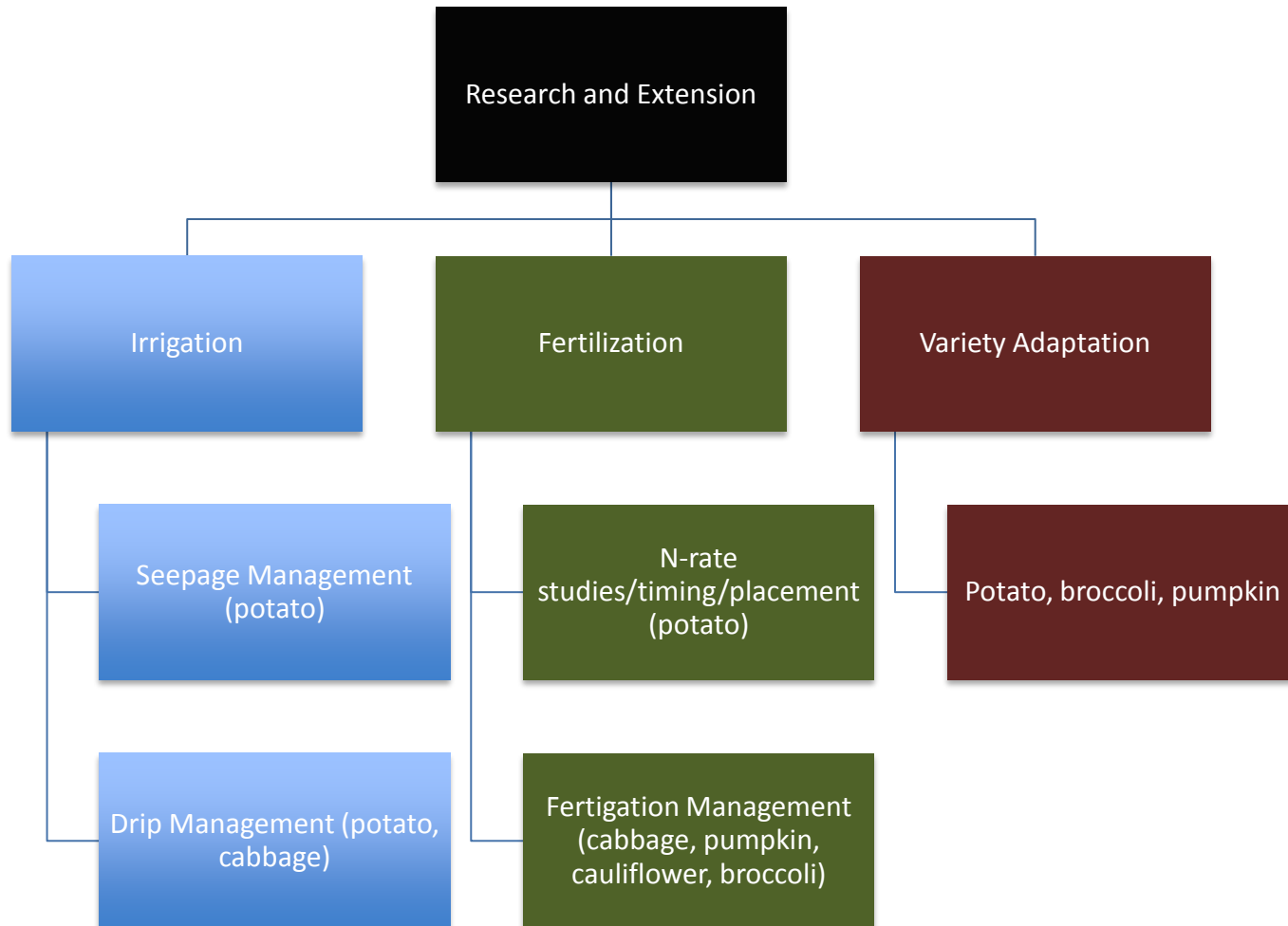


UF Partnership for Water, Agriculture & Community Sustainability at Hastings Downtown Facility

Lincoln Zotarelli
Horticultural Sciences Department
University of Florida



Research/Extension/Educational Program Areas



Cabbage Research/Extension

Drip irrigation and plant density trials

Objective: “evaluate the effect of different plant density in cabbage head size, yield and quality characteristics on drip irrigated/fertigated design”.

Cowpen Branch Research Farm

- ✓ 2010/11 – Cabbage density trial (Dec planting)
- ✓ 2011/12 – Cabbage density trial (Oct and Dec planting)
- ✓ 2013 – on farm demo

Cabbage Research/Extension

Drip irrigation and plant density trials

2010/2011 Treatment	Plant population		
ID	Expected (#/ac)	Observed (#/ac)	% stand reduction
3R 6"	33,696	29,835	11.5
3R 8"	25,272	23,026	8.9
3R 10"	20,218	17,761	12.2
3R 12"	16,848	12,987	22.9
3R 14"	14,441	9,547	33.9
4R 6"	44,928	38,399	14.5
4R 8"	33,696	31,941	5.2
4R 10"	26,957	25,132	6.8
4R 12"	22,464	20,428	9.1
4R 14"	19,255	15,093	21.6



Cabbage Research/Extension

Drip irrigation and plant density trials

Who is working on this project:

1. Mark Warren, David Dinkins, Steve Lands
2. Doug Gergela (support farm crew)
3. Scott Taylor
4. Simone C. Mello (Postdoc – Dec 2011)
5. Tatiana Borisova and John Vansickle (UF -Economics Dept.)
6. L. Zotarelli

Collaboration with:

Cabbage growers, Mark Barnes, Mr. Miller, Chuck Owen

Cabbage Research/Extension

Drip irrigation and plant density trials

2012 – Efforts expected from TCAA-Extension Team

- ✓ Field day – Cabbage School – March/2012
- ✓ Continue the survey on commercial cabbage operation focus on cabbage losses and alternative uses;
- ✓ 2013 – on farm demonstration of drip/fertigated trials based on research results and grower support on the transition from seepage to drip irrigation.



Thank you!

