

INCREASE PROFIT: DECREASE N LEACHING!!!

Adjust Livestock Practices

Cabrera MAIN MENU

NITROGEN | SOIL | CROP | CLIMATE | ECONOMICS | OPTIMIZE

Number of Cows: 3000 (Head) Adult Productive Group
 Number of Bulls: 120 (Head) Reproductive Bulls
 Percent Heifers Raised: 100 0%=Not Raised, 100%=All Raised
 Rolling Herd Average: 20000 (lbs) 12-month Production/Cow
 Percent Seasonality: 100 0%=The Least, 100%=The Greatest
 Amount Crude Protein: high NRC Standards (low=13.9, high=15.0)
 Annual Confined Time: 80 % Time Spent on Concrete Monthly
 Concentrated Areas: 0 % Time Spent in Concentrated Areas

Note: Highlighted cells are more important

FEED (lbs)	
CP	high
4,390,951	91,854

Default

View: GRAPHS MAIN RUN

Select Crops

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Area: 91.714
 CROPS: SPRAYFIELD PASTURELAND DELETE
 SEASON: SUMMER SUMMER/FALL FALL/WINTER DELETE all
 CROPS: SORGHUM RYE ENTER

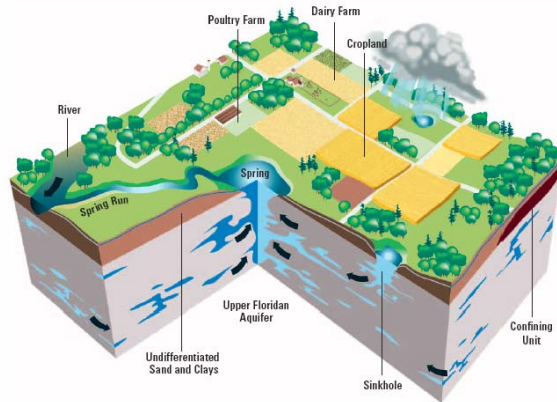
FIELD	AREA	TYPE	SPRING	SUMMER	WINTER
1	91.714	SPRAYFIELD	CORN	SORGHUM	RYE
2	183.43	SPRAYFIELD	CORN	MILLET	RYEGRASS
3	91.714	SPRAYFIELD	SORGHUM	MILLET	WHEAT
4	183.43	SPRAYFIELD	BAHIAGRASS	BAHIAGRASS	OATS
5	91.714	SPRAYFIELD	MILLET	SORGHUM	RYE
6	272.5	PASTURELAND	BAHIAGRASS	BAHIAGRASS	RYE
7	136.25	PASTURELAND	BERMUDAGRASS	BERMUDAGRASS	RYEGRASS
8	272.5	PASTURELAND	BAHIAGRASS	BAHIAGRASS	WHEAT
9	136.25	PASTURELAND	BERMUDAGRASS	BERMUDAGRASS	OATS
10	272.5	PASTURELAND	BAHIAGRASS	BAHIAGRASS	RYE

Note: If these do not represent your farm, DELETE all. Then, describe your farm field by field, clicking ENTER after defining each field to populate the table.

Default

Select Farm Size: -MAKE A CHOICE- View: GRAPHS MAIN RUN

Manage Feed Quality



Control Nutrient Waste

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PERCENT N LOST FROM WASTE SYSTEMS

Percent Lost Flushing	2.38	% Volatilized During Flushing
Percent in Solids	6.5	% Removed With Solids
Percent Lost Holding	9.21	% Volatilized in Storage Pond
Percent in Sludge	5.74	% Fixed in Pond Sludge
Percent Lost Spraying	16.17	% Volatilized During Application
TOTAL N LOST	40	% N LOST IN WASTE SYSTEM
Lost From Soil	30	% Volatilized From Soil

WATER

Maximum amount: 171.05 (Gallons/Head/Day) Maximum Observed
 Percent Recycled: 0 % of Water Return to Facilities

PASTURELAND

Lost From Soil: 40 % Volatilized From Soil

Default

Select Farm Size: -MAKE A CHOICE- View: GRAPHS MAIN RUN

Anticipate Climate

DyNoFlo-Victor E. Cabrera MAIN MENU

START | LIVESTOCK | NITROGEN | SOIL | CROP | CLIMATE | ECONOMICS | OPTIMIZE

SIMULATION

Starting Date: October of 2004 Number of Runs: 4

ENSO PHASE

Start Year: 2004

43-yr Average
 NIÑA
 NEUTRAL
 NIÑO

RUN	OCTOBER	to	SEPTEMBER	ENSO PHASE	ENSO ?
1	2004		2005	NIÑA	
2	2005		2006	NEUTRAL	
3	2006		2007	NIÑO	
4	2007		2008	43-yr Average	

Note: If these are not the ENSO phases you want to run, DELETE all and select number of phases (runs). Then, select each desired ENSO phase and click ENTER to populate the table.

Default

Select Farm Size: -MAKE A CHOICE- View: GRAPHS MAIN RUN



DyNoFlo: Dynamic North Florida Dairy Farm Model
Victor E. Cabrera, University of Miami, <http://plaza.ufl.edu/vcabrera>