

Initial Contact Questionnaire - 2008
HORT 423 - Tropical Horticulture

NAME:

Telephone number: or cell address:

ADDRESS:

FUTURE JOB INTEREST
FIELD (optional):

TYPE OF WORK (Growth, Research, Teaching, etc):

COURSE TAKEN

Number	Semester	Year
2007 423 Hort Horticulture	Spring	2007 423 Hort Horticulture
2007 423 Hort Horticulture	Fall	2007 423 Hort Horticulture
2007 423 Hort Horticulture	Spring	2007 423 Hort Horticulture
2007 423 Hort Horticulture	Fall	2007 423 Hort Horticulture

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Course materials

- Reference books
 - List is being developed
- Home Page
 - Under development
 - Lecture powerpoint presentations
 - Supplemental readings
 - Links for topics/crops etc.

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HORT 423 - Tropical Horticulture - FALL, 2008
Course Schedule


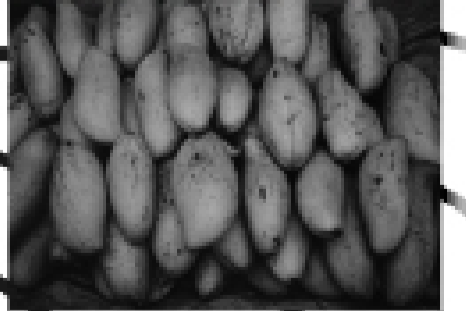
Instructor: David H. Byrne
HF5B 418, 860-3072, Email: d-byrne@tamu.edu

Millie Burrell
HF5B 429, Email: millieburrell@tamu.edu
HF5B 101, MW 5:15 - 6:30 pm

Lecture #	Date	Topic
1	Sept. 1	Course Overview and Introduction to the Tropics
2	Sept. 8	Tropical Climates, Soils and Agro-ecosystems
3	Sept. 9	Beverage Crops: Coffee
4	Sept. 10	Coffee
5	Sept. 15	Tea



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6	Sept. 17	Fruits and their importance in tropical horticulture
7	Sept. 22	Musa: Banana and plantain
8	Sept. 24	Other banana and plantain
9	Sept. 29	Pineapple
10	Oct. 1	EXAM
11	Oct. 6	Papaya and Mango
12	Oct. 8	Sapodilla, Breadfruit, and Jackfruit
13	Oct. 13	Tamarind, Sapote, Guava, and Guaranana (Annona species)
14	Oct. 15	Passiflora, Guava, Monocotone, and Durian



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15	Oct. 20	Other Crops: Cashews and Brazil nuts
16	Oct. 22	Macadamia
17	Oct. 27	Palm, Date and Coconut
18	Oct. 29	African oil palm
19	Nov. 3	Rubber and Neem
20	Nov. 5	Root crops: Cassava
21	Nov. 10	EXAM
22	Nov. 12	Yam, Taro, and Jicama
23	Nov. 17	Vegetable Crops: Amaranth, Vegetable Soybean, Mung bean

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24	Nov. 13	Spices: Vanilla production, Cinnamon
25	Nov. 24	Pepper, All spices
26	Nov. 26	Nutmeg and Cloves
THANKSGIVING BREAK		
27	Dec. 1	Legume crop: Pigeon peas
28	Dec. 2	Chicken peas and Black beans
READING DAYS		
30	Dec. 16	FINAL EXAM:

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Grading:		
A Exam	20%	200 points
B Exam	20%	200 points
Weekly homework	12 1/2%	120 points
Class demonstration	3%	30 points
Final Exam	20%	200 points
Paper	25%	250 points
TOTAL	100%	1000 points

- **Weekly Homework**
 - 3 questions with answers
 - Previous week lectures
 - Multiple choice or short answer
 - 15 points each
 - 120 total points + 30 extra points
 - Graded and compiled for class

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Final Exam	20%	200 points
Paper	25%	250 points
TOTAL	100%	1000 points

- **Class Demonstration**
 - Tropical
 - Plant
 - Plant part (root, tuber, stem, fruit, seed, etc.)
 - Plant product
 - Need to fill out **Demonstration Sheet**
 - 30 points, need to schedule and get approval
 - Can do one additional one for 30 extra points

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Class Demonstration Sheet

Name of the plant: _____
Common Name: _____



Describe the Color of Color and Dimension: _____

Use sample: _____

Use of plant: _____

Use: _____

Reference: _____

Date: _____

Name: _____
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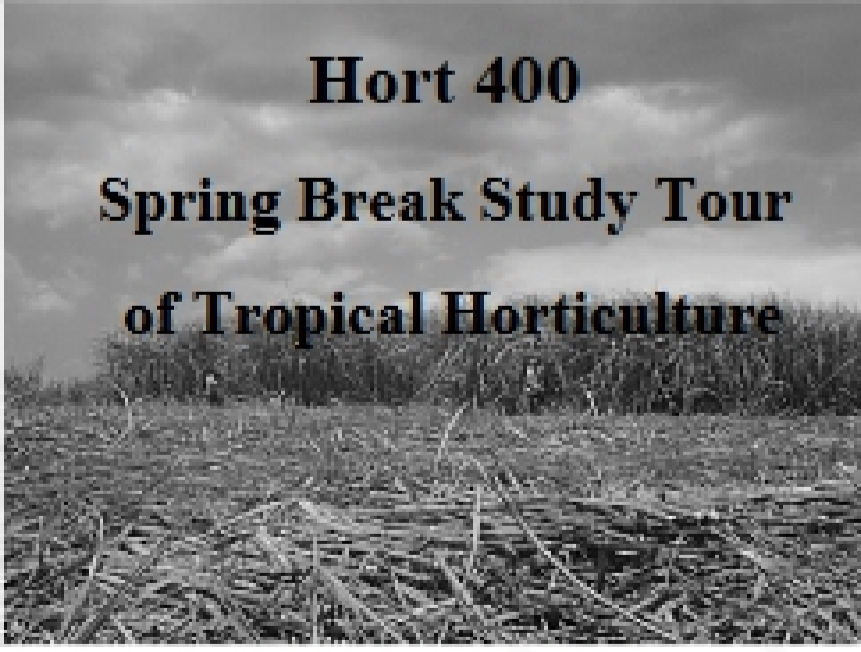
Grading of the paper will follow:		
TASK	Points	Due dates
Initial topic choice - typed title with short outline	10	Sept. 17
Detailed outline - with your list of references	20	Oct. 22
Powerpoint presentation - digital/printed	50	Nov. 12
Final written paper - digital/printed	170	Dec. 5
Total points	250	

- **Requirements of paper**
 - References
 - Minimum of 3 from internet and 3 from scientific literature
 - Length, 7-20 pages
 - Format, follow ASHS guidelines for Feature article
- **Extra credit, 4-7 oral presentation of topic**

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Hort 400

Spring Break Study Tour of Tropical Horticulture



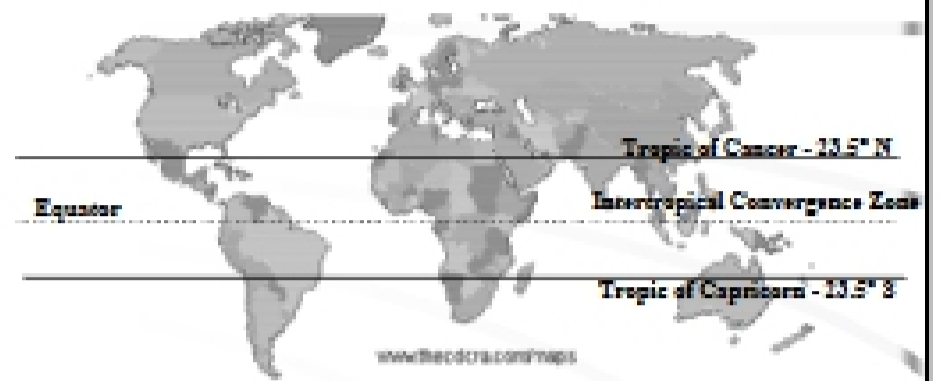
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Any Questions?



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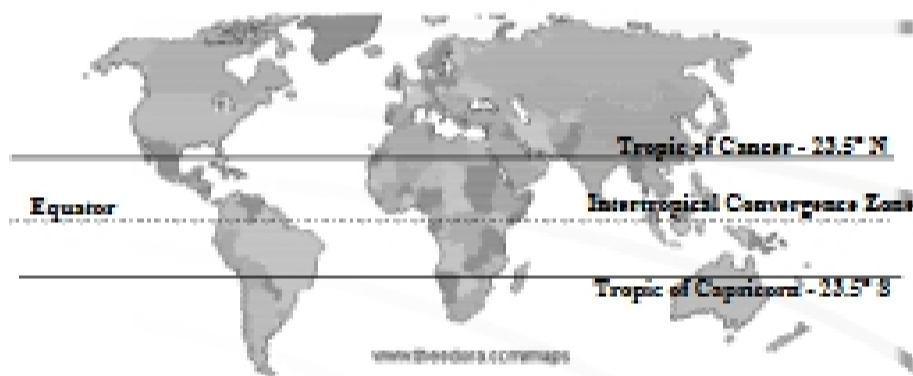
What is the Tropics?



- Land area that is defined by position of the sun
- Highest latitude where sun is directly overhead

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What is the Tropics?



- 38 % land mass is in the Tropical Zone

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Land Use in the Tropics

(area in Mha)

Region	% land area	Arable crops	Perennial crops	Pasture	Woodlands
World	100	1373	102	3212	4040
Developed	42	652	22	1250	1367
Developing Not tropical	20	233	22	704	277
Tropical	38	488	58	1168	1905

Data from Webster and Wilson, 1998, Table 1.1

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Land (%) Suitable for Rain-fed Agriculture

Region	Suitable land	Marginally suitable	Land cultivated
Africa (see South Africa)	27%	3%	6%
Southeast Asia	33%	25%	31%
Central America	27%	6%	14%
South America	46%	3%	3%

Data from Webster and Wilson, 1998, Table 1.1

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Land Use in the Tropics

Region	% land area	Cereal yield (t/ha)	Fertilizer use (Kg/ha)	% Increase in fertilizer use
Developed world	42	3.0		
Tropical	38	1.8	27.3	(123%)
Africa	17	1.0	2.7	(52%)
Asia	8	2.1	46.5	(113%)
Americas	12	2.1	19.9	(40%)

Data from Webster and Wilson, 1998

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