

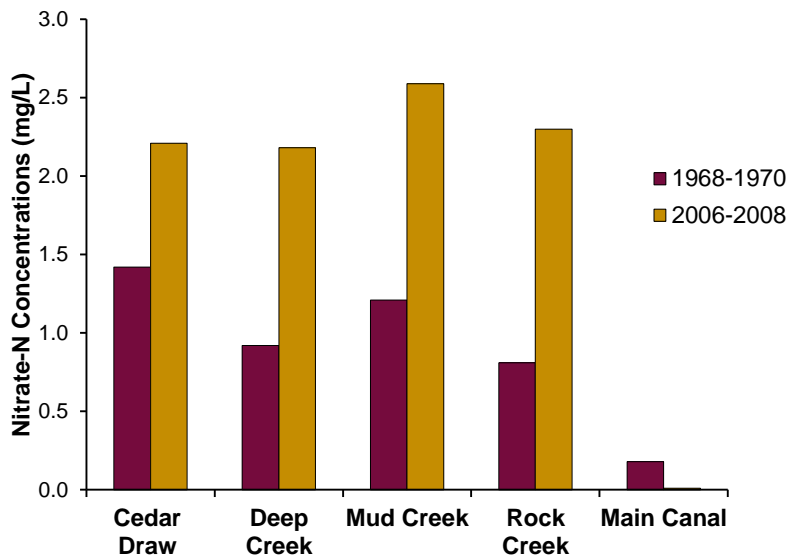
Nitrogen in the Soil

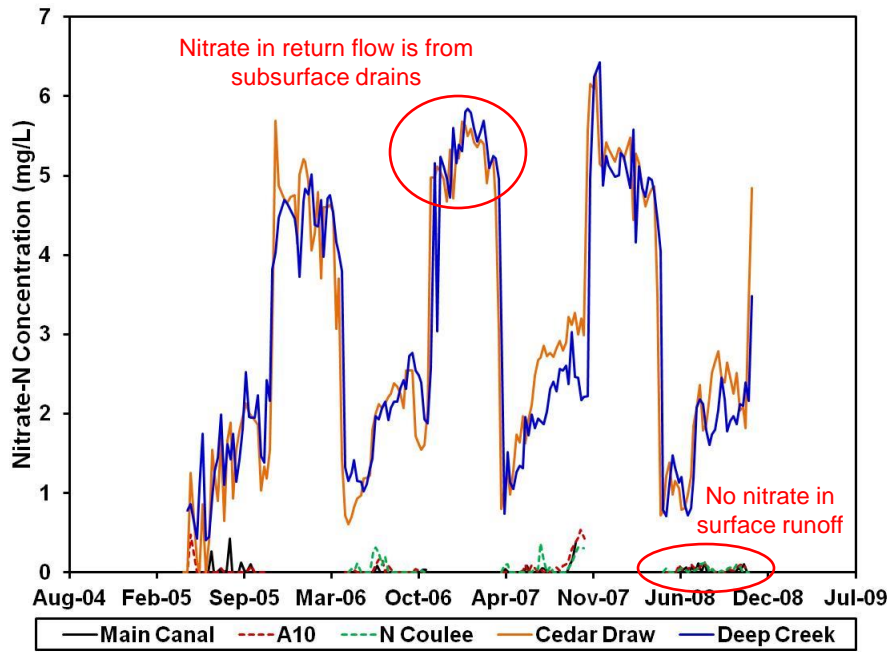
Amber Moore, University of Idaho
David Tarkalson and David Bjorneberg,
USDA Agricultural Research Service

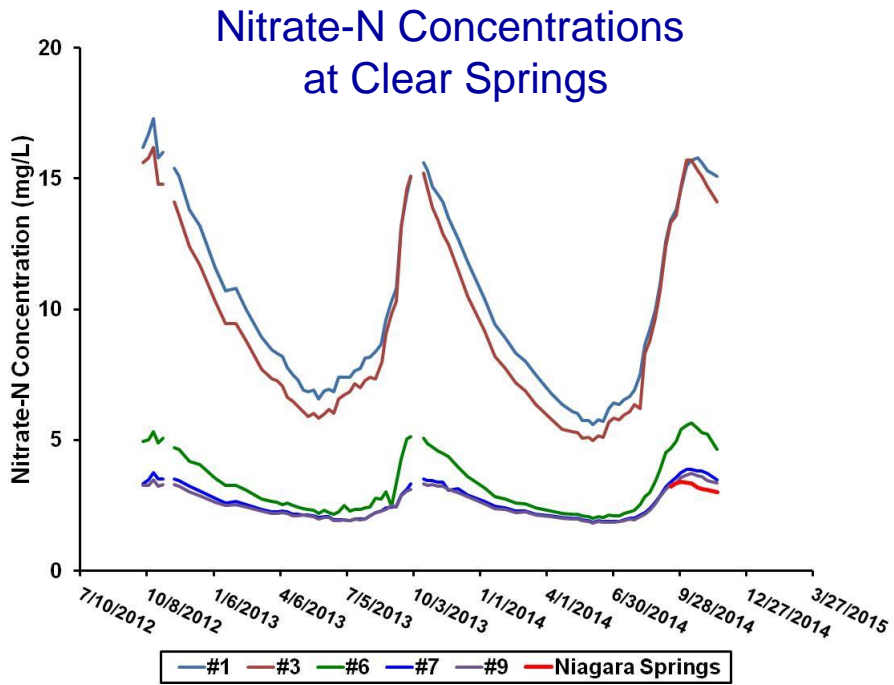
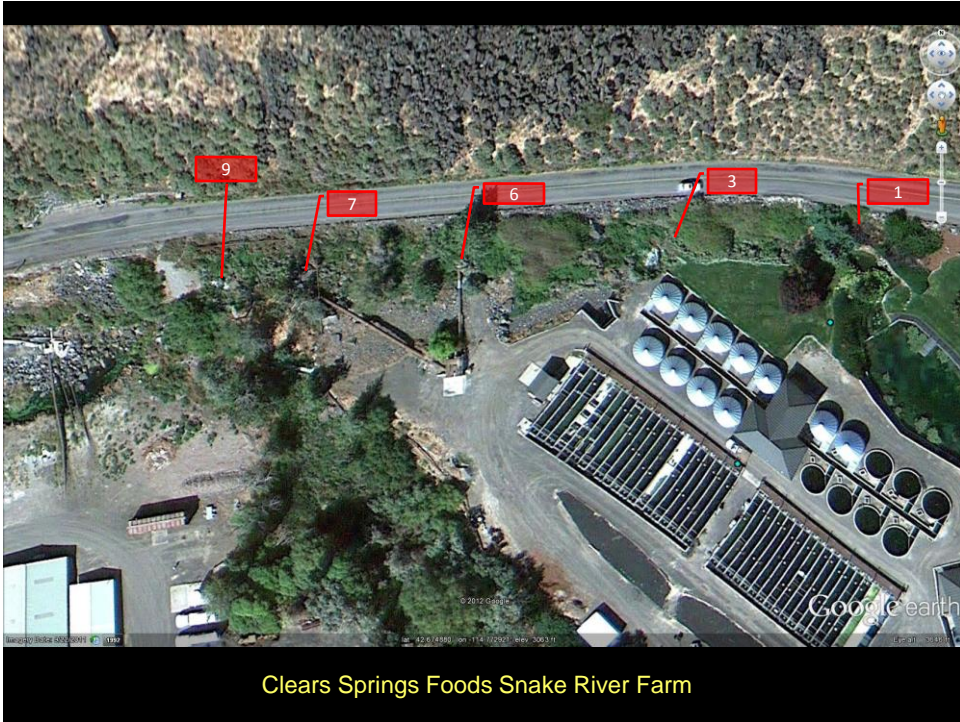
University of Idaho
Extension



Median Nitrate-N Concentrations In TFCC return flow

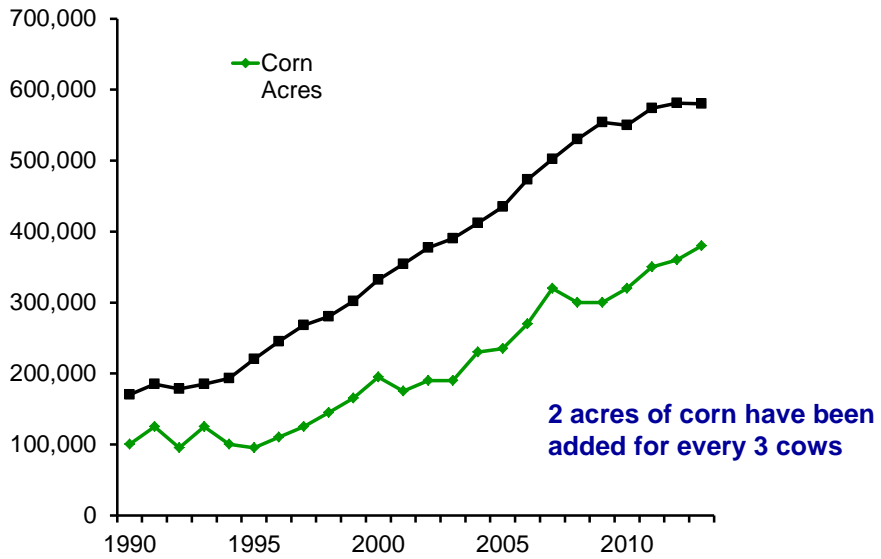








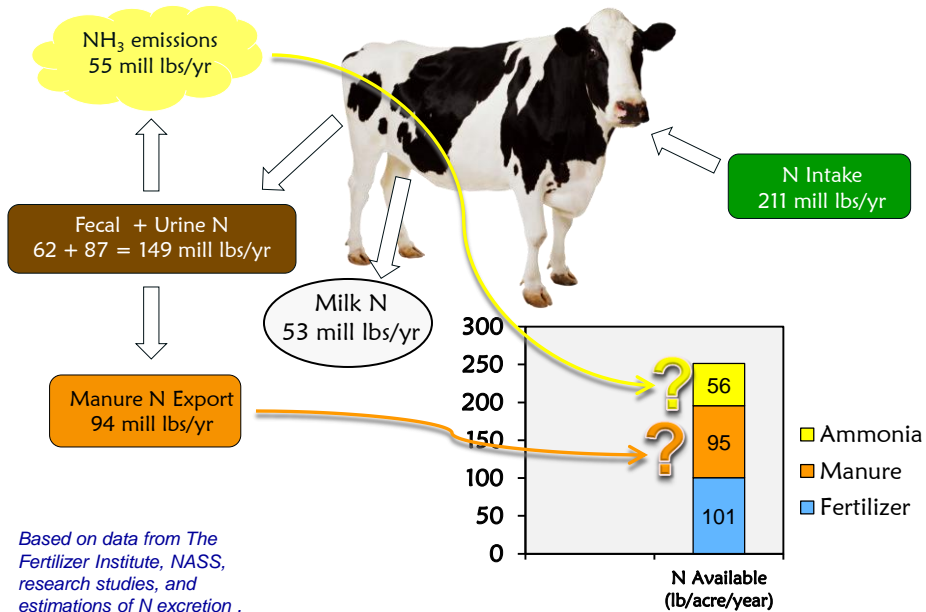
Corn and Dairy Cattle in Idaho



Dairies & Cropland in the Magic Valley

- 390,000 milk cows require
 - 5000 to 6000 acres of pens (600 ft²/cow)
 - ~900 acres of wastewater ponds (100 ft²/cow)
- 980,000 acres of harvested cropland

Magic Valley Dairy Nitrogen Budget



Soil Nitrogen (NO₃-N + NH₄-N) in 0-2 ft (lb/a)

	Fall 2012			Fall 2013	Spring 2014
2012		2013	Fertilizer		
Crop*		Crop	(lb N/a)		
Corn	142	Barley	120	146	117
Corn	142	Fallow	0	241	277
Corn	142	Camelina	50	184	196

* Applied 185 lb/a N in spring 2012 for corn.