



WELCOME TO

**SISAKET HORTICULTURAL
RESEARCH CENTER**

HORTICULTURE RESEARCH INSTITUTE
DEPARTMENT OF AGRICULTURE



Sisaket Horticultural Research Center
Muang Si Sa Ket District Si Sa ket Thailand 33000

Area base : 1,092 Rai (170 Hectare)

Responsibilities

- ❖ **To solve horticulture problems locally and nationally**
- ❖ **To undertake special government projects**
- ❖ **To work collaboratively with international organizations**

Crops Involved

Tree crops : papaya, mango, cashew nut, sour tamarind, durian, rambutan, grape, pomegranate, oil palm

Vegetables : chilli, tomato, shallot, pumpkin, sweet potato, roselle

Flowers : Chrysanthemum, jasmine, orchids

Others : Germplasm collection of tropical fruits, vegetables, wild orchids

STAFF

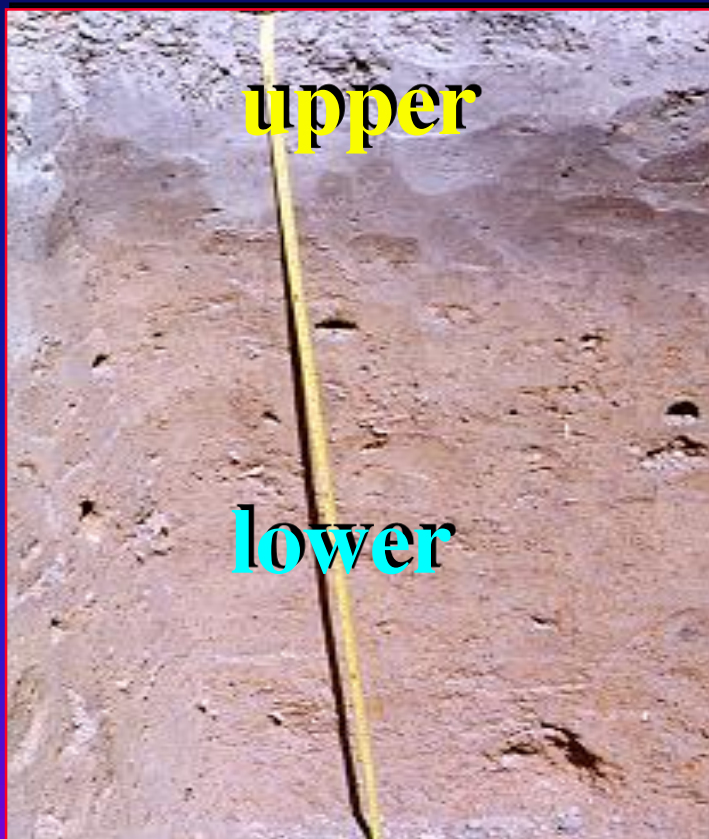
OFFICERS	17
PERMANENT EMPLOYEES	9
CASUAL EMPLOYEES (group 1)	27
CASUAL EMPLOYEES (group 2)	92
TEMPORARY EMPLOYEES	40

Soil Status and Water Resources

❖ *'Satuk'* and *'Korat'* types

❖ *'Nongchee'*

Reservoir 400,000 m³



METEOROLOGICAL DATA

(10 year average)

- **Mean Max Temp** **32.7 C**
- **Mean Min Temp** **22.3 C**
- **Mean Max RH** **93%**
- **Mean Min RH** **49%**
- **Mean Evaporation** **5.3 mm./month**
- **Annual rainfall** **1,387 mm**



HIGHLIGHT OF OUTPUTS

- ❖ **RECOMMENDED & CERTIFIED VARIETIES**
- ❖ **IMPROVED PRODUCTION TECHNOLOGY**
- ❖ **PRODUCTION & DISTRIBUTION OF GOOD
PLANTING MATERIALS**
- ❖ **TECHNOLOGY TRANSFER THROUGH
TRAINING COURSES AND PUBLICATION**

RECOMMENDED & CERTIFIED VARIETIES

- ❖ PAPAYA
- ❖ MANGO
- ❖ SOUR TAMARIND
- ❖ TOMATO
- ❖ CHILLI
- ❖ CASHEW NUT



'Khaeg Dam Sisaket'



- Yield 52 kg/tree/year
- Fruit weight 1.28 kg



- Red flesh when ripe
- 13° Brix
- Consume when green, ripe and processed

'SK 007' Kaew Mango



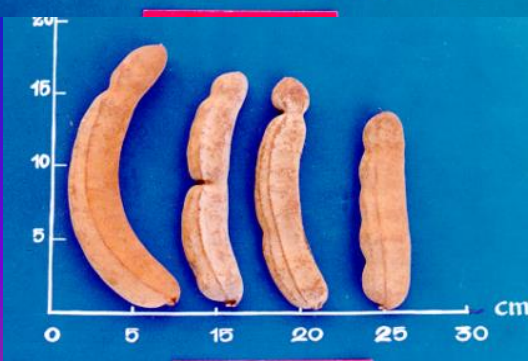
❖ **Yield** 65.4 kg/tree

❖ **Fruit weight** 252 g

❖ **Flesh** 81%



'SK 019' Tamarind



- ◆ Yield 13.3 kg/tree/year
higher than mean of 29 clones
60.2%
- ◆ Straight and large pod 55 pods/kg
- ◆ Edible proportion 46.2%
- ◆ Tartaric acid 17%

'SK 60-1'

cashew nut



❖ Yield (8-10 years old)

9.8 kg/tree

❖ Seed weight 6.29 g

❖ Kernel standard grade 3

‘SK 60-2’ cashew nut



❖ **Yield (8-10 years old)
7.5 kg/tree**

❖ **Seed weight 7.20 g**

❖ **Kernel standard grade 3**



Tomato 'SK 1'



- ▶ **Yield 18-20 ton/ha**
- ▶ **Harvested at 55-60 days after planting**
- ▶ **Thick skin**

Tomato 'SK 19'



- ▶ **Fruit width 2 cm**
long 3.5 cm
- ▶ **Harvested at 55-60 days**
after planting
- ▶ **Suitable in rainy season**
- ▶ **Yield rainy 8.8 ton/ha**
winter 29 ton/ha

'Hue Siton SK 1'



- **Yield 6.5-15 ton/ha**
- **Dehydrated yield of 43% of fresh weight**
- **Red and smooth skin when dried**

Hue Rua SK 13



- ❖ Yield 10.9 ton/ha
- ❖ Dehydrated yield 2.98 ton/ha
- ❖ Total fruit 241 fruits/tree
- ❖ Fresh fruit 545.1 g/tree

Hue Rua SK 25



- ❖ Yield 10.6 ton/ha
- ❖ Dehydrated yield 3.0 ton/ha
- ❖ Total fruit 252 fruits/tree
- ❖ Fresh fruit 530.2 g/tree

Jasmine 'CHUM PORN 4'



CHUM PORN 4 :

Winter yield 1.4 kg/rai/day

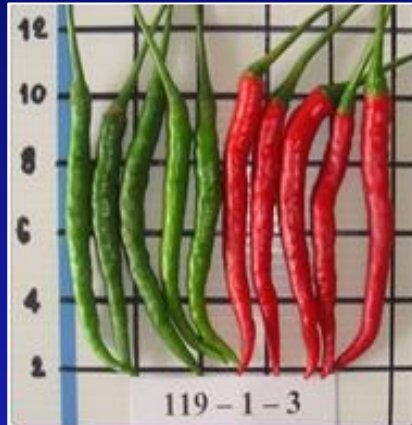
Winter yield 4.6 kg/rai/day

COMPARATIVE CLONE :

Winter yield 0.8 kg/rai/day

Normal 3.2 kg/rai/day

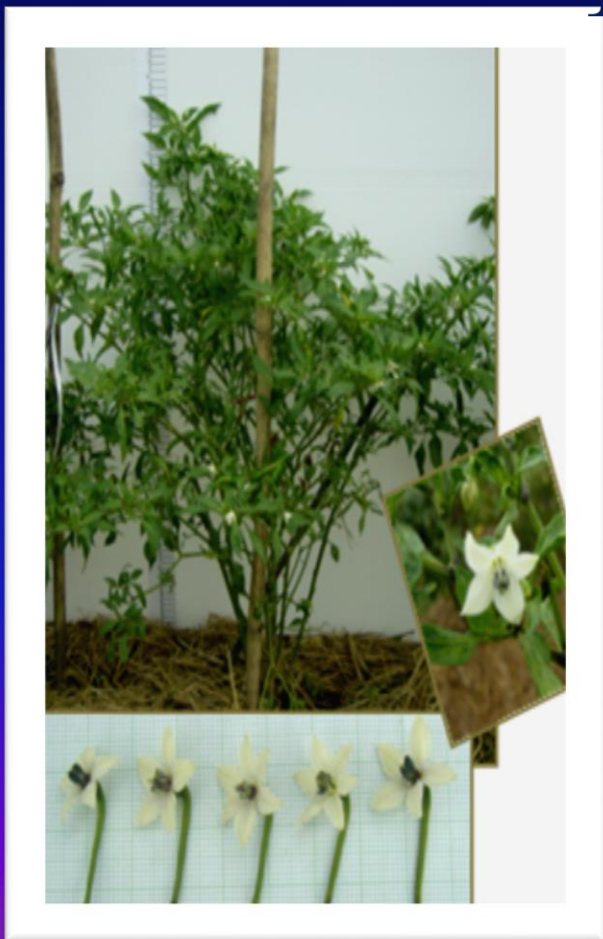
New recommended varieties



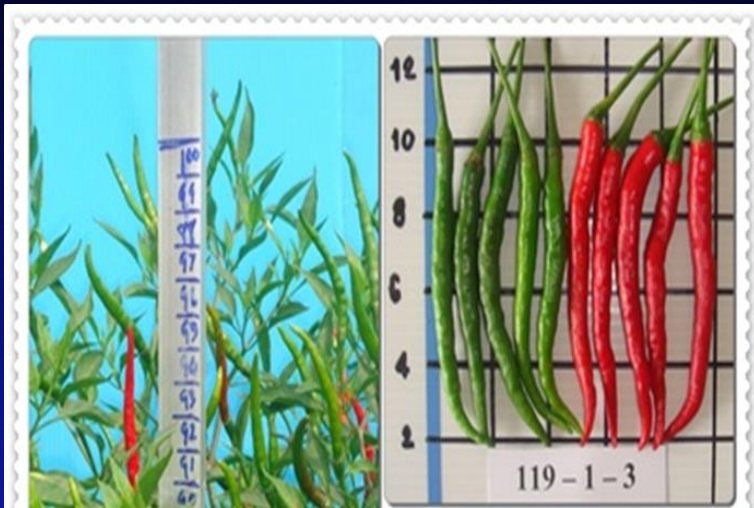
Chilli 'Jinda SK 84'

Yield : Fresh 11.8 ton/ha

Dehydrated 3.3 ton/ha



Chilli 'Yodson SK 119-1-3'



Yield :

Fresh 9.7-13.2 ton/ha

Dehydrated 2.3-4.3 ton/ha

Chilli 'Yodson SK 165-1-1'

Yield :

Fresh 8.4-12.5 ton/ha

Dehydrated 2-3.4 ton/ha



Bird Chilli 'Loei SK 59-1-2'



Yield :

Fresh 9.8 ton/ha

Dehydrated 1.8 ton/ha

Bird Chilli 'Loei SK 40-2-2'



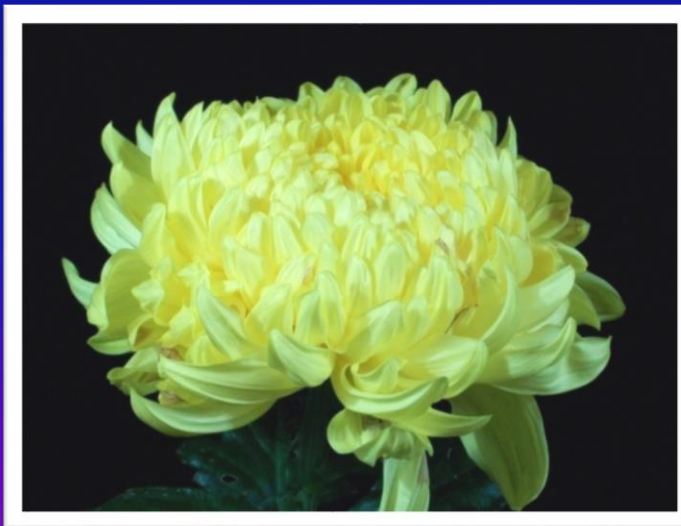
Yield :

Fresh 10 ton/ha

Dehydrated 1.9 ton/ha

○ Doritis 'hybrid'

○ Chrysanthemum
(heat tolerance)



Seed production & plant material multiplication

1. Papaya	50	kg
2. Chili	100	kg
3. Tomato 'Si-da'	10	kg
4. Egg plant	10	kg
5. Yard long bean	200	kg
6. Morning glory	200	kg
7. Cockroach berry (มะเขือเปราะ)	10	kg
8. Sweet basil(โหระพา)	10	kg
9. Holy basil (กระเพรา)	10	kg
10. Lemon basil(แมงลัก)	10	kg

1. Cashew nut	10,000	pt.
2. Tamarind	2,000	pt.
3. Lime	3,000	pt.
4. Local veg.	3,000	pt.





ศูนย์วิจัยพืชสวนศรีสะเกษ
สถานีวิจัยพืชสวน มหาวิทยาลัยเกษตรศาสตร์

Thank You