

Rural Training Center – Thailand (RTC-TH)

FOCUS



REEEPP

**Rural Environmental Education
Enhancement Pilot Program**



Sorting Longan



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G.K Lee & S. Lee

Created by G.K. Lee for the RTC-TH REEEPP



This is an English Language Training module of **REEEPP**

Rural Environmental Education Enhancement Pilot Program
presented by

The Rural Training Center-Thailand

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What is “longan”?

Dimocarpus longan Lour.

“Dragon Eye”

Size varies from 1.25 cm to 2.5 cm



Basic Longan Facts

It takes about 4 years for Longan trees to get established and be productive.

Age	1-4 yrs	5 yrs	7 yrs	10 yrs	15-25 yrs	35 yrs
Kg/tree	---	2-5	20	60	100-190	decreases

When trees are 12-15 yrs old, expect that every 3 years there will be 1 poor year, 1 fair year, 1 excellent year

An orchard can have a productive life of about 11-21 years once it is established.

The price of fruit varies each year by overall availability, size, quality, and other market conditions. When trees are 12-15 years old, variable productivity can significantly affect income.



Longan Season Relative to Northern Thailand Climate

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Tropical Cyclones	-	-	-	-	5	2	9	17	23	15	1	-	72
Thawangpha Rainfall (mm)	11.0	12.6	29.2	108.0	206.2	202.4	244.1	302.3	175.6	80.4	22.7	5.9	1400.04
Seasons	Winter		Summer			Rainy (SW Monsoon)					Winter (NE Monsoon)		
Ave Temp	23.1°C		28.0°C			27.3°C					23.1°C		
Temp Range	17.1-30.8°C		21.4-35.8°C			23.7-32.2°C					17.1-30.8°C		
Ext Temp	0.8°C		44.5°C								0.8°C		
Rainfall (mm)	105.5		182.5			952.1					105.5		
Longan season	Blossoms					Harvest							

Longan can blossom from late December to late February. Harvesting can occur from late June to late August.



Longan blossoms about late December to late February



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The flowers must be pollinated in order to get any fruit.



The main
pollinator of our
Longan is a
small, black,
stingless bee.



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This lesson is about how a machine sorts Longan by size.



We have longan on our farm.



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The fruit begins to ripen in summer.



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There is so much fruit the branches bend down low.



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Buyers come to pick the fruit.



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They cut the branches with fruit.



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They remove the leaves.



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The larger fruit are worth more.



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Some farmers pick their own fruit.



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They bring it to sell at a processing plant.



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They back their truck into position.



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This makes it easier to unload.



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A machine sorts the fruit by size.



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The fruit is packed by size.



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Empty bins are put in position.



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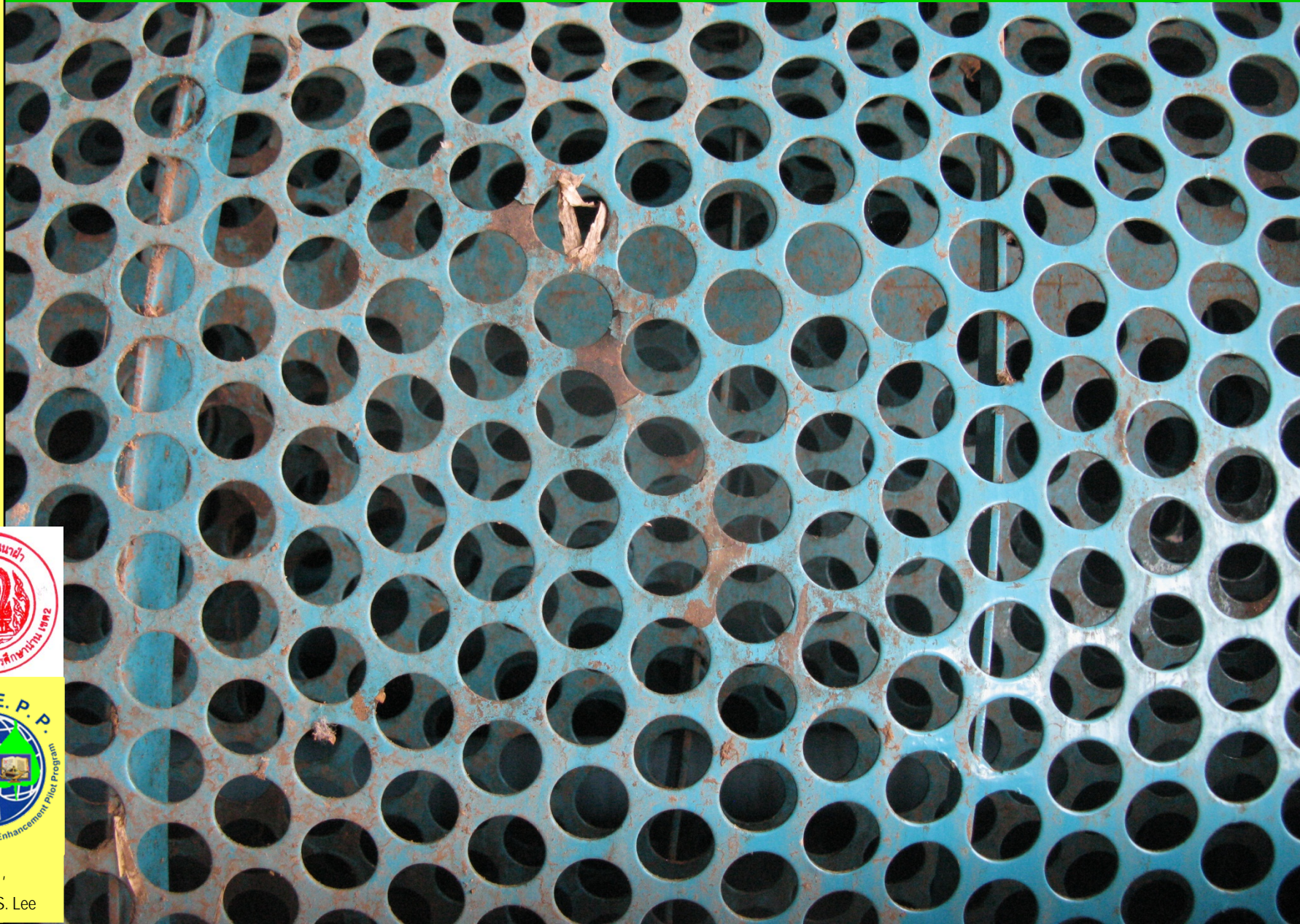
The machine sorts the fruit by size.



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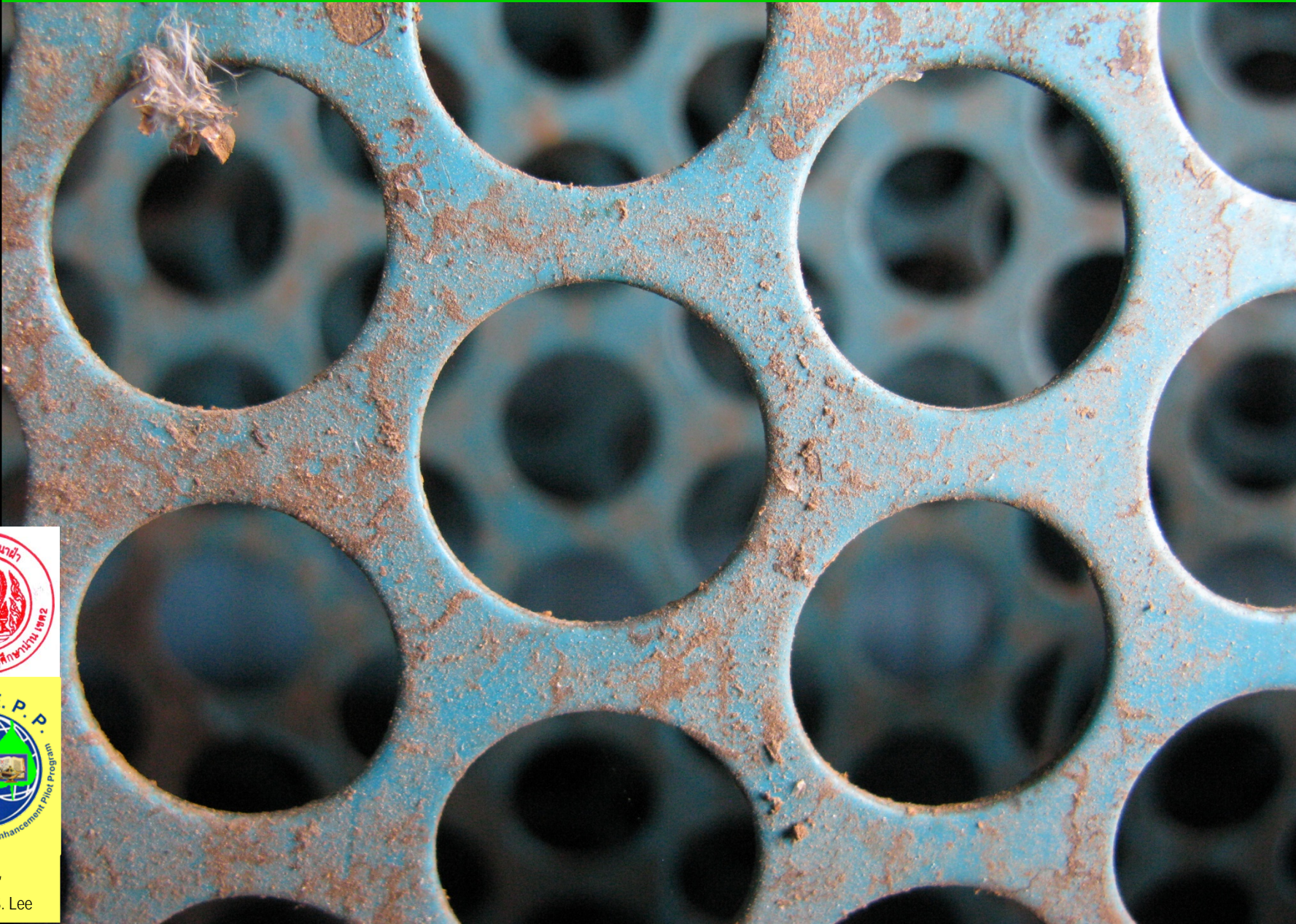
A series of screens sort the fruit.



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There are 4 different sized screens.



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AA is the
largest
(~2.5 cm
and larger)
and is worth
more.



A is the
next smaller
size



B is a
medium size
fruit.



C is the
smallest
(~1.25 cm)
and is the
smallest
acceptable
size



The fruit is put into the sorting machine.



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The fruit is put into the hopper.



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When the hopper is full, you must wait.



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The men must wait for the machine.



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This is a
good time
for a snack!



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When a bin is full, it is weighed.



The bins are grouped by size.



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These bins will be loaded on a truck.



Farmers get paid for their fruit.



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The RTC-TH was created to honor the memory of Mr. Tang Suttisan, a father, a farmer, and a man who valued education and used it in starting his family farm applying the King's Theory.



REEEPP

Rural Environmental Education Enhancement Pilot Program

An innovative, non-traditional community-based environmental education program integrating math, science, geography, English language, and technology lessons for environmental stewardship using interactive experiential learning in outdoor settings at Ban Na Fa Elementary School, Nan Province, Thailand..



The End



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