



RAMBUTAN PRODUCTION



Rambutan grows best in deep, well-drained sandy loam or clay loam soils with high organic matter. The soil pH preferably ranges from 4.5 to 6.5. It favors hot regions with temperature of 22°C to 30°C with rainfall evenly distributed throughout the year. It grows well at an altitude of up to 500 meters.

VARIETIES/SELECTION

Variety	Origin	Weight	% Edible Portion	TSS
1. Maharlika	Indonesia	33.22 g	46	19%
2. DES-1554	Thailand	35 g	49	18%
3. DES-1548	Local	27 g	37	18%
4. Seematjan	Selection	38 g	43	19%
5. DES-001	Indonesia	26 g	36	20%
6. Queen Sirikit	Local	37 g	48	16%
7. DES-1550	Selection	30 g	49	16%
8. Rong Rein	Thailand	35 g	49	16%
9. DES-1551	Thailand	30 g	52	19%
10. Sri-Chompoo	Thailand	33 g	49	16%

PREPARATION OF PLANTING MATERIALS

1. Select well-developed seeds from mature/ripe fruits of the recommended varieties/selection.
2. Remove mucilage from the seeds by rubbing them with fine sawdust, ash or old newspaper.
3. Germinate the seeds immediately after extraction in light loamy soils or in germination beds made up of sawdust.
4. Germinated seedlings should be ready for potting in 24 days after sowing or 10 days after germination in 15cm x 20cm perforated plastic bags containing garden soil and place them in nursery shed.
5. Water them immediately after planting in polyethylene bags. Then water every 2-3 days as the need arises.
6. The rootstocks would be ready for asexual propagation in 8-12 months; then 6 months from grafting, it would be ready for field planting.

LAND PREPARATION

1. Clear/Underbrush and remove all stumps.
2. Plow and harrow thoroughly to loosen the soil.
3. Stake at distance of 8-10 meters between hills and 8-10 meters between rows. Prepare holes 30 centimeters in diameter at a depth of 30cm.

PLANTING

1. Remove the plastic bag and plant the seedling into the prepared hole without breaking the ball of soil.
2. Cover the hole with topsoil and press gently.

MAINTENANCE

1. Provide shade to the newly planted rambutan seedlings for a period of two weeks to a few months depending on weather condition to enable the plant to recover from transplanting shock and to shade it from strong sunlight.
2. Apply basally, 60 grams (6 tbsp.) of complete fertilizer (14-14-14) or based on soil analysis and cover with thin layer of soil. The rate of application increases, as the tree grows bigger.
3. Ringweed quarterly or as the need arises.

FERTILIZATION SCHEDULE

Fertilizer	2 nd Year	3 rd Year	4 th Year
Complete (14-14-14)	200 g/tree	300 g/tree	400 g/tree

HARVESTING

Harvest rambutan when skin is pinkish red.

Rambutan fruits do not ripen at the same time even within a bunch and this necessitates harvesting by priming. Harvesting schedules in a moderately sized orchard (200-300 trees) are three times a week during the height of the season.

INSECT PESTS, DISEASES AND THEIR CONTROL

	Plant Part/Stage of Growth	Control Measures
A. <u>Insect Pests</u>		
1. Fruit Borer (Cacao Pod Borer)	Fruits	- Spray Decis, Gusacarb, Gusathion or Kafil
2. Mealybugs	Fruits & shoots	- Spray w/ Malathion, Roxion
3. Twig Borer	Twigs	- Prune infested twig & burn
B. <u>Diseases</u>		
1. Powdery Mildew	Inflorescence, shoots, fruits, seedlings	- Spray w/ Fungitox, Benlate, Bayleton
2. Damping-off	Seedlings	- Spray w/ Benlate
3. Leaf spot	Leaves	- Spray w/ common fungicides

NUTRITIONAL INFORMATION

COMPONENTS	Per 100 g Edible Portion
Food Energy	59.0 calories
Moisture	84.7 g
Protein	0.7 g
Fat	0.1 g
Carbohydrate	13.9 g
Fibre	0.3 g
Ash	0.3 g
Calcium	22.0 mg
Phosphorous	30.0 mg
Iron	2.5 mg
Niacin	0.1 mg
Vitamin C	38.6 mg

TEN-YEAR ESTIMATED COST AND RETURN OF ONE-HECTARE RAMBUTAN ORCHARD

COST AND RETURN PER HECTARE PER YEAR (P)										
	1	2	3	4	5	6	7	8	9	10
Yield (kgs)	-	-	233	1,452	2,671	3,890	5,109	6,328	7,547	8,766
Gross Return (P)	-	-	3,495	21,780	40,065	58,350	76,635	94,920	113,205	131,490
Cumulative	-	-	3,495	25,275	65,340	123,690	200,325	295,245	408,450	539,940
Production cost (P)										
A. Establishment	19,300									
B. Care & Maintenance	1,300	1,800	5,400	5,800	6,100	7,000	7,100	7,500	8,700	9,100
C. Harvesting & Post Harvest Handling	-	-	900	1,900	3,500	4,200	4,800	5,500	6,100	6,600
Total Production Cost (P)	20,600	1,800	6,300	7,700	9,600	11,200	11,900	13,000	14,800	15,700
Cumulative Production Cost	20,600	22,400	28,700	36,400	46,000	57,200	69,100	82,100	96,900	112,600
Net Return (P)	(20,600)	(1,800)	(2,805)	14,080	30,465	47,150	64,735	81,920	96,405	115,790
Cumulative	(20,600)	(22,400)	(25,205)	(11,125)	19,340	66,490	131,225	213,145	311,550	427,340

Disclaimer:

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References: DIS Techno-guide Series No. 02-3 2003.
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