

Fruitcrops Parameters and Fruiting Season

Crop	Planting Density	Yield		Fruits Per kilo	Bearing Age	Fruiting Season											
		Qty	Unit			kilos	J	F	M	A	M	J	J	A	S	O	N
MAJOR:																	
Banana	400	1-6	bunches			10-12 m	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Bongolan				79													
Cavendish				180													
Lacatan				88													
Latundan				58													
Saba				122													
Calamansi	400-625	0.1-2	kaing	4.4 - 88	40-50	6						✓	✓	✓			
Mango	51-100	20-3T	fruits			10				✓	✓	✓	✓				
Carabao				750	3-5												
Piko				600	4-5												
Pineapple	28572	8T-12T	fruits	8.9T - 28.4T		12-18 m			✓	✓	✓	✓					
Minor Priority Fruits:																	
				7.2T - 54T													
Balimbing	277	20-900	fruits	100		4-5			✓	✓	✓	✓	✓	✓	✓	✓	✓
Durian	100	10-500	fruits	500		4-5						✓	✓	✓	✓	✓	
Lanzones	400	2-100	kilos	2-100	60-80	12-20		✓	✓	✓	✓						
Mangosteen	156	100-600	fruits	100	5-6	10					✓	✓	✓	✓	✓	✓	✓
Papaya	1.1T-2.5T	5-60	fruits			6-9 m	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Hawaiian				156													
Native				39													
Rambutan	100-156	200-300	fruits	50		5-6					✓	✓	✓	✓			
Tamarind	40-70	1-15	kaing	525		3-4				✓	✓	✓	✓	✓	✓	✓	✓
Watermelon	2T-3T	3T-10T	fruits	6.9T - 30T													
Mandarin	160-280	20-1,000	fruits	125	8-9/4-5	5	✓						✓	✓		✓	✓
Orange	120-200	10-600	fruits	100	5-6/3-7	3-4	✓	✓								✓	✓
Other Minor Fruits:																	
Avocado	123	500-600	fruits	360	3-5	4-5					✓	✓	✓	✓			
Guava	277	7.5-20	kilos	7.5-20		4-6										✓	✓
Native																	
Guapple	600-625																
Guayabano	400	12-24	fruits	38.4		3-5					✓	✓					
Jackfruit	100	20-500	fruits	1500		7					✓	✓					
Melon	2T-3T	3T-12T	fruits														
Santol	69	150-300	fruits		5	5-7					✓	✓	✓	✓			
Starapple	156	1000	fruits	275	7-10	5-6	✓	✓	✓	✓							✓
Pomelo	100-156	5-400	fruits	450		4-5	✓									✓	✓
MINOR FRUITS:																	
Atis	625	40-75	fruits	30	8-15	3-5							✓	✓	✓	✓	✓
Breadfruit	69	600-800	fruits	480		4-6	✓				✓	✓	✓	✓	✓	✓	✓
Chico	156	500-2T	fruits	400	15-20	6-8				✓	✓	✓	✓	✓	✓		
Duhat	100			100/tree		7-8				✓	✓	✓					
Mabolo	51	10-800	fruits			6-7					✓	✓					
Marang	100	30-1,500	fruits			4-5					✓	✓	✓	✓	✓	✓	✓
Sineguelas	100-156	150-300	fruits	6	50-70	3											
Lime	204-280	10-500	fruits			3-4										✓	✓

**Non-Food and Industrial Crops
Validation Parameters**

Crop	Yield	Bearing Trees, Hills/ha
Abaca	450-1,900 kg./ha	625-1,100 hills/ha
Coconut	5-60 nuts/tree	100-160 trees/ha
Coffee		
<i>Arabica</i>	500-1000 kg of green beans/ha 1.85-3.70 kg of dried berries/tree 0.92-1.85 kg of dry beans/tree 0.50-1.00 kg.of green beans/tree	950-1,400 trees/ha
<i>Excelsa</i>	1,000 kg of green beans/ha 6.73-12.35 kg of dried berries/tree 3.37-6.17 kg of dry beans/tree 1.82-3.33 kg of green beans/tree	300-550 trees/ha
<i>Liberica</i>	1,000 kg of green beans/ha 6.73-12.35 kg of dried berries/tree 3.37-6.17 kg of dry beans/tree 1.82-3.33 kg of green beans/tree	300-550 trees/ha
<i>Robusta</i>	1,200 kg of green beans/ha 4.44-8.89 kg of dried berries/tree 2.22-4.44 kg of dry beans per tree 1.20-2.40 kg of green beans/tree	500-1000 trees/ha
Rubber	13.15 kg of cuplump/tree (3.4 -4 kg per bt)	160-280 trees/ha (500 trees per ha)
Sugarcane		
<i>Centifugal</i>	15-90 mt./ha	20,000-25,000 hills/ha
<i>Panocha</i>	12,600-91,000 canes/ha	20,000-25,000 hills/ha
<i>Basi/Vin.(Juice)</i>	3,000-9,000 lit./ha	20,000-25,000 hills/ha
Tobacco	400-1,600 kg/ha	14,000-20,000 hills/ha
<i>Virgina</i>	1,800-2,000 kg/ha	
<i>Native</i>	1,600-1,800 kg/ha	
<i>Others (burley)</i>	1,900-2,200 kg/ha	
Cacao	0.2-3 kg/tree	1,000 trees/ha
Cashew	93.75 kg/tree	70-160 trees/ha
Cotton		
<i>Old file</i>	200-800 kg/ha	10,000-12,500 hills/ha
<i>Series data</i>	200-3,000 kg./ha	10,000-12,500 hills/ha
Palm		
Oil Palm		
<i>Old file</i>	5-60 kg/tree	400-625 trees/ha
<i>New, internet</i>	125-300 kg/tree	143 trees/ha
Kaong	225 kg/tree	143 trees/ha
Pili Nut	5-60 kg/ha	60-70 trees/ha
Betel Nut	30-300 nuts/tree	1,000-1,500 trees/ha
Other Fibers		
<i>Jute</i>	2,500-3,000 kg/ha	
<i>Sisal</i>	2,000-3,500 kg/ha	
<i>Ramie</i>	800-1,400 kg/ha	40,000-45,000 hills/ha
<i>Maguey</i>	130-1,900 kg/ha	2,500-3,000 hills/ha
<i>Kapok</i>	100-2,000 kg/ha	204-280 trees/ha
Bromeliad/Euphorbia	* 51-120 mt/ha	

* with planting medium

I. CONVERSION TABLE FOR SELECTED AGRICULTURAL CROPS

A. FRUITS AND NUTS EXCEPT CITRUS:

1. SUGARAPPLE (ATIS)

Weight per fruit	85 - 425 grams
Average weight per fruit	255 grams
1 kilo	3 - 12 fruits
No. of fruits per kaing	150 - 350 fruits

2. AVOCADO

Weight per fruit	160 - 800 grams
Average weight per fruit	480 grams
Weight of fruits by variety:	
Pollock (Oboate to oblong pryiforms)	300 - 800 grams
Lyon (Oblong to pryiform to distinctly necked)	470 - 940 grams
Douglas (Oblong to pryiform to distinctly necked)	333 - 510 grams
Commodore (Oboate to pryiform)	160 - 420 grams
Cyrus (Oblong pryiform)	360 grams
Wester (Roundish oblate, oblique by plattened at apex)	310 - 650 grams
Quality (Oboate to pryiform)	290 - 650 grams
Cardina (Oboate to pryiform)	260 - 560 grams
Vega (Oboate to broad pryiform)	270 - 480 grams
Cummins (Roundish oblate)	200 - 450 grams
1 kilo	2 - 6 fruits

3. BANANA

Average weight per bunch	14 kilograms
1 bunch	3 - 25 kilograms
1 bunch	50 - 200 fingers
Banana blossom (weight per piece)	0.25 - 1.00 kilogram
1 sack of banana blossom	45 - 50 kilos

<u>Variety</u>	<u>Number of hands/bunch</u>	<u>Number of fingers(pcs.) per hand</u>	<u>Number of fingers(pcs.) per kilogram</u>	<u>Weight/bunch (kg)</u>	<u>Weight per finger (pieces) (gram)</u>
Latundan	3 - 10	8 - 15	10 - 20	3 - 20	50 - 100
Lacatan	4 - 10	10 - 20	8 - 18	5 - 25	70 - 180
Bongolan	4 - 10	8 - 18	8 - 20	4 - 20	70 - 120
Saba	5 - 10	8 - 22	8 - 20	8 - 35	70 - 200
Cavendish	8 - 15	12 - 18	6 - 12	15 - 35	80 - 300
Others	7 - 8	12 - 20	3 - 20	6 - 20	50 - 300

4. CAIMITO

Weight per fruit	80 - 400 grams
1 kilo	3 - 12 fruits

5. CASHEW

No. of nuts per kilogram	100 - 200 nuts (dried)
No. of fruits per kilogram with nuts (small)	20 fruits
No. of fruits per kilogram with nuts (medium)	15 fruits
No. of fruits per kilogram with nuts (big)	12 fruits
1 kaing No. 2 holding 400 - 430 fruits w/o nuts	25 kg. gross
1 kaing No. 2 holding 330 - 400 fruits w/o nuts	28 kg. gross
1 five- gallon can of nuts	12 kilograms
1 sack of nuts	46 - 60 kilograms
1 kaing	400 fruits
Weight per fruit with nuts	70 - 90 grams
Shelling percentage	31%

6. CHICO:

1 kaing No. 2 holding 400 - 500 fruits (native)	30 kilograms
Average weight per fruit by variety:	
Native	66.70 grams
Sao Manila	141.70 grams
Ponderosa	166.70grams
USM	125 - 200 grams, 162.50 average
Average	134.40 grams
1 kilo	5 - 25 fruits

7. GUAYABANO:

Weight per fruit	0.25 to 2.5 kilograms
Number of fruits per kilogram	1 - 4 fruits

8. JACKFRUIT (LANGKA):

Weight per fruit	2 to 40 kilograms
Weight per fruit (small)	2 - 6 kilograms
Weight per fruit (medium)	6 - 25 kilograms
Weight per fruit (big)	26 - 40 kilograms
Average	17.5 kilograms

9. LANZONES:

1 kaing small	30 kilograms
1 kaing medium	35 kilograms
1 kaing large	40 kilograms
1 kaing 1,500 - 2,500 fruits	30 kilograms
Number of fruits per kilogram	30 - 90 fruits
Number of fruits per kilogram by variety:	
Native	60 - 80 fruits
Sulo	30 - 35 fruits
Duco	40 - 45 fruits
1 box	20 - 25 kilograms

10. MANGO:

Carabao Variety:

No. of fruits

Crate (35 - 43 kilos)	75 - 130
Kaing No. 1	150 - 200
Kaing No. 2	100 - 120
Kaing No. 3	80 - 100
1 box	40 kilograms
No. of fruits per kilogram	2 - 7 fruits
Weight per fruit	140 - 500 grams
Average weight per fruit	320 grams

Pico Variety:

No. of fruits

Kaing No. 1	150 - 250
Kaing No. 2	100 - 150
Kaing No. 3	90
No. of fruits per kilogram	3 to 8 fruits
Weight per fruit	125 - 400 grams
Average weight per fruit	262 grams
1 box	40 kilograms
1 kaing	50 kilos

Indian Variety:

No. of fruits per kilogram	4 - 8 fruits
Weight per fruit	125 - 250 grams
Average weight per fruit	188 grams

Hawaiian Variety:

No. of fruits per kilogram	5 - 10 fruits
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Other Variety:

No. of fruits per kilogram	6 - 10 fruits
Weight per fruit	83 - 167 grams

11. PAPAYA:

Hawaiian Variety:

Weight per fruit	0.70 - 4.0 kilograms
Average weight per fruit	2.35 kilograms

Native Variety:

Weight per fruit	0.25 - 2.0 kilograms
Average weight per fruit	1.12 kilogram

Solo Variety:

Weight per fruit	0.25 - 1.63 kilograms
Average weight per fruit	0.94 kilogram

12. PILI (NUTS):

1 sack No. 1 (nuts)	50 kg., average
Number of nuts per kilogram (with shell)	100 - 130 nuts
1 kilo with hull	20 - 30 nuts
Whole nut	100 percent
a. Kernel	18.5 percent
b. Husk	81.5 percent
Oil in Kernels	73.5 percent

13. PINEAPPLE:

Weight per fruit:

Native	0.5 - 2.0 kilograms, 1.25 kg., average
Smooth Cayenne	1.0 - 4.5 kilograms, 2.75 kg., average
Queen	0.6 - 1.5 kilograms, 1.05 kg., average
Hawaiian	0.4 - 4.0 kilograms, 2.2 kg., average
Average	1.88 kg., average

14. WATERMELON:

Weight per fruit	1.0 to 7.0 kilograms
Average	4.0 kilograms
1 kaing	8 - 15 fruits

15. BREADFRUIT (RIMAS):

Weight per fruit	0.67 - 3.0 kilograms
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16. CANISTEL (TIESA):

Number of fruits per kilogram (small)	8 fruits
Number of fruits per kilogram (big)	6 fruits
Number of fruits per kilogram (medium)	7 fruits
Number of fruits per kilogram	6 - 8 fruits
Weight per fruit	125 - 170 grams

17. DURIAN:

Weight per fruit	1 - 5 kilos
Weight per fruit (small)	1 kilo
Weight per fruit (big)	5 kilos
Weight per fruit (medium)	2 kilos

18. GUAVA:

Guava Apple:

1 kilo	2 - 4 fruits
Number of fruits per kilogram (small)	4 fruits
Number of fruits per kilogram (big)	2 fruits
Number of fruits per kilogram (medium)	3 fruits

Guava Native:

Number of fruits per kilogram	10 - 35 fruits
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19. MAKOPA

1 kilo	12 - 20 fruits
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TAMBIS:

Number of fruits per kilogram	25 - 70 fruits
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20. MANGOSTEEN:

1 box	20 - 25 kilograms
1 kilo	5 - 15 fruits

21. MARANG:

1 fruit	1 - 3 kilograms
Weight per fruit (small)	1 kilogram
Weight per fruit (big)	3 kilograms
Weight per fruit (medium)	1.5 kilograms

22. RAMBUTAN:

1 kilo	15 - 30 fruits
1 kaing	30 - 35 kilograms

23. SANTOL:

Native:

Number of fruits per kilogram	8 - 14 fruits
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Bangkok:

Number of fruits per kilogram	3 - 6 fruits
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24. SINIGUELAS:

1 kilo	40 - 70 fruits
1 kaing	42 kilos = 1,200 -1,800 fruits

25. BALIMBING:

Number of fruits per kilogram	5 - 30 fruits
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26. DUHAT:

Number of fruits per kilogram	70 - 150 fruits
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27. IBA (KAMIAS):

Number of fruits per kilogram	30 - 70 fruits
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28. TAMARIND:

Number of fruits per kilogram (green)	25 - 40 fruits
Number of fruits per kilogram (ripe)	50 - 70 fruits

29. CANTALOUPE (MUSKMELON):

Weight per fruit	0.75 - 1.50 kg., 1.12 kg. average
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30. HEBE:

Weight per fruit	77 - 200 grams
No. of fruits per kilogram	5 - 13 fruits

31. SERIALES:

Weight per fruit	17 - 25 grams
No. of fruits per kilogram	40 - 60 fruits

32. PALM FRUIT (KAONG)

1 sack	60 kilograms
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B. CITRUS:**1. CALAMANSI:**

Weight per fruit	10 - 25 grams
Number of fruits per kaing	2,200 - 3,625 fruits
Number of fruits per kilogram	40 - 120 fruits
Number of fruits per basket	800 - 1,000 fruits
1 Net sack	26 - 27 kilograms

2. MANDARIN:

<u>Variety</u>	<u>No of fruits per kaing</u>	<u>No. of fruits/kg.</u>
Batangas	200 - 220	8 - 9
King	100 - 125	4 - 5
Lado	250 - 300	8 - 10
Laon	150 - 175	6 - 7
Szinkon	290 - 400	6 - 13
Taikat	325 - 350	10 - 15
Tizon	125 - 150	5 - 6
Number of fruits per kaing	145 - 420 fruits	
Average no of fruits per kilogram	5 - 15 kilograms	

3. ORANGE:**Native cajel:**

Number of fruits per kilogram	4 - 7 fruits
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Valencia, locally produced:

Number of fruits per kilogram	3 - 5 fruits
Number of fruits per kaing	100 - 125 fruits

Valencia, Imported "Sunkist":

Number of fruits per kilogram	5 - 8 fruits
Number of fruits per metric ton	6,000 fruits
Number of fruits per kaing	250 fruits

4. POMELO:**Weight per fruit:**

Native	0.3 - 2.0 kilograms
Siamese	1.0 - 2.5 kilograms
Chinese	0.6 - 1.75 kilograms
Average weight per fruit	1.35 kilograms
1 Crate	10 - 15 kilos

5. LIME (DAYAP)

Number of fruits per kilogram	12 - 25 fruits
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6. LEMON

Number of fruits per kilogram	10 - 15 fruits
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C. ROOTCROPS:

1. CAMOTE:

No. of tubers per kilogram	2 - 15 tubers
1 sack No. 2 tubers = 300-400 units	40 - 55 kilograms
1 kaing	50 - 60 kilograms
1 kerosene can	10 - 16 kilograms
1 sack	60 - 70 kilograms
1 sack	4 kerosene can

Camote tubers:

Total fresh weight	100 percent
Meat	90 percent
Peelings, others	10 percent

Camote tubers:

Total fresh weight	100 percent
Flour	23 percent
Waste	77 percent

2. CASSAVA:

1 tuber	0.25 - 1.20 kilograms
1 kilo	1 - 12 tubers
1 sack	50 - 70 kilograms
1 sack	4 kerosene can
1 kerosene can	13 - 16 kilograms
1 kaing	40 kilograms

Cassava tubers:

Total fresh weight	100 percent
Dried gaplek	30 percent
Moisture and waste	70 percent

Cassava tubers:

Total fresh weight	100 percent
Starch	15 percent
Waste	85 percent

Gaplek (dry cassava meat):

Total fresh weight	100 percent
Flour	90 percent
Waste	10 percent

3. GABI:

Number of tubers per kilograms	1 - 15 tubers
1 sack	40 - 65 kilograms
1 tuber	0.10 - 1.5 kilograms
1 kerosene can	15 kilograms
1 Baguio basket No. 2 = 500 - 600 units	50 kilograms, gross

4. TUGUI:

Number of tubers per kilograms	5 - 10 tubers
1 kaing No. 1 = 230 units	40 kilograms
1 sack	50 kilograms

5. UBI:

1 kaing tubers	55 - 60 kilograms
1 sack	50 - 65 kilograms
Weight per tuber	0.25 - 10 kilograms

6. PAO GALIANG

1 kerosene can	10 - 16 kilograms
1 kilo	1 - 4 tubers
Weight per tuber	0.25 - 1.50 kilograms

7. YUTIA (CEBU GABI)

1 kilo	3 -16 tubers
1 kerosene can	15 kilos
1 sack	45 - 50 kilos

8. GINGER

1 kerosene can	15 - 18 kilos
No. of rizomes per kilo	1 - 30 rizomes
1 sack	50 - 80 kilograms
1 kaing	60 - 70 kilograms

9. CARROT

No. of tubers per kilogram	5 - 20 tubers
1 sack	60 - 70 kilos
1 kaing	50 - 70 kilograms

10 . TURNIPS (SINGKAMAS):

1 kilo	2 - 10 tubers
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D. VEGETABLES EXCEPT ONION AND POTATO:

1. CABBAGE:

Cabbage basket No. 1 = 70 - 240 heads	110 kilograms, gross
Cabbage basket No. 2 = 50 - 170 heads	82 kilograms, gross
Baguio basket No. 1 = 50 - 135 heads	45 - 60 kilograms, gross
Baguio basket No. 2 = 45 - 60 heads	15 - 20 kilograms, gross
Baguio basket No. 3 = 30 - 60 heads	10 - 15 kilograms, gross
1 basket	40 - 50 kilograms
1 sack	60 - 80 kilograms
Weight per head	0.25 - 2.0 kilograms
Number of heads per kilogram	1 - 4 heads
Average weight per head by variety:	
Charleston	1.179 kilograms
Shanghai	1.713 kilograms
Succession	1.292 kilograms
Marion	1.040 kilograms
Enk. Glory	0.5 kilogram
E.F. Dutch	0.79 kilogram
All Season	0.72 kilogram
Golden Acres	0.536 kilogram
All heads	0.511 kilogram
Jersey Wakefield	0.497 kilogram

2. EGGPLANT:

Long purple/green variety:

Number of fruits per kilogram	6 - 30 fruits
Weight per fruit	30 - 170 grams
Average weight per fruit	100 grams
1 kaing	25 - 60 kilograms
1 sack	40 - 50 kilograms

Round purple/green variety:

Number of fruits per kilogram	6 - 18 fruits
Weight per fruit	60 - 170 grams
Average weight per fruit	115 grams

3. GARLIC:

Number of cloves per kilogram	35 - 100 cloves
Number of segment per clove	12 - 22
1 trintas = 100 cloves	1.35 - 2.6 kilograms
1 bag, mash	25 kilograms

4. PECHAY:

Pechay Baguio/Chinese Pechay/Wongbok:

1 Baguio basket No. 1 = 80 - 120 pieces	40 - 45 kilograms, gross
1 Baguio basket No. 2 = 60 - 90 pieces	30 - 34 kilograms, gross
1 Baguio basket No. 3 = 30 - 45 pieces	15 - 20 kilograms, gross
1 kilo	2 - 5 pieces
Weight per piece	200 - 500 grams

Pechay Native:

1 kilo	4 - 22 pieces
1 kilo	3 bundles
Weight per piece	50 - 250 grams
Weight per bundle	0.25 - 1.20 kilograms
1 kaing	30 - 60 kilograms

5. RADISH:

Number of tubers per kilogram	4 - 10 tubers
Weight per tuber	100 - 200 grams
1 kaing No. 1 tubers	36 kilograms, gross
1 Baguio basket No. 3 = 100 - 150 tubers	20 - 35 kilograms, gross
1 Baguio basket No. 2 = 140 - 200 tubers	35 - 40 kilograms, gross
1 kaing	40 - 60 kilograms

6. TOMATO:

Number of fruits per kilogram	6 - 85 fruits
Weight per fruit	12 - 165 grams
1 baguio basket No. 3 = 300 - 400 units	20 kilograms, gross
1 kaing	22 - 50 kilograms
1 box	25 kilograms
1 crate	20 - 27 kilograms

Average weight of fruit by variety:

Angarilla	165 grams
Pomodoro Maglobe	124 grams
Turialbo	78 grams
Pearl Harbor	75 grams
Native	70 grams
Climbing	63 grams
Pearson	36 grams
Yellow pear	12 grams
Pope	29 grams

E. ONION:**Native Onion:**

1 bungkos (bunch) of onions with tops, dry = 70-76 0.2 to 0.3 kilogram

1 sack, burlap 40 - 50 kilograms

1 bag, mesh small 20 - 25 kilograms

Bermuda Onion:

1 sack, burlap 40 - 50 kilograms

1 bag, mesh small 20 - 25 kilograms

Number of pieces per kilogram (small) 15 - 20 pieces

Number of pieces per kilogram (medium) 9 - 14 pieces

Number of pieces per kilogram (big) 7 - 8 pieces

Red Globe Onion, imported:

1 mesh ("sho-woven") bag of 50 lbs. 20 - 25 kilograms

No. per kilogram:

Small 10 - 20 pieces

Medium 8 - 10 pieces

Big 5 - 7 pieces

Onion leeks (Spring Onion):

Weight per bundle (big) 12 - 15 kilograms

Weight per bundle (small) 0.50 - 1.2 kilograms

F. POTATO:

Number of tubers per kilogram (small) 11 - 30 tubers

Number of tubers per kilogram (medium) 7 - 10 tubers

Number of tubers per kilogram (big) 4 - 6 tubers

1 sack 70 - 90 kilograms

1 Baguio basket No. 3 = 600 units 30 kilograms, gross

1 Baguio basket No. 2 = 1,200 units 50 kilograms, gross

1 Baguio basket No. 1 = 2,200 units 110 kilograms, gross

G. BEANS AND PEAS:

Dried Beans and Mongo:

	<u>Seeds/ganta (kg)</u>	<u>Seeds/liter (kg)</u>
Bountiful Bean	2.3	0.76
Canadian Wonder	2.4	0.8
Habitchuelas	2.5	-
Horticultural Bean	2.3	0.76
Kentucky Wonder	2.4	0.8
Panibugan Bean	2.3	0.76
Red/White Kidney Bean	2.15	0.71
Lima Bean or Patani	2.3 - 2.5	0.76 - 0.83
Tapilan	2.3 - 2.45	0.76 - 0.81
New Era Cowpea (1 sack = 58 kg)	2.4 - 2.5	0.8
Brown-Black Bean or Utong	2.2	0.73
Seguidillas	2.35	0.78
Soybean	2.2	2.75
Mongo (1 cavan = 58.5 kg.)	2.30 - 2.5	0.78
Peas (chicharo)	2.3	-

Winged Beans (Seguidillas)

1 bundle	0.40 - 0.60 kg
1 kilo (no. of fruits)	35 - 45 fruits
1 kilo (no. of pods)	50 - 70 pods

String Beans

1 bundle (small)	0.40 - 0.70 kg
1 bundle (medium)	2 - 2.5 kilograms
1 bundle (big)	10 kilos
1 kilo (bundle)	4 - 5 bundles
1 kilo (strings)	20 - 25 strings
1 kilo (pods)	75 - 100 immature pods

Soy beans

1 sack	80 kilos
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Sweet peas (sitsaro)

1 sack	30 - 60 kilos
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Habitchuelas (Baguio beans)

1 sack	25 - 50 kilos
1 kilo (pods)	100 - 150 pods

Kadios

1 kilo (pods)	3,100 - 3,200 beans
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Kidney beans (red and white)

1 kilo (pods)	2,400 pods
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Mongo, dried

1 kilo (pods)	3,200 beans
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Gisantes, dried

Number of beans per gram	26 beans
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H. COFFEE:

1 gallon can of fresh berries	1/15 gallon can of beans with hull
1 gallon can of beans with hull	5.45 kg. clean coffee
1 k-can of fresh berries	1/3 can beans w/ hull
	= 1 ganta clean coffee
	= 1.8 kilos
2 k-cans green coffee beans	1.5 k-can dry coffee beans w/ hull
1 five-gallon can of fresh berries	
1/3 can of beans with hull	1.7 - 1.8 kilograms clean coffee
Weight per ganta of dry beans	1.6 - 1.725 kilograms
Number of beans per kilogram	1,590 - 1,600 beans
1 kilo berries	200 grams (green coffee)
1 sack of dry beans	40 kilos
1 sack fresh berries	90 kilograms

K. CACAO:

1 sack	60 kilograms
1 cavan dry beans	45 - 48 kilograms
1 mature pod	0.45 - 0.65 kilogram
1 kilo = 900 beans or seeds	30 - 35 pods
Number of beans per kilo	890 - 900 beans
Number of beans per pod	27 - 51 beans
Weight of beans from one pod	35 - 85 grams
Weight of beans per ganta	1.4 - 1.75 kilograms

I. PEANUTS (Ground Nut):

Common Spanish Variety:

1 cavan (unshelled)	30 kilograms
1 ganta (unshelled)	1.0 - 1.2 kilograms
1 ganta (shelled)	1.5 - 2.5 kilograms
1 sack (unshelled)	20 - 28 kilograms
1 sack (shelled)	50 - 62 kilograms
1 can	6 - 15 kilograms
1 kilogram	1,520 seeds (dry)
Shelling percentage by weight	67%
Shelling percentage by volume	30%

<u>Variety:</u>	<u>Wet Season Crop</u>	<u>Dry Season</u>
	<u>%</u>	<u>Crop (%)</u>
Spanish	63.46	73.78
Spanish White	62.47	67.60
Southern Runner	70.56	78.64
Virginia Runner	54.53	60.40
San Mateo	-	72.00
Vigan Lupog	-	73.00
San Jose 3	-	72.00
Peanuts (Percentage of Oil in Kernels)	<u>Sample as submitted</u>	<u>Dry basis</u>
	<u>%</u>	<u>%</u>
San Mateo	52.31	56.06
Japanese	56.90	58.80
Spanish	47.59	52.04
Kinbrales	50.58	54.88
Vigan Lupog	49.26	53.11
Valencia	44.99	49.08
San Jose 1	54.43	58.08
San Jose 2	54.01	58.01
San Jose 3	49.74	53.14
N. Carolina Runner	54.37	56.94
Tennessee Red	56.40	60.07
Chinese	47.16	51.37
Zambales	52.61	54.86
Average	51.54	55.11

J. COCONUT:

Young coconut , weight per fruit 2.5 - 4.0 kilograms

Matured coconut, weight per fruit 1.0 - 1.8 kilograms

Coconut (Laguna type)

No. of coconut commercial required to produce a given quantity of commercial product:

1 metric ton 625 - 800 whole nuts or
1,000 - 1,200 husked nuts

Copra:

3 - 5 nuts 1 kilogram

270 nuts 1 picul = 63.25 kilograms

4,000 - 4,500 nuts (Laguna and Tayabas type) 1 metric ton

3,270 nuts (San Ramon type) 1 metric ton

1 sack 52 - 57 kilograms

Desiccated shredded nuts (5 nuts) 1 kilogram

Oil 7 - 10 nuts = 2.25 kg. copra 1 liter

7,500 nuts 1 metric ton

Charcoal 18,900 nuts 1 metric ton

1,000 nuts 60 - 80 kilograms

Coir 2,000 nuts 1 metric ton

Copra meal (ground copra cake) 1 metric ton

Edible protein, not less than 19 percent

Edible fat, not less than 6 percent

Fibers, not more than 11 percent

Ash, not more than 8 percent

Moisture, not over 10 percent

Oil content of copra 60 - 65 percent

Specific gravity of coconut oil at 15°C 0.926 percent

1 liter coconut oil 0.93 kilogram

Tuba: Average quantity of tuba (coconut sap)

obtained per tree per day 1.5 - 2.65 liters, 2.07 liters, average

Copra Resecada:

For domestic market 100 kilograms, net

For export, at the discretion of exporter or buyer long tons

Resecada is the basic grade in respect both to local market prices quoted in the market report of the Bureau of Commerce, and the determination of the weight and value of the other grades.

To convert weights and value of grades to resecada grades, the following graduated scale of discounts and premium, will apply:

<u>Grade Name</u>	<u>Discount Premium</u>	<u>Conversion Factor</u>
		<u>Resecada - 100%</u>
Coriente	20 percent	80 percent
Coriente Mejorado	16 percent	84 percent
Buen Coriente	12 percent	88 percent
Buen Coriente Mejorado	9 percent	91 percent
Semi-Resecada	6 percent	94 percent
Resecada	0 percent	100 percent
Resecada	2 percent	100 percent

Weight of containers:

	<u>Top Diameter</u> <u>(Centimeter)</u>	<u>Bottom Diameter</u> <u>(Centimeter)</u>	<u>Height</u> <u>(Centimeter)</u>	<u>Weight</u> <u>(Kilogram)</u>
Kaing No. 1	53	33	42	2.9
Kaing No. 2	44	24	32	1.1
Kaing No. 3	39	21	26	0.7

	<u>Top Diameter</u> <u>(Centimeter)</u>	<u>Bottom Diameter</u> <u>(Centimeter)</u>	<u>Height</u> <u>(Centimeter)</u>	<u>Weight</u> <u>(Kilogram)</u>
Baguio basket No. 1	27	27	8	3.0
Baguio basket No. 2	27 - 40	27 - 40	48	2.0
Baguio basket No. 3	26 - 35	26 - 35	35	1.0

K. SUGARCANE:

1 picul sugar	63.25 kilograms
1 metric ton of cane produces 1.7 piculs of sugar	107.53 kilograms
1 metric ton cane yields of cans of juice or 300 - 450 liters of basi	
1 metric ton cane produces the ff. quantity of panocha:	
Panochas weighing 165 grams	420 pieces
Panochas weighing 150 grams	490 pieces
Panochas weighing 135 grams	560 pieces
Panochas weighing 115 grams	700 pieces
Panochas weighing 90 grams	1,050 pieces
Panochas weighing 50 grams	1,400 pieces
1 stalk (cane)	0.75 - 1.96 kilograms
1 can sugar	3.84 kg. juice 20 kilograms
1 liter	1.816 pints
1 luelang from Pangasinan holding 180 taclobs (pairs) of panochas	32 kilograms
1.2 kg. panochas or muscovado sugar 80 ⁰ pol	1 kilogram centrifugal sugar 96 ⁰ pol
1 five-gallon can molasses	25 kilograms

FORMULA:

$$P = \frac{100S}{B}$$

Where P = purity

B = brix

S = sucrose

% Suc. M.J. = Java Ratio x Pol. C.J.

$$\text{Recovery} = \frac{\text{Pur. Sug. (P.M.J. - P.F.M.)}}{\text{Pur. M.J. (P.Sug. - P.F.M.)}}$$

Percent sugar available = Recovery x percent Sug. M.J.

Picul sugar per ton cans = Percent available sugar x $\frac{\text{suc. extraction}}{63.25}$

Ton. sug. = Percent mg. available x ton cane

Where M.J. = Mixed Juice; C. J. = Crasher Juice

P.F.M. = Purity of Final Molasses

To get the approximate expected piculs per ton, multiply the polarization of crasher juice by the figure corresponding to the purity in the following table:

Table: - Factors for calculating piculs per ton of cans

<u>Purity</u>	<u>Factor</u>	<u>Purity</u>	<u>Factor</u>
70	0.030	83	0.111
71	0.083	84	0.112
72	0.086	85	0.114
73	0.089	86	0.115
74	0.092	87	0.116
75	0.095	88	0.118
76	0.097	89	0.119
77	0.099	90	0.120
78	0.102	91	0.121
79	0.104	92	0.122
80	0.106	93	0.123
81	0.107	94	0.124
82	0.109		

Juice extraction from:

Modern control by weight	83.5
Small Factory by weight	69.0
Primitive mills by weight	60.0 - 60.0

L. ABACA:

1 picul abaca fibers	63.25
1 bale = 2 piculs	126.50
1 bundle	80 kilograms
1 stalk (dry)	0.8 - 1.5 kilograms
1 stalk (wet)	2 - 2.5 kilograms

Twines:

<u>Medium</u>	<u>2 ply laid</u>	<u>3 ply laid</u>
Fine	- do -	- do -
x Fine	- do -	- do -
2x Fine	- do -	- do -
3 x Fine	- do -	- do -
4 x Fine	- do -	- do -

Tagul Grade: 1 bale = 50 - 60 kilograms

M. TOBACCO

1 manojitos	10 leaves
10 manojitos	1 mano
1 mano	100 leaves
1 kilogram = 3 - 8 manos	300 - 800 leaves
1 fardo = 40 manos = 4,000 leaves	16.25 kilograms, gross
1 quintal = 50 kg., gross	46 kilograms, net
1 bale (commercial) = 2 1/2 quintal	115 kilograms, net
1 kilograms lead tobacco takes:	

On the average:

632 cigarettes

111 cigars

1 bale wrapper tobacco (30.0 cm. x 73.7 cm. x 73.7) 50 kilograms, net

Especial brands:

800 "La Pilipina" cigarettes

118 "Perfectos" cigars

N. RAMIE, MAGUEY and SISAL FIBERS:

1 picul of fibers	63.25 kilograms
1 bale = 2 piculs	126.5 kilograms

O. RUBBER:

Role of crepe rubber varies in size and weight:

1 box No. 1 and 2 crepe = 86 kg. , gross	80 kilograms, net
1 box No. 3 crepe = 121 kg., gross	100 kilograms, net
1 crepe rubber sheet(4 m.long, 22-25 cm. wide and 2 mm. thick)	2.5 kilograms
1 ribbed smoked rubber sheet (variable length, 17 cm wide, 2 mm. thick)	0.68 kilograms, gross
Rubber in the latex = 26 - 48 percent	37 percent average

P. KAPOK:

3 kilograms of floss with seeds (230 pods)	1 kg. clean floss
1 pod gives approximately 5 grams of floss	
10 grams of seed and 15 grams of core and husk	
1 sack	40 kilograms of floss with seeds
1 kilogram	30 dried fruits with seed

Q. COTTON:

1 picul cotton floss	63.25 kilograms
3 kilograms of cotton floss with seeds	1 kg. floss without seeds
1 sack(double sized)of cotton floss (compacted with seeds)	40 kilograms
1 shein of No. 10 yarn	110 metric
1 sack cotton floss (compacted)	25 kilograms
1 bundle of No. 30 yarn	30 heads
1 bundle of No. 10 and 20 yarn each	20 heads
1 head of yarn No. 10	5 modejas
1 head of mercerized cotton	10 modejas
1 1/2 yard	1 thread
80 threads	120 yards
7 leas	840 yards
840 yards	1 hank
18 hanks	15,120 yards
15,120 yards	1 spindle

R. ALL OTHER FOOD CROPS:**1. AMPALAYA (AMARGOSO)****Long variety**, Number of fruits per kilogram:

Large	3 - 4 fruits
Medium	5 - 8 fruits
Small	9 - 18 fruits
Weight per fruit, all sizes	125 grams (average)

Round variety, Number of fruits per:

1 kilogram	10 - 15 fruits
Weight per fruit	80 grams (average)

Ampalaya Leaves:

1 big bundle	10 kilograms
1 small bundle	100 - 400 grams

2. CALABASA (SQUASH):

Weight per fruit	3.5 kilograms (average)
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Oblong variety:

Weight per fruit	1.5 kilograms, 3.0 kgs. (average)
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Round variety:

Weight per fruit	0.9 - 6 kilograms, 3.4 kg (average)
Weight per fruit (small)	0.8 - 1.0 kilogram
Weight per fruit (medium)	1.0 - 2.5 kilograms
Weight per fruit (big)	2.6 - 6.0 kilograms
1 sack	50 - 90 kilograms

3. CHAYOTE:

Number of fruits per kilogram	2 - 6 fruits
Weight per fruit	150 - 420 grams
1 Baguio basket No. 1 = 200 - 500 fruits	100 kilograms
1 Baguio basket No. 2 = 120 - 200 fruits	60 kilograms
1 Baguio basket No. 3 = 70 - 120 fruits	35 kilograms
1 kaing No. 2 = 90 - 100 fruits	40 - 60 kilograms
1 sack	50 - 100 kilograms
Chayote Tops:	
1 bundle	400 - 800 grams

4. KATURAY:

282 fresh flowers	1 kilogram
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5. PATOLA:

Spanish variety:

Number of fruits per kilogram	4 - 5 fruits
Large	2 - 3 fruits
Small or Medium	4 - 7 fruits
Weight per fruit	140 - 500 grams

Native variety:

Number of fruits per kilogram	5 fruits
Large	2 - 4 fruits
Small or Medium	5 - 8 fruits
Weight per fruit	125 - 500 grams
1 sack	50 kilograms

6. PEPINO:

Weight per fruit	0.15 - 1.0 kilogram (575 grams, ave.)
Number of fruits per kilogram	1 - 7 fruits
1 sack	60 kilograms
1 Baguio basket No. 2 = 135 - 150 units	45 - 50 kilograms (47.5 kg., average)
1 Baguio basket No. 3 = 75 - 90 units	25 - 30 kilograms (27.5 kg., average)

7. PEPPER (RED):

Bell pepper:

Number of fruits per kilogram (small)	30 - 60 fruits
Number of fruits per kilogram (medium)	20 - 30 fruits
Number of fruits per kilogram (big)	5 - 20 fruits
1 Baguio basket No. 2 = 450 - 485 green fruits (big sized)	30 - 35 kilograms
1 Baguio basket No. 3 = 225 - 270 green fruits (big sized)	15 - 18 kilograms
1 sack	20 - 30 kilograms

Common Native variety (Long) Green Finger

Number of fruits per kilogram (small)	150 - 200 fruits
Number of fruits per kilogram (medium)	60 - 100 fruits
Number of fruits per kilogram (big)	35 - 70 fruits
1 sack	20 kilograms
1 bag	20 kilograms

Chili (Labuyo):

1 kilo	4 salmon cans
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Chili leaves

Weight per bundle	200 grams
1 kilo	100 cuttings

8. UPO (WHITE SQUASH):

1 sack	40 - 80 kilograms
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Round variety:

Weight per fruit (small)	0.70 - 1.5 kilograms
Weight per fruit (medium)	1.5 - 3.4 kilograms
Weight per fruit (big)	3.5 - 8.0 kilograms

Long variety	0.5 to 4.5 kilogram	2.5 kilograms, average
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9. OKRA

Weight per fruit	22 grams
No. of fruits per kilo (small)	50 - 80 fruits
No. of fruits per kilo (medium)	30 - 50 fruits
No. of fruits per kilo (big)	20 - 30 fruits
1 sack	35 - 40 kilos

10. ALOGBATI		
1 big bundle		10 kilos
Weight per bundle		0.25 - 1.0 kg
1 kilo		5 small bundles
1 kilo		100 stalks
11. CAULIFLOWER		
1 piece (head)		0.25 - 1.5 kg.
1 sack		60 kilos
1 kaing		80 - 100 kilos
12. CAMOTE TOPS		
1 bundle (small)		250 grams
1 bundle (medium)		0.40 - 0.60 kg
1 big bundle		10 kilos
1 kilo		133 tops
13. GABI STALK		
Weight per bundle		0.25 - 1.3 kilograms
No. of tubers per kilograms (w/ stalk)		2 - 3 tubers
14. KANGKONG		
1 big bundle		10 kilos
1 kilo		4 -5 small bundles
1 kilo		90 - 100 stalks
Weight per bundle		250 grams
15. MALUNGgay LEAVES		
1 big bundle		10 kilos
1 kilo		5 small bundles
1 kilo		150 - 240 leaflets & tips
Weight per bundle		200 grams
16. MUSHROOM		
1 kilo		25 - 50 heads
17. PACO		
Weight per bundle		250 grams
1 kilo		150 - 240 cuttings
18. WAX GOURD (KONDOL)		
Weight per fruit		0.5 - 5.0 kilograms
19. TANGLAD (LEMON GRASS)		
1 kilo		90 - 130 shoots

S. CUT FLOWERS:**1. ASTER**

1 tali

0.05 kg.

2. ANTHURIUM

1 tali

0.10 kg.

3. BABY'S BREATH

1 tali

0.05 kg.

4. CRYSANthemUM

1 tali

0.10 kg.

5. DAISY

1 tali

0.10 kg.

6. ROSES

1 tali

0.05 kg.

7. ORCHIDS (VANDA)

1 tali

0.25 kg.

II. COMMON UNITS OF MEASURE USED FOR FARM CHEMICALS

A. Liquid Measure

1. English System

1 gallon = 4 quarts

1 quart = 32 ounces

1 quart = 2 pints

1 pint = 16 ounces

2. Metric Measure

1 liter = 1,000 cubic centimeter

(a) English - pound

(b) Metric

1 kilogram = 1,000 grams

B. Equivalent of some English System of Measure to the Metric System

1 ounce = 20 cc = 0.03 liter

1 pint = 473 cc = 0.47 liter

1 quart = 946 cc = 0.95 liter

1 gallon = 378 cc = 3.78 liter

1 pound = 0.454 kilogram

C. How to convert English measure to Metric Measure

1. To convert liquid measure in English to Metric System (in liters), multiply the number by the equivalent number of liters of the unit.

Examples:

(a) Convert 3 gallons of insecticide to liter

$$3 \times 3.79 = 11.37 \text{ or } 11.4 \text{ liters}$$

(b) Convert 5 pints of weedicide, to liters

$$5 \times 0.47 = 2.35 \text{ or } 2.4 \text{ liters}$$

(c) Convert 8 ounces of insecticides into liters

$$8 \times 0.03 = 0.24 \text{ liter}$$

2. To convert pounds to kilograms, multiply the number of pounds by 0.45

Examples:

(a) Convert 1 bag of granule weighing 10 pounds into kilograms

$$10 \times 0.454 = 4.5 \text{ kilograms}$$

(b) Convert 3 cans of powdered insecticide to kilogram net weight
of each is 5 pounds.

$$3 \times 5 \times 0.454 = 6.81 \text{ or } 6.8 \text{ kilograms}$$

Yield per tree by type of propagation and age, Mango-Carabao

Age of Trees	GRAFTED TREES			SEEDED TREES		
	Kilograms Per Tree			Kilograms Per Tree		
	Average	Minimum	Maximum	Average	Minimum	Maximum
1	-	-	-	-	-	-
2	-	-	-	-	-	-
3	0.50	-	0.50	-	-	-
4	1.00	-	1.00	-	-	-
5	58.00	10.00	150.00	-	-	-
6	70.00	10.00	200.00	-	-	-
7	73.50	0.50	300.00	-	-	-
8	83.67	5.00	300.00	100.00	50.00	150.00
9	104.00	10.00	300.00	100.00	50.00	150.00
10	105.00	20.00	400.00	190.00	10.00	500.00
11	141.25	20.00	450.00	205.00	20.00	550.00
12	171.36	25.00	500.00	207.00	30.00	600.00
13	192.78	25.00	600.00	226.92	25.00	1,000.00
14	194.33	30.00	700.00	297.50	40.00	800.00
15	203.11	28.00	600.00	297.80	28.00	1,200.00
16	269.00	30.00	800.00	340.00	50.00	900.00
17	277.89	31.00	800.00	386.00	20.00	1,500.00
18	278.71	40.00	1,000.00	389.00	30.00	1,200.00
19	327.22	35.00	900.00	450.00	30.00	1,300.00
20	341.50	35.00	900.00	451.53	50.00	1,400.00
21-25	356.67	50.00	1,200.00	563.08	150.00	1,400.00
26-30	463.07	70.00	1,500.00	610.25	180.00	1,800.00
31-40	558.50	85.00	1,500.00	644.25	250.00	2,000.00
41-50	600.00	400.00	800.00	770.18	379.00	2,200.00
51-60	620.00	150.00	1,500.00	974.16	120.00	2,200.00
61-70	650.00	500.00	800.00	1,081.43	105.00	2,500.00
71-80	700.00	400.00	1,500.00	1,185.50	60.00	2,500.00
81-90	720.00	500.00	800.00	1,401.54	123.00	3,100.00
91-100	781.25	400.00	1,500.00	1,600.64	180.00	3,000.00

**Source: National Mango Research and Development Center,
Jordan, Guimaras**