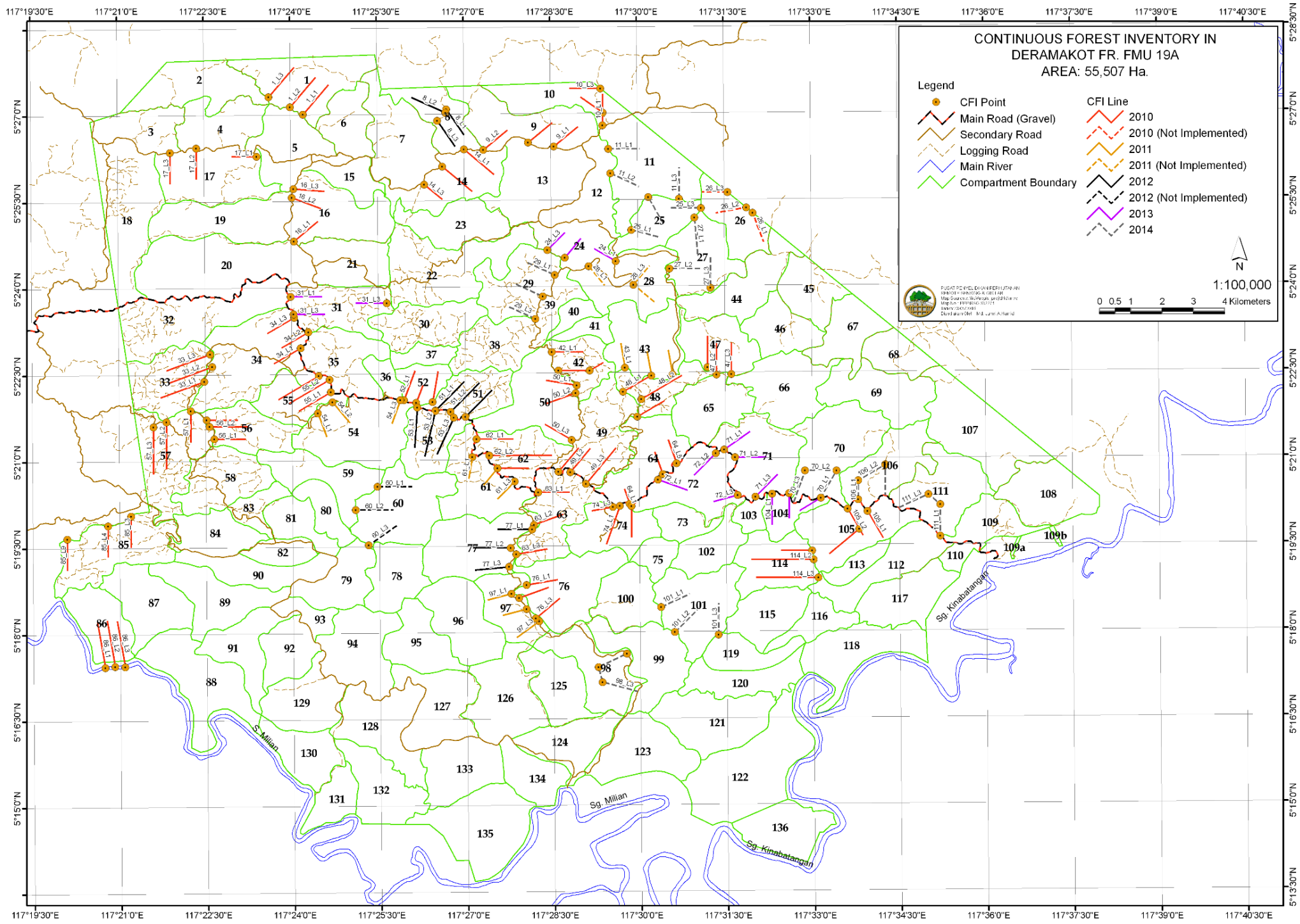# Continuous Forest Inventory

(CFI)

Summary Report

Deramakot Forest Reserve

CONTINUOUS FOREST INVENTORY IN DERAMAKOT FR. FMU 19A
AREA: 55,507 Ha.
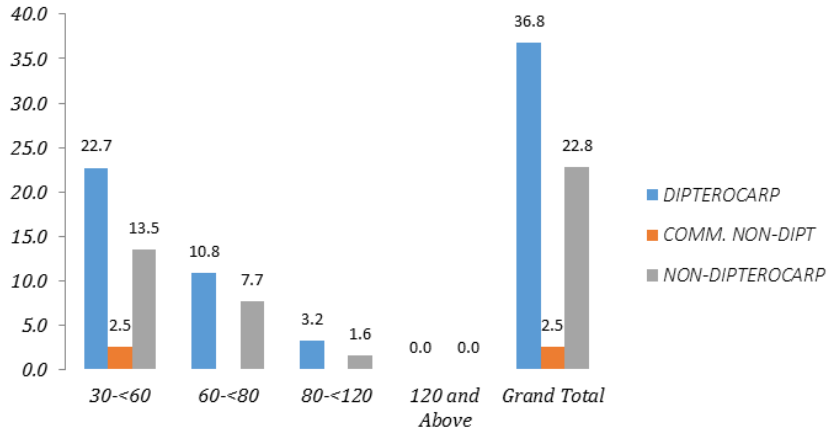
Legend

CFI Point
- CFI Point

- Main Road (Gravel)
- Secondary Road
- Logging Road
- Main River
- Compartment Boundary

CFI Line
- 2010
- 2010 (Not Implemented)
- 2011
- 2011 (Not Implemented)
- 2012
- 2012 (Not Implemented)
- 2013
- 2014

PUSAT PENYELIDIKAN PERHUTANAN
REMOTE SENSING & GIS LAB
Map Source: Worldview and SPOT 6
Map No: PPRRRSG 10/2/1
Index: DERAMAKOT
Disediakan Oleh: Md. Jumin A Hamid

N

1:100,000

0 0.5 1   2   3   4 Kilometers

117°19'30"E 117°21'0"E 117°22'30"E 117°24'0"E 117°25'30"E 117°27'0"E 117°28'30"E 117°30'0"E 117°31'30"E 117°33'0"E 117°34'30"E 117°36'0"E 117°37'30"E 117°39'0"E 117°40'30"E

5°28'30"N 5°27'0"N 5°25'30"N 5°24'0"N 5°22'30"N 5°21'0"N 5°19'30"N 5°18'0"N 5°16'30"N 5°15'0"N 5°13'30"N

S. Milian
Sg. Milian
Sg. Kinabatangan
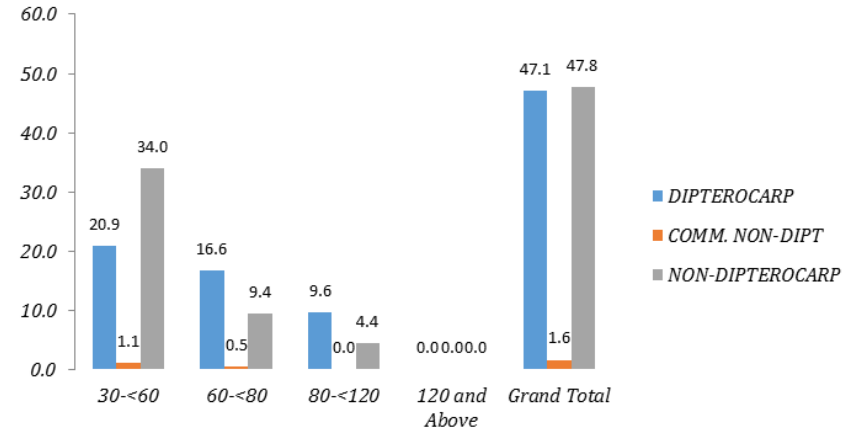
Summary of Tree Density Distribution per Hectare for CFI: 2005 – 2014
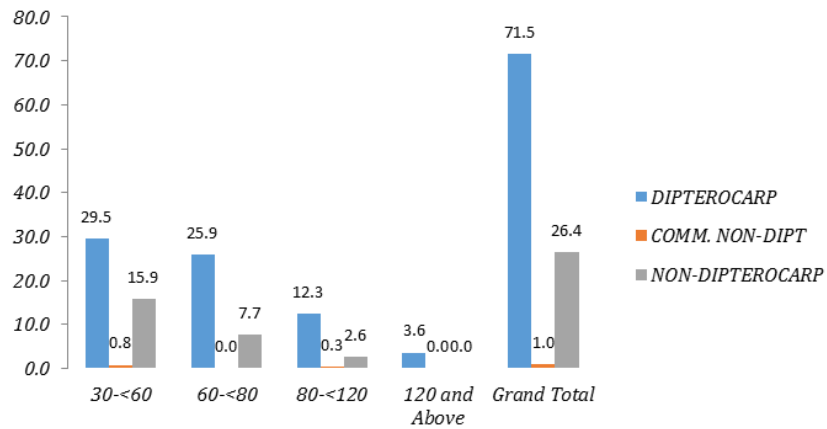
2005 Data (Left) and Re-Enumeration in 2010 (Right)
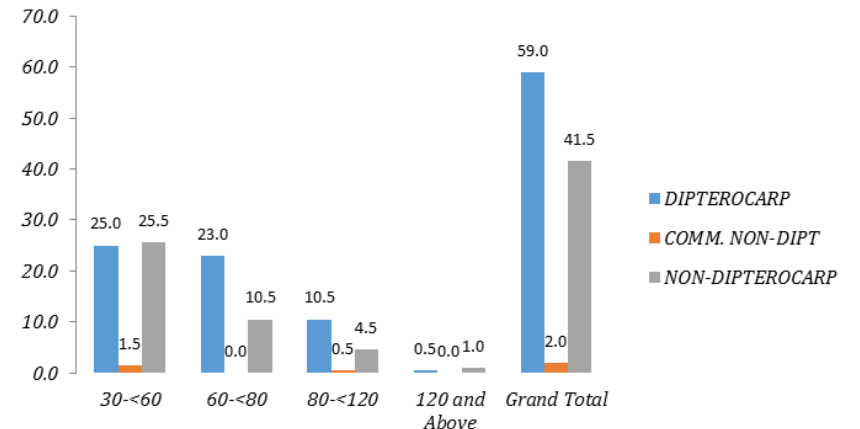

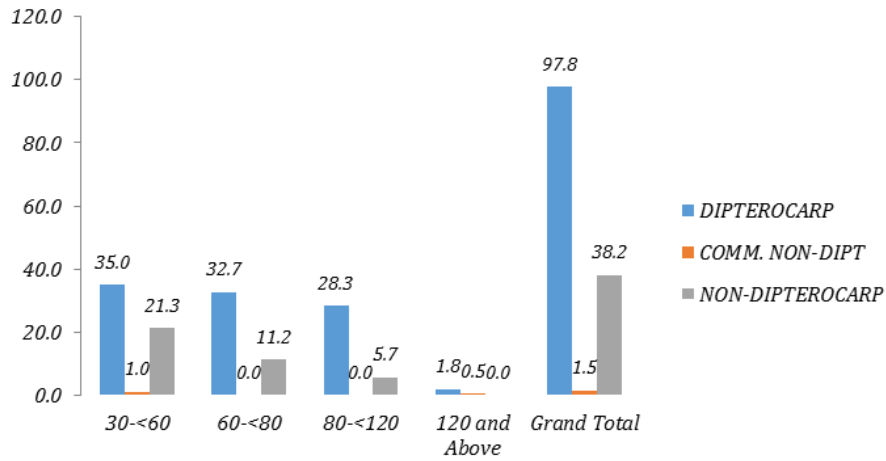Compartment 10: Number of Tree ha-1 by DBH Class (cm)

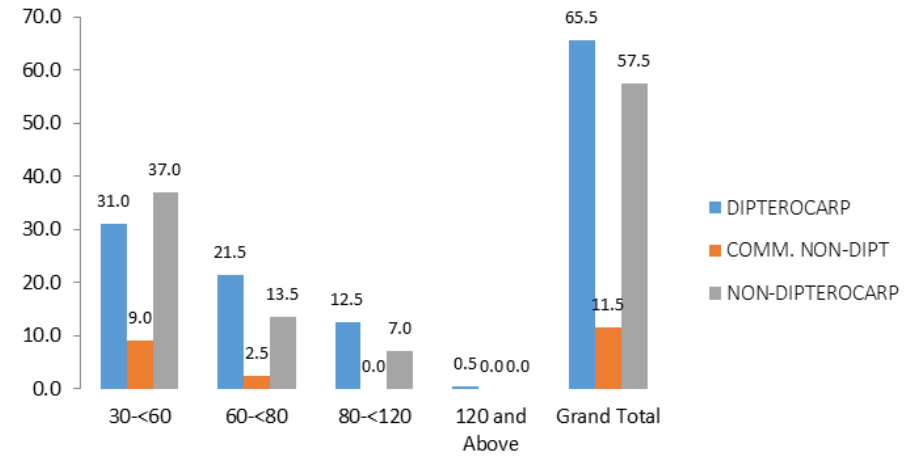Compartment 10: Number of Tree ha-1 by DBH Class (cm)

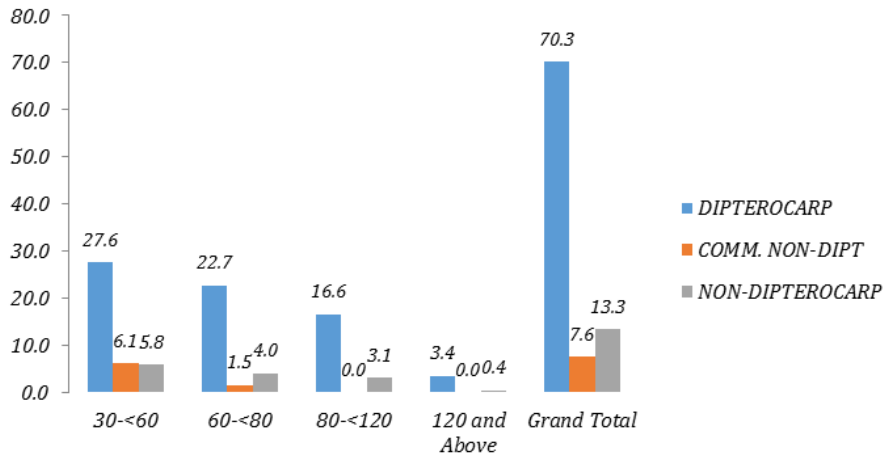Compartment 34: Number of Tree ha-1 by DBH Class (cm)

Compartment 34: Number of Tree ha-1 by DBH Class (cm)

Compartment 52: Number of Tree ha-1 by DBH Class (cm)

Compartment 55: Number of Tree ha-1 by DBH Class (cm)

Compartment 55: Number of Tree ha-1 by DBH Class (cm)

Compartment 55: Number of Tree ha-1 by DBH Class (cm)

Compartment 74: Number of Tree ha-1 by DBH Class (cm)
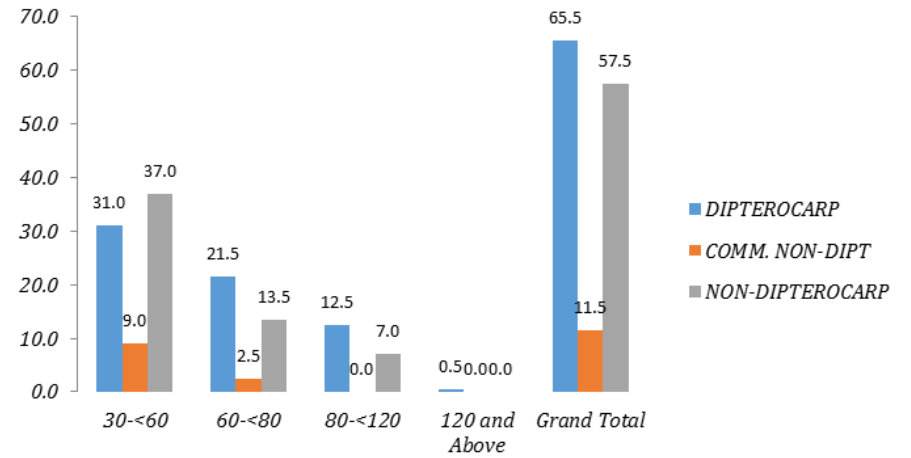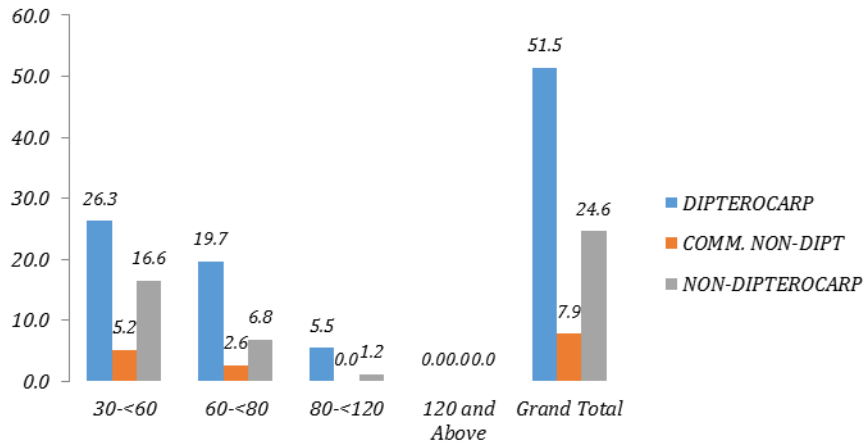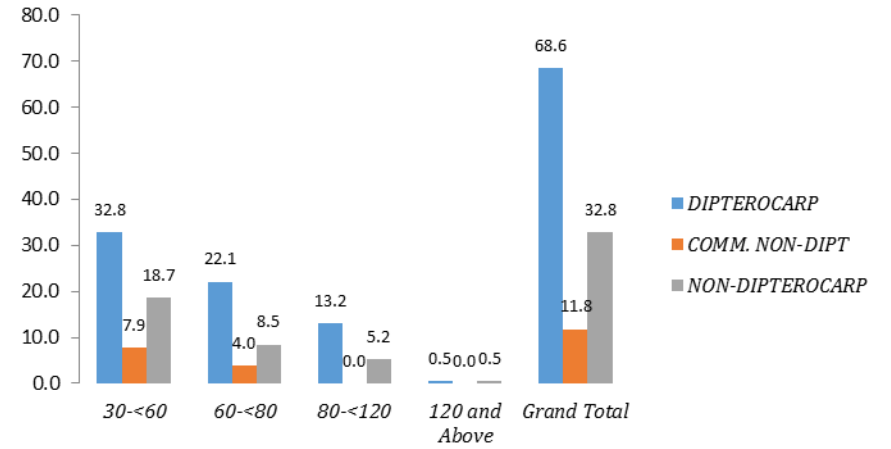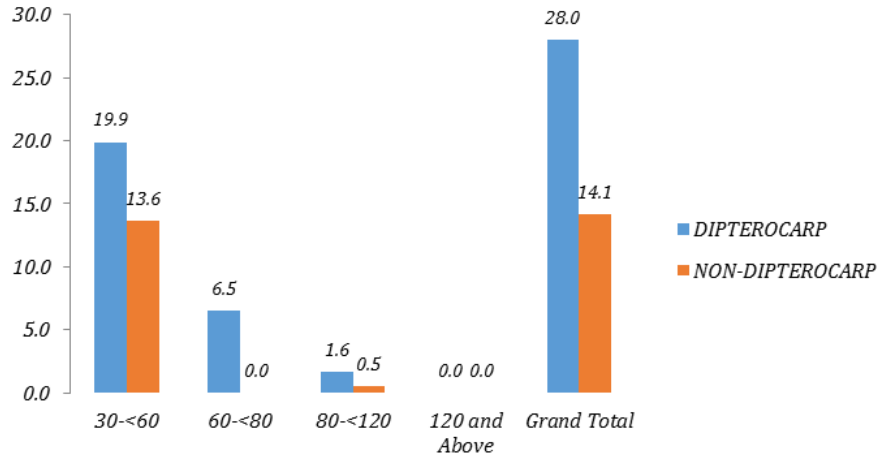

Compartment 74: Number of Tree ha-1 by DBH Class (cm)
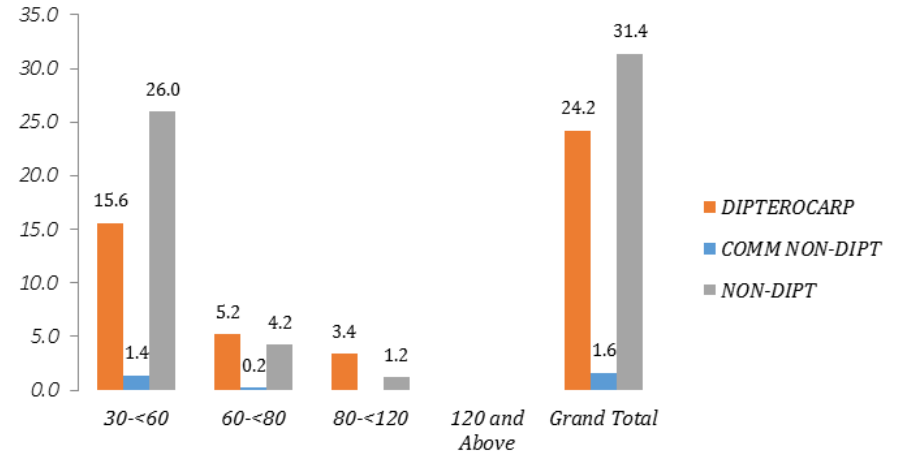
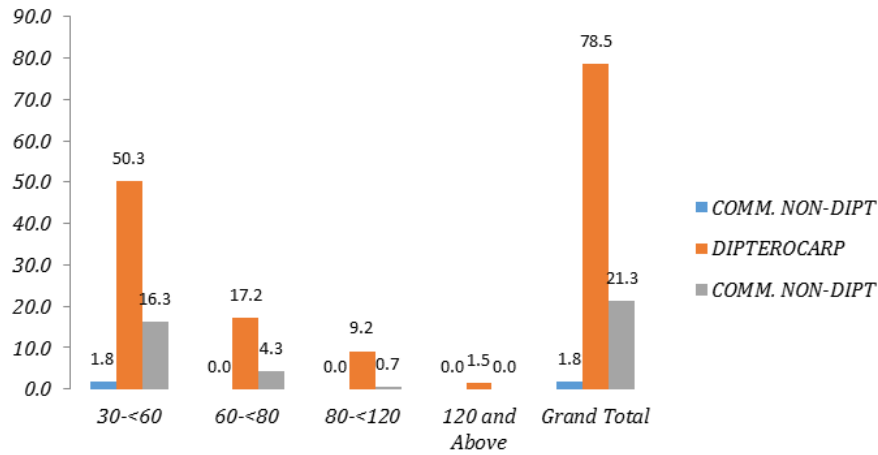## 2006 Data (Left) and Re-Enumeration in 2011 (Right)

Compartment 17: Number of Tree ha-1 by DBH Class (cm)

Compartment 17: Density of Tree (per ha.) by DBH Class (cm)

Compartment 57: Number of Tree ha-1 by DBH Class (cm)
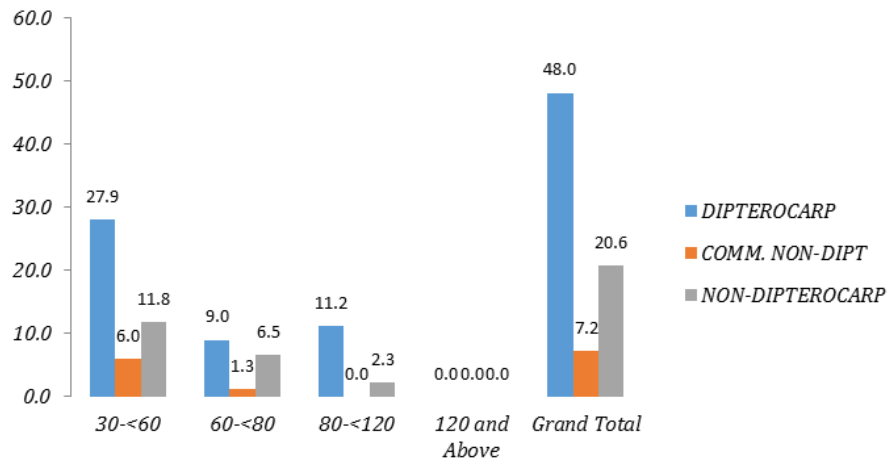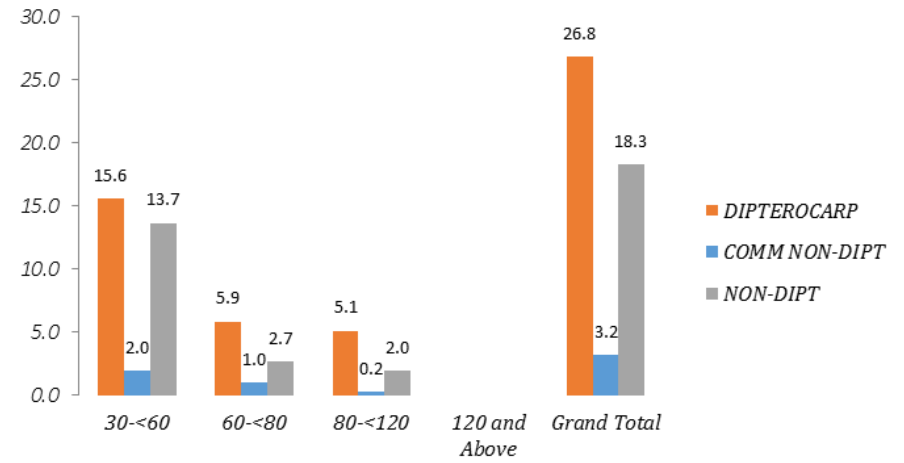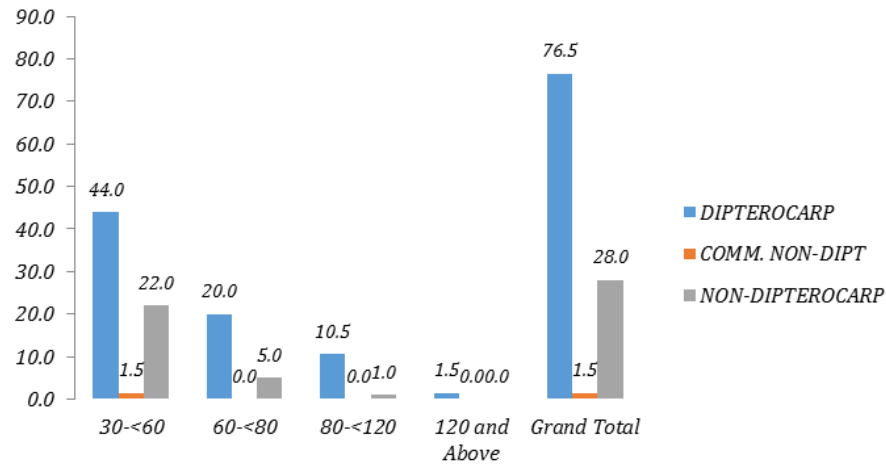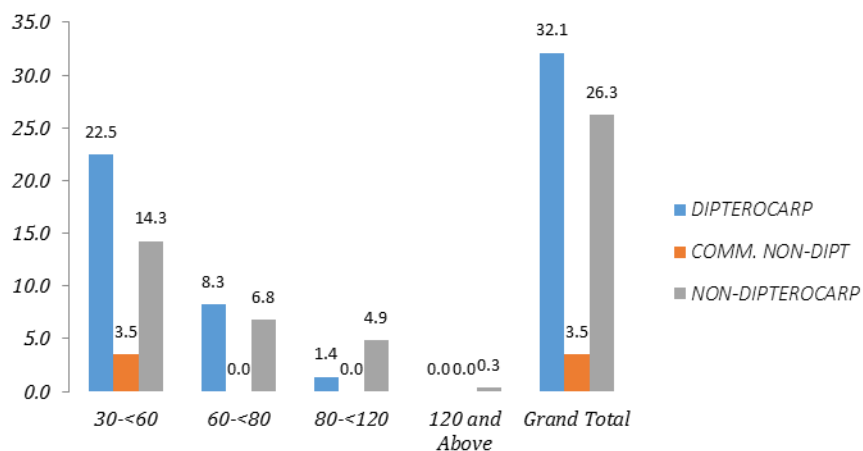
Compartment 64: Number of Tree ha-1 by DBH Class (cm)

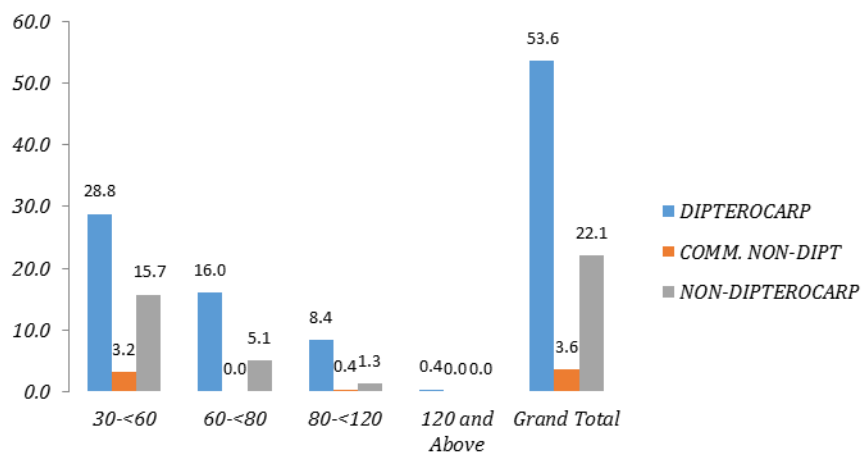Compartment 64: Density of Tree (per ha.) by DBH Class (cm)

Compartment 85: Number of Tree ha-1 by DBH Class (cm)

2007 Data (Left) and Re-Enumeration in 2012 (Right)

Compartment 1: Number of Tree ha-1 by DBH Class (cm)

Chart legend: DIPTEROCARP, COMM. NON-DIPT, NON-DIPTEROCARP

Data points:
- 30-<60: 22.5, 3.5, 14.3
- 60-<80: 8.3, 0.0, 6.8
- 80-<120: 1.4, 0.0, 4.9
- 120 and Above: 0.0, 0.0, 0.3
- Grand Total: 32.1, 3.5, 26.3

Compartment 14: Number of Tree ha-1 by DBH Class (cm)

Chart legend: DIPTEROCARP, COMM. NON-DIPT, NON-DIPTEROCARP

Data points:
- 30-<60: 28.8, 3.2, 15.7
- 60-<80: 16.0, 0.0, 5.1
- 80-<120: 8.4, 0.4, 1.3
- 120 and Above: 0.4, 0.0, 0.0
- Grand Total: 53.6, 3.6, 22.1

Compartment 14: Number of Tree ha-1 by DBH Class (cm)

Chart legend: Dipterocarp, Comm Non-Dipt, Non-Dipt

Data points:
- 30-<60: 10.8, 1.5, 22.1
- 60-<80: 5.6, 0.5, 2.9
- 80-<120: 3.2, 0.5
- 120 & Above: 0.8
- Grand Total: 20.4, 2.0, 25.5

Compartment 33: Number of Tree ha-1 by DBH Class (cm)

Compartment 33: Number of Tree ha-1 by DBH Class (cm)

Compartment 56: Number of Tree ha-1 by DBH Class (cm)
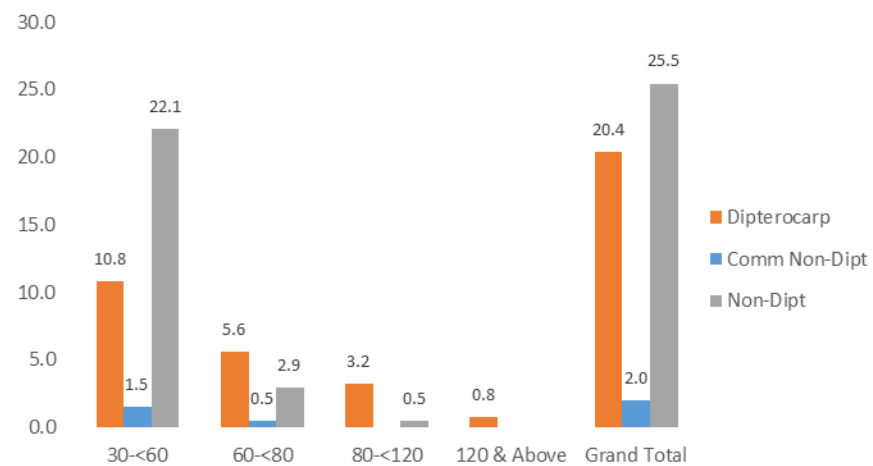
Compartment 86: Number of Tree ha-1 by DBH Class (cm)

2008 Data (Left) and Re-Enumeration in 2013 (Right)
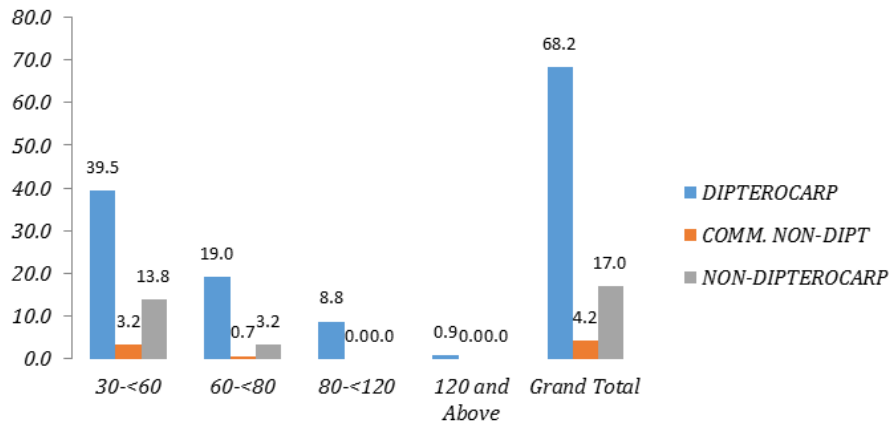

Compartment 1: Number of Tree ha-1 By DBH Class (cm)
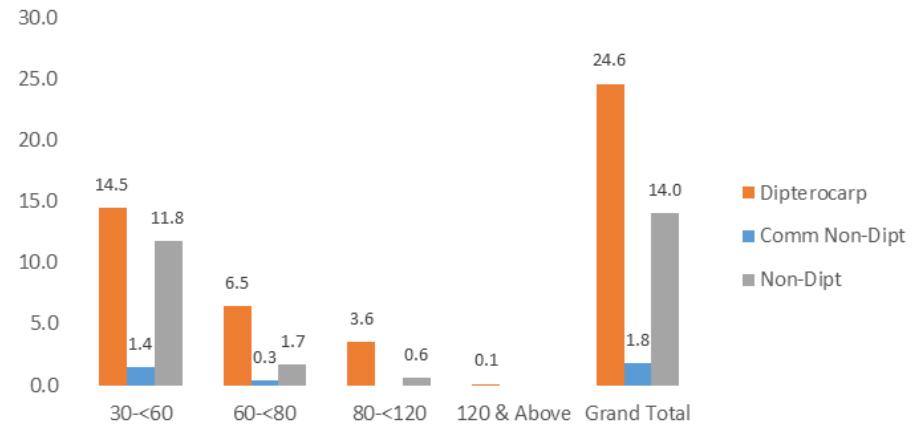

Compartment 1: Number of Tree ha-1 by DBH Class (cm)
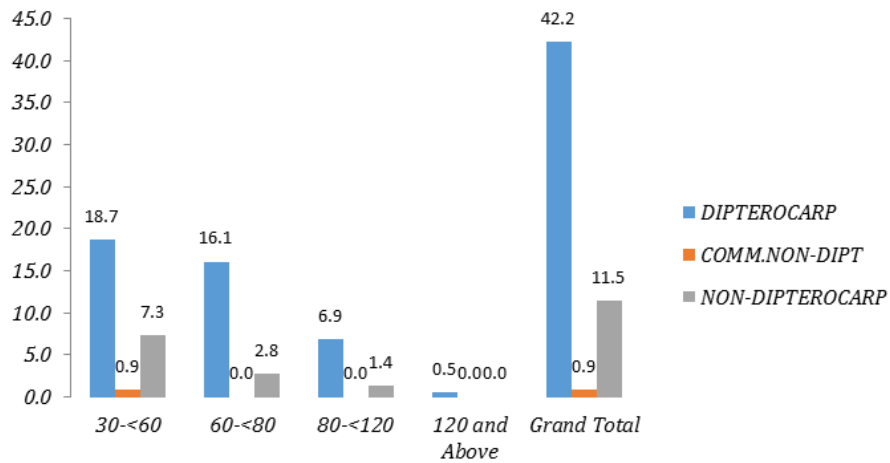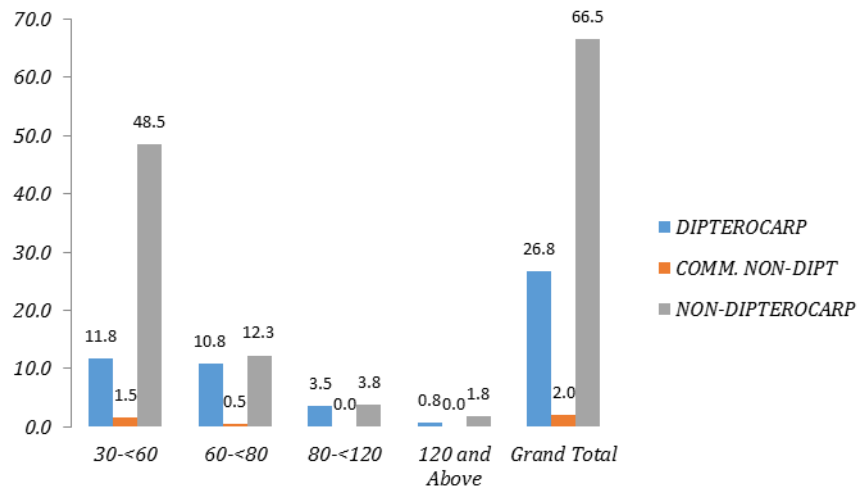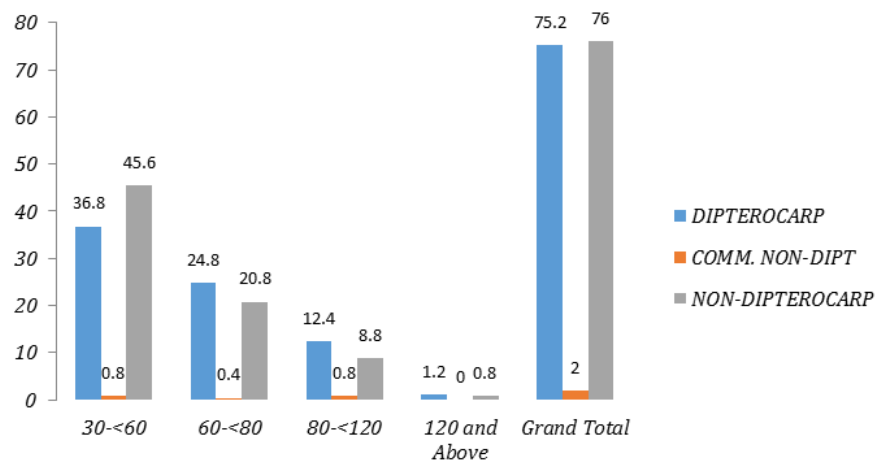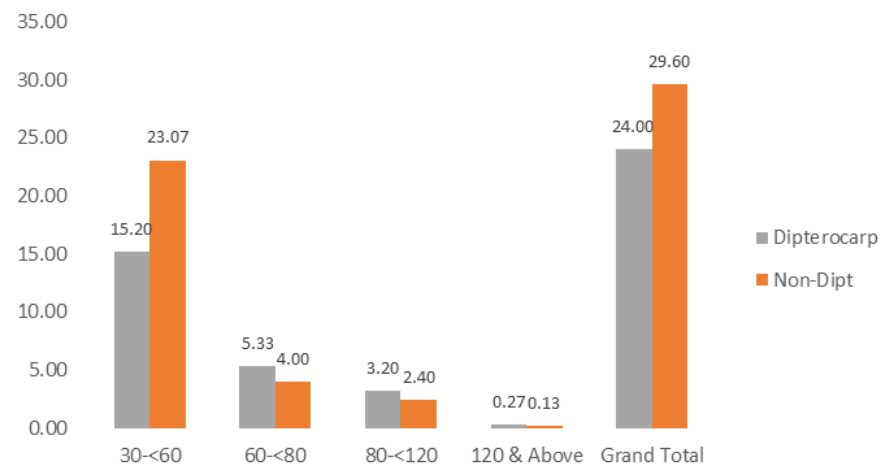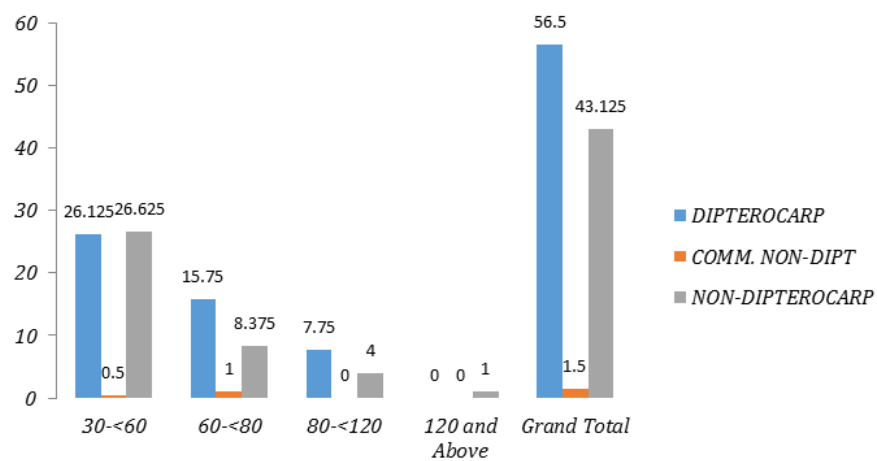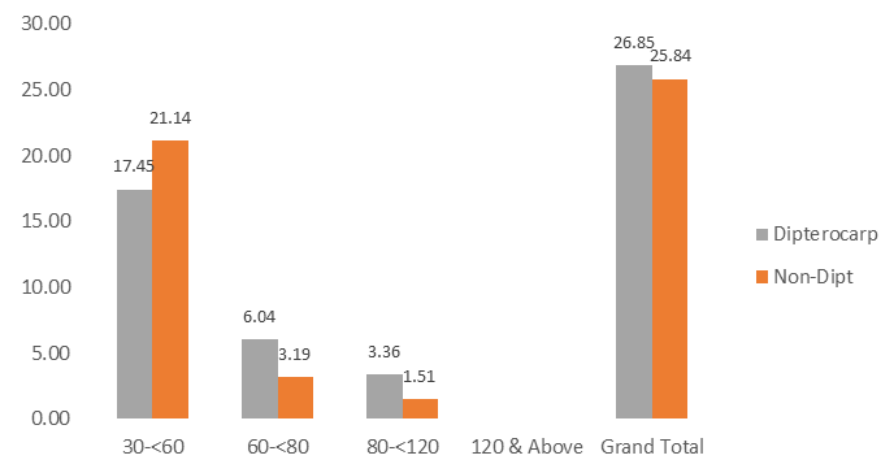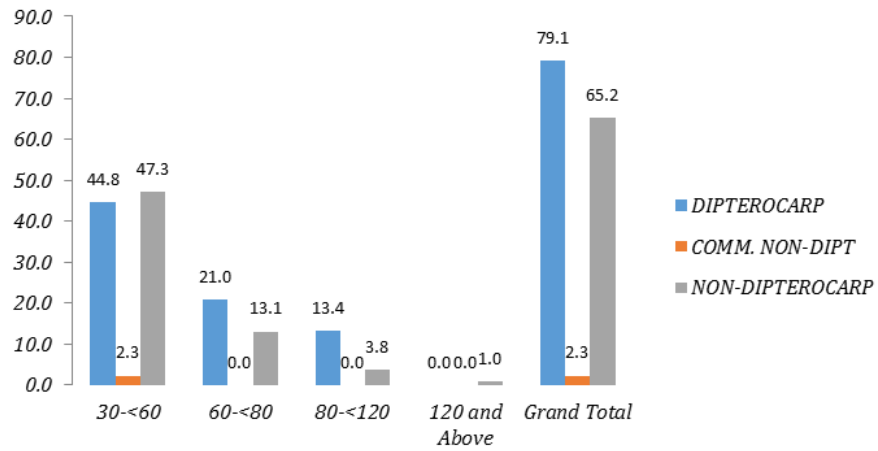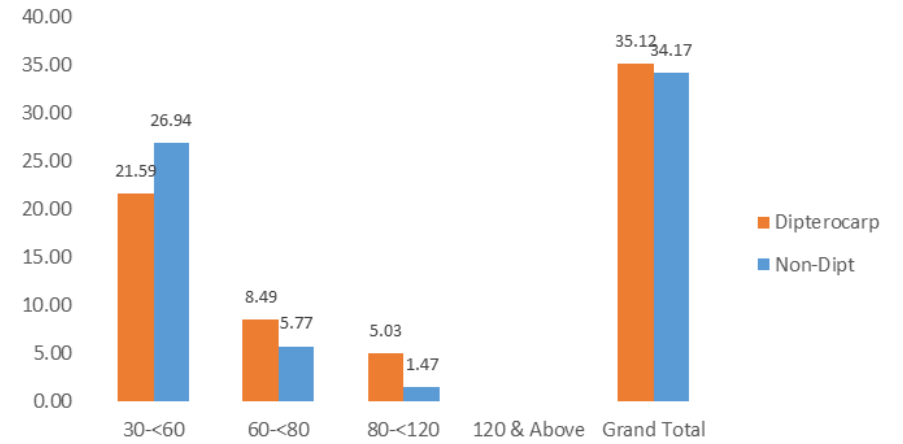

Compartment 9: Number of Tree ha-1 By DBH Class (cm)

Compartment 9: Number of Tree ha-1 by DBH Class (cm)

Top-left chart

Y-axis: 90.0, 80.0, 70.0, 60.0, 50.0, 40.0, 30.0, 20.0, 10.0, 0.0

Legend: DIPTEROCARP, COMM. NON-DIPT, NON-DIPTEROCARP

- 30-<60: 44.8, 2.3, 47.3
- 60-<80: 21.0, 0.0, 13.1
- 80-<120: 13.4, 0.0, 3.8
- 120 and Above: 0.0, 0.0, 1.0
- Grand Total: 79.1, 2.3, 65.2

Compartment 62: Number of Tree ha-1 By DBH Class (cm)

Top-right chart

Y-axis: 40.00, 35.00, 30.00, 25.00, 20.00, 15.00, 10.00, 5.00, 0.00

Legend: Dipterocarp, Non-Dipt

- 30-<60: 21.59, 26.94
- 60-<80: 8.49, 5.77
- 80-<120: 5.03, 1.47
- 120 & Above
- Grand Total: 35.12, 34.17

Compartment 62: Number of Tree ha-1 by DBH Class (cm)

Bottom-left chart

Y-axis: 80.0, 70.0, 60.0, 50.0, 40.0, 30.0, 20.0, 10.0, 0.0

Legend: DIPTEROCARP, COMM. NON-DIPT, NON-DIPTEROCARP

- 30-<60: 43.0, 12.3, 40.4
- 60-<80: 20.5, 2.5, 10.3
- 80-<120: 12.3, 0.0, 3.3
- 120 and Above: 0.0, 0.0, 0.0
- Grand Total: 75.8, 14.8, 54.0

Compartment 105: Number of Tree ha-1 By DBH Class (cm)

Bottom-right chart

Y-axis: 40.00, 35.00, 30.00, 25.00, 20.00, 15.00, 10.00, 5.00, 0.00

Legend: Dipterocarp, Non-Dipt

- 30-<60: 24.90, 24.81
- 60-<80: 7.67, 4.51
- 80-<120: 4.66, 0.75
- 120 & Above
- Grand Total: 37.29, 30.08

Compartment 105: Number of Tree ha-1 by DBH Class (cm)

Compartment 114: Number of Tree ha-1 By DBH Class (cm)
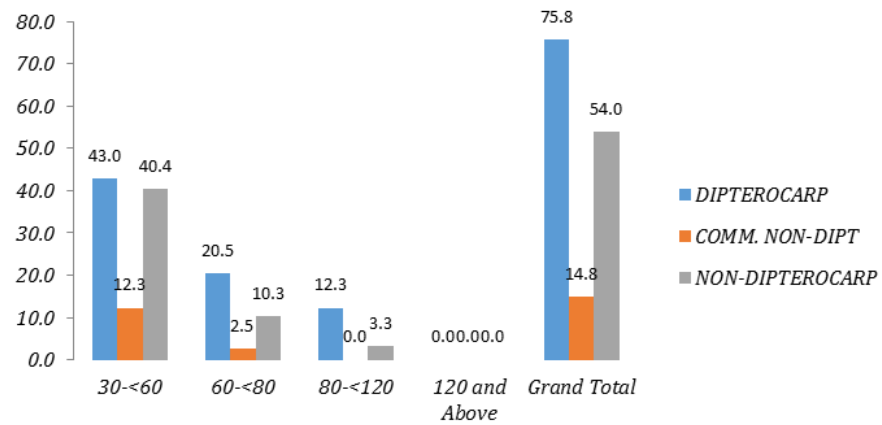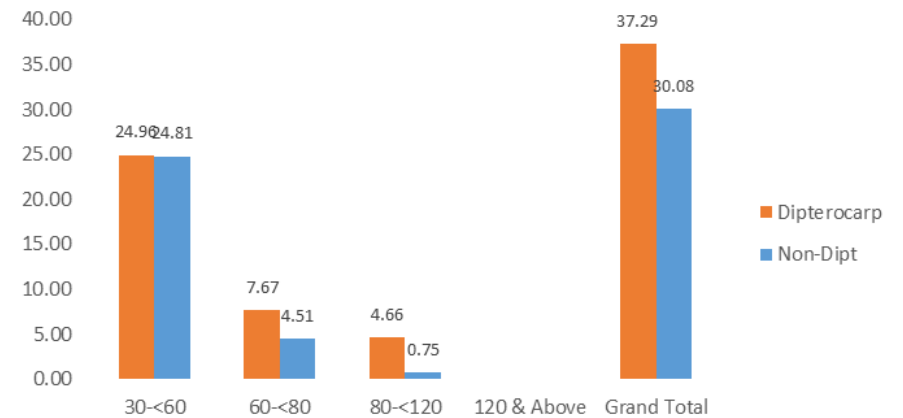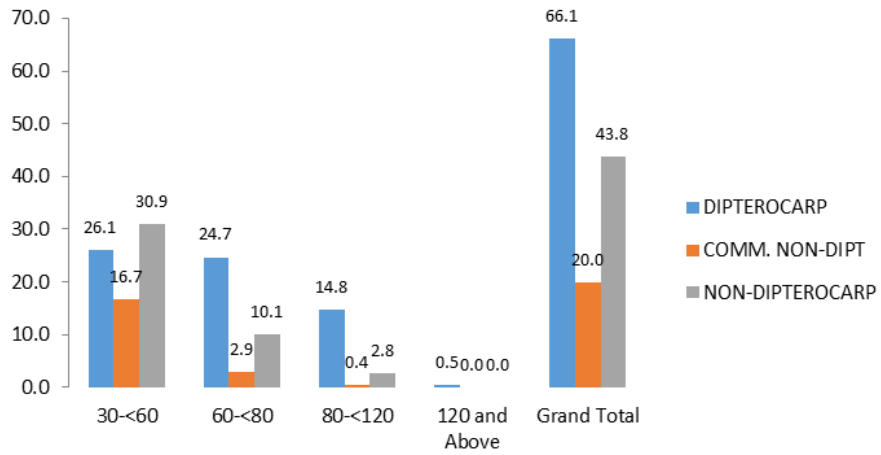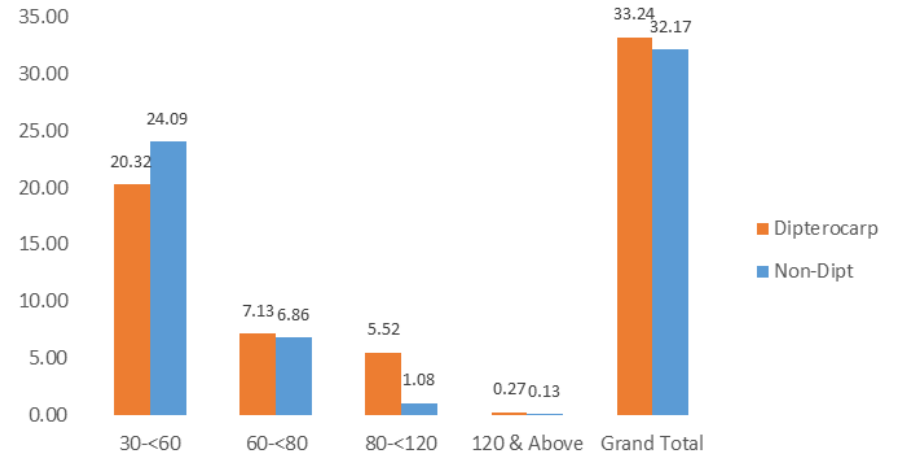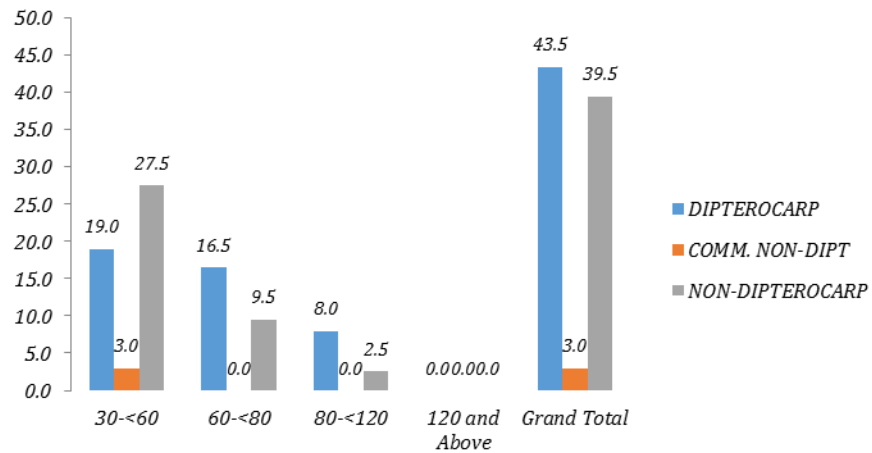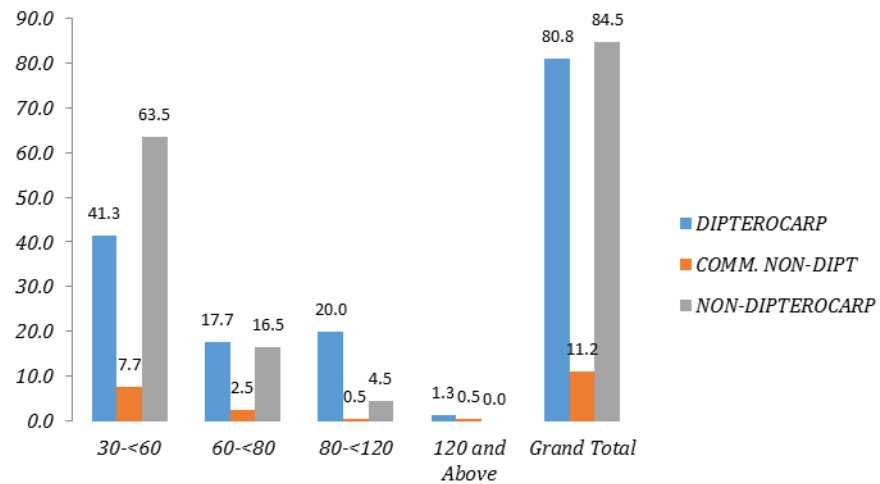

Compartment 114: Number of Tree ha-1 by DBH Class (cm)

2009 Data

Compartment 42: Number of Tree ha-1 By DBH Class (cm)

DIPTEROCARP
COMM. NON-DIPT
NON-DIPTEROCARP

	30-<60	60-<80	80-<120	120 and Above	Grand Total
DIPTEROCARP	19.0	16.5	8.0	0.0	43.5
COMM. NON-DIPT	3.0	0.0	0.0	0.0	3.0
NON-DIPTEROCARP	27.5	9.5	2.5		39.5

Compartment 48: Number of Tree ha-1 By DBH Class (cm)

DIPTEROCARP
COMM. NON-DIPT
NON-DIPTEROCARP

	30-<60	60-<80	80-<120	120 and Above	Grand Total
DIPTEROCARP	41.3	17.7	20.0	1.3	80.8
COMM. NON-DIPT	7.7	2.5	0.5	0.5	11.2
NON-DIPTEROCARP	63.5	16.5	4.5	0.0	84.5

Compartment 49: Number of Tree ha-1 By DBH Class (cm)

Compartment 64: Number of Tree ha-1 By DBH Class (cm)
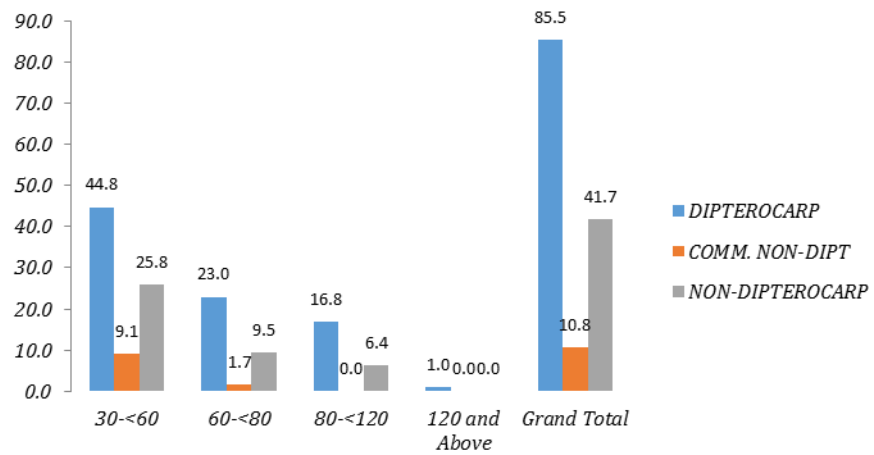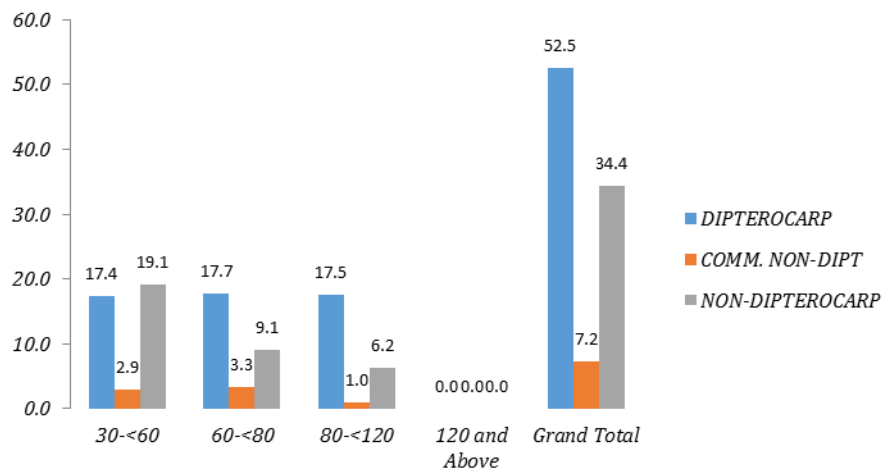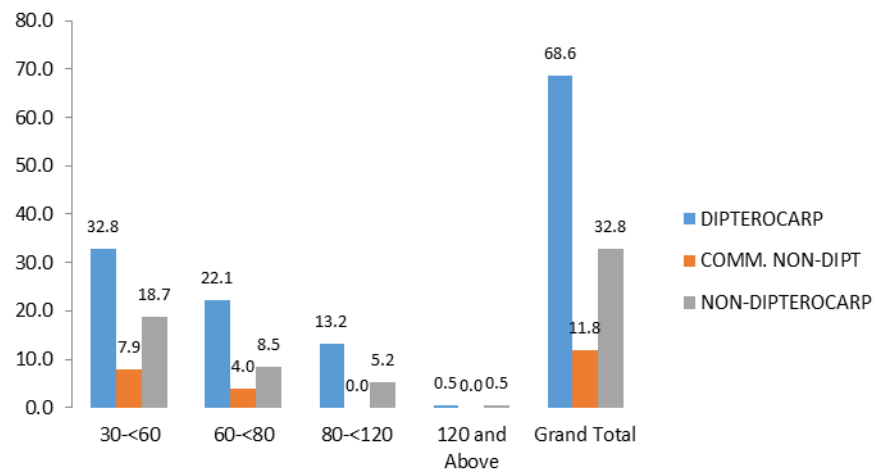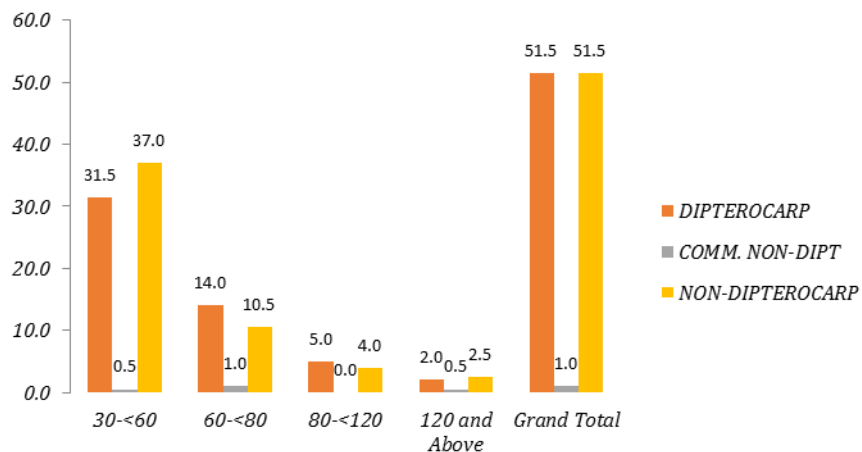
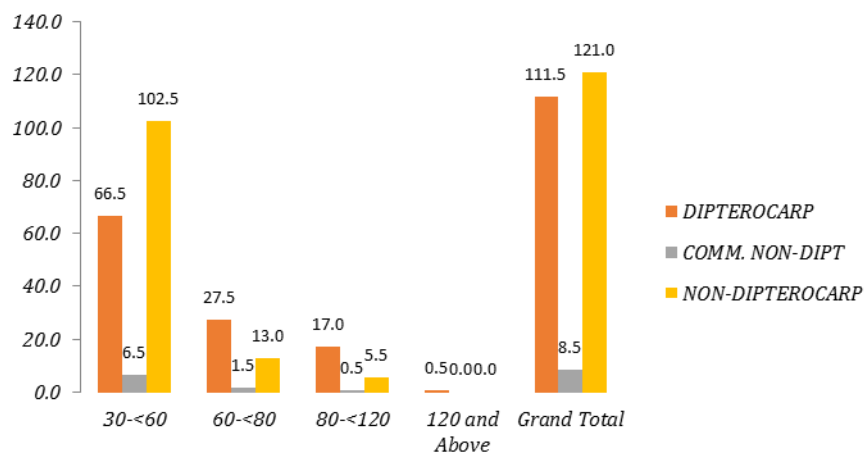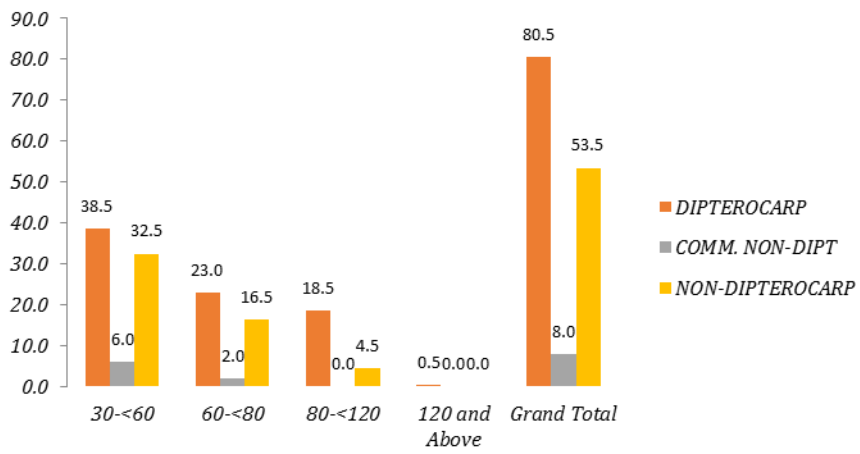Compartment 74: Number of Tree ha-1 By DBH Class (cm)

2010 Data

Compartment 16: Number of Tree ha-1 by DBH Class (cm)

Legend:
- DIPTEROCARP
- COMM. NON-DIPT
- NON-DIPTEROCARP

Compartment 16 values:
- 30-<60: 31.5, 0.5, 37.0
- 60-<80: 14.0, 1.0, 10.5
- 80-<120: 5.0, 0.0, 4.0
- 120 and Above: 2.0, 0.5, 2.5
- Grand Total: 51.5, 1.0, 51.5

Compartment 50: Number of Tree ha-1 by DBH Class (cm)

Legend:
- DIPTEROCARP
- COMM. NON-DIPT
- NON-DIPTEROCARP

Compartment 50 values:
- 30-<60: 66.5, 6.5, 102.5
- 60-<80: 27.5, 1.5, 13.0
- 80-<120: 17.0, 0.5, 5.5
- 120 and Above: 0.5, 0.0, 0.0
- Grand Total: 111.5, 8.5, 121.0

Compartment 63: Number of Tree ha-1 by DBH Class (cm)

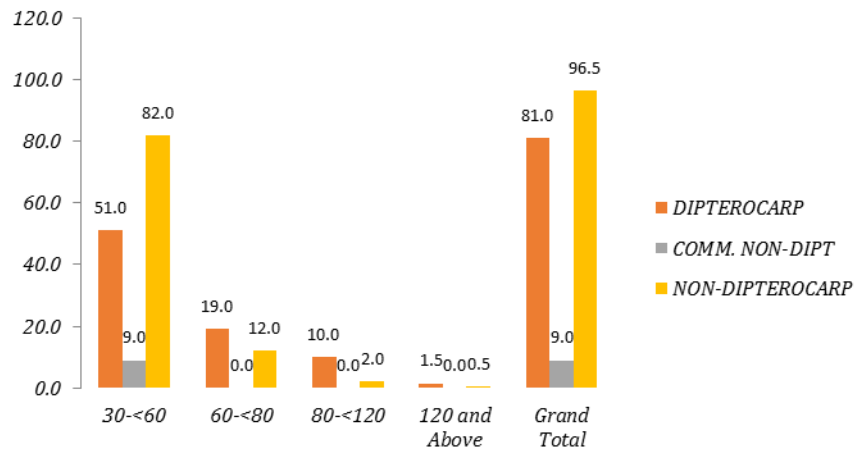*Compartment 76: Number of Tree ha-1 by DBH Class (cm)*

2011 Data

Compartment 43: Number of Tree ha-1 by DBH Class (cm)

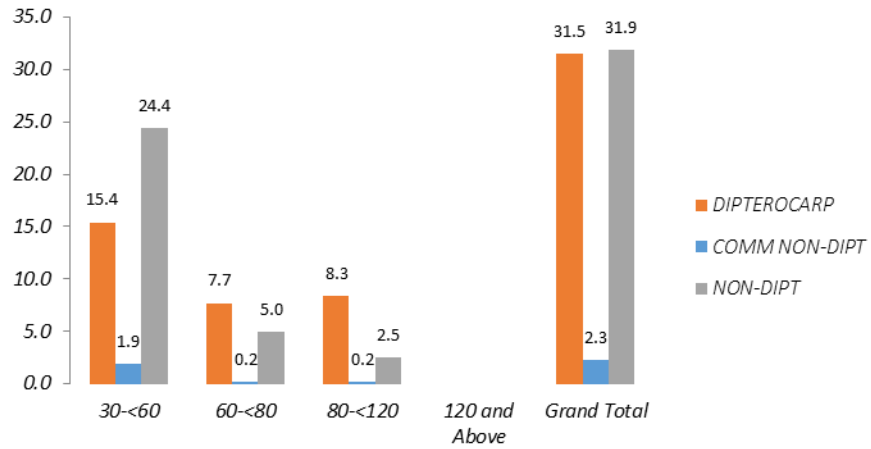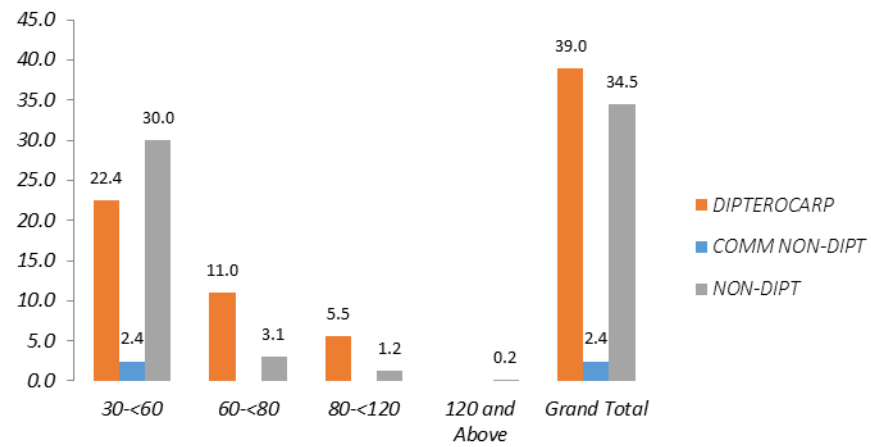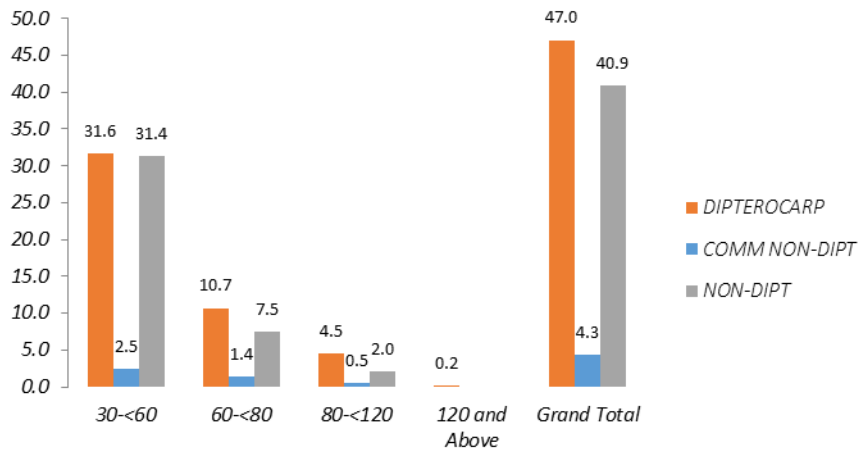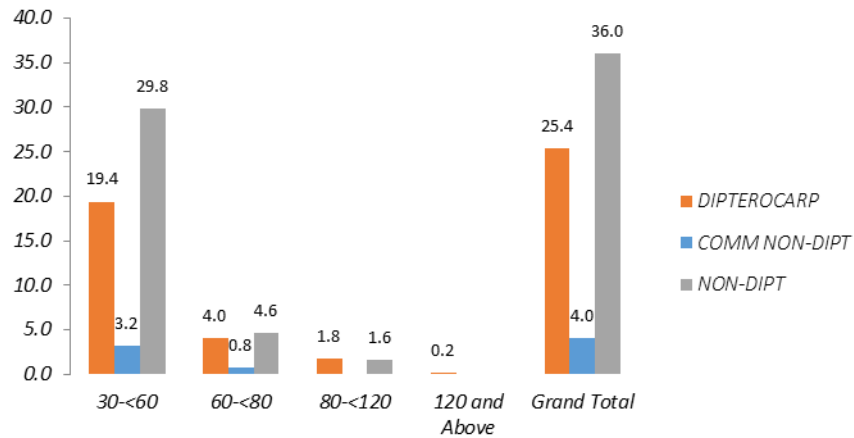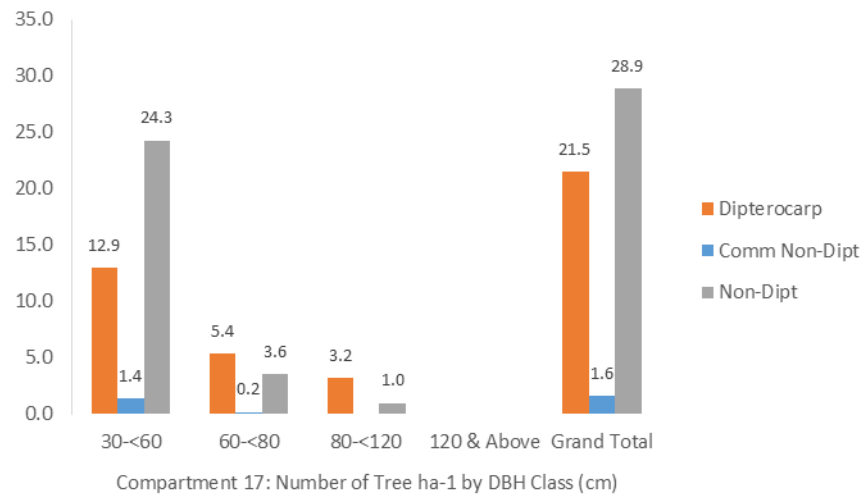Compartment 54: Density of Tree (per ha.) By DBH Class (cm)

Compartment 61: Number of Tree ha-1 by DBH Class (cm)

Compartment 97: Number of Tree ha-1 by DBH Class (cm)

2012 Data

Compartment 8: Number of Tree ha-1 by DBH Class (cm)

Dipterocarp: 30-<60: 14.9, 60-<80: 8.5, 80-<120: 3.6, 120 & Above: 0.3, Grand Total: 27.4
Comm Non-Dipt: 30-<60: 0.9, 60-<80: 0.2, Grand Total: 1.1
Non-Dipt: 30-<60: 25.8, 60-<80: 3.0, 80-<120: 0.6, Grand Total: 29.4

Compartment 17: Number of Tree ha-1 by DBH Class (cm)

Dipterocarp: 30-<60: 12.9, 60-<80: 5.4, 80-<120: 3.2, Grand Total: 21.5
Comm Non-Dipt: 30-<60: 1.4, 60-<80: 0.2, Grand Total: 1.6
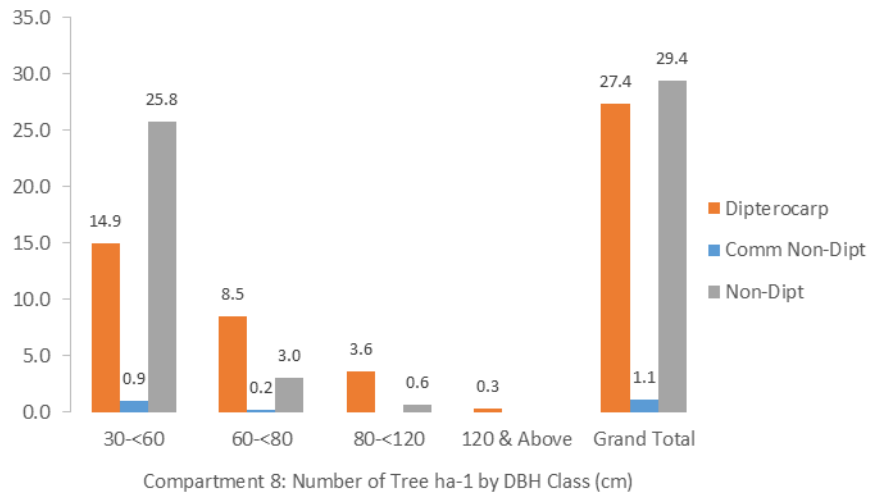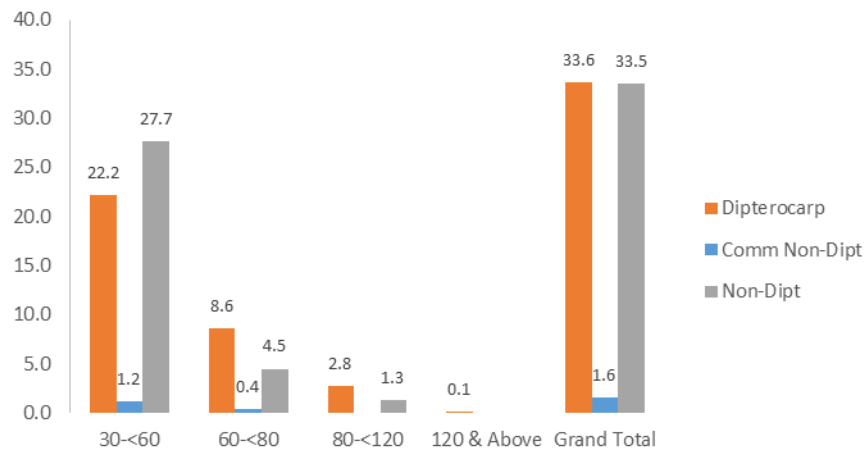Non-Dipt: 30-<60: 24.3, 60-<80: 3.6, 80-<120: 1.0, Grand Total: 28.9

Compartment 51: Number of Tree ha-1 by DBH Class (cm)
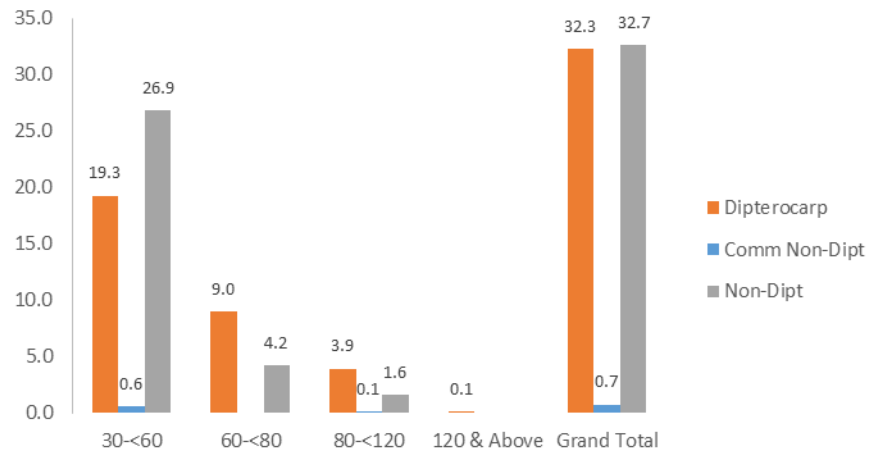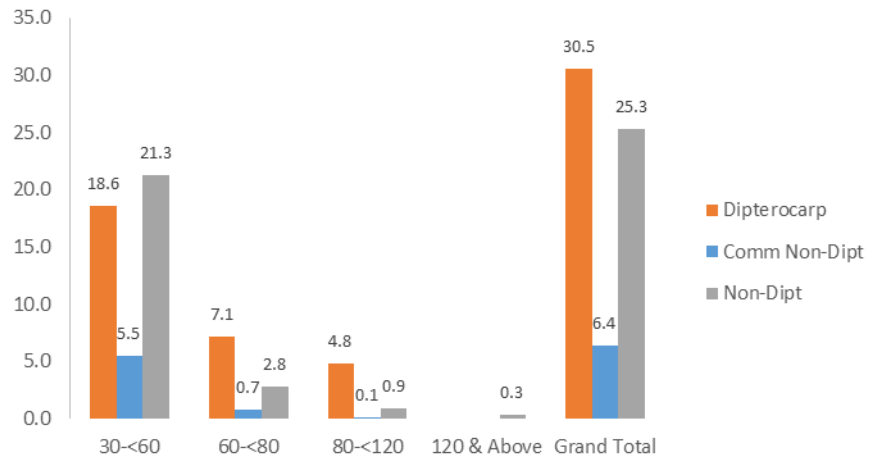

Compartment 53: Number of Tree ha-1 by DBH Class (cm)

Compartment 77: Number of Tree ha-1 by DBH Class (cm)

Legend:
- Dipterocarp
- Comm Non-Dipt
- Non-Dipt

DBH Class	Dipterocarp	Comm Non-Dipt	Non-Dipt
30-<60	18.6	5.5	21.3
60-<80	7.1	0.7	2.8
80-<120	4.8	0.1	0.9
120 & Above			0.3
Grand Total	30.5	6.4	25.3

2013 Data

Compartment 31: Number of Tree ha-1 by DBH Class (cm)

Dipterocarp — Non-Dipt

DBH Class	Dipterocarp	Non-Dipt
30-<60	21.31	23.99
60-<80	7.21	3.36
80-<120	3.19	0.67
120 & Above	0.84	
Grand Total	32.55	28.02

Compartment 71: Number of Tree ha-1 by DBH Class (cm)

Dipterocarp — Non-Dipt

DBH Class	Dipterocarp	Non-Dipt
30-<60	17.10	27.04
60-<80	4.72	4.07
80-<120	3.42	0.49
120 & Above	0.33	0.16
Grand Total	25.57	31.76

Compartment 72: Number of Tree ha-1 by DBH Class (cm)

Compartment 104: Number of Tree ha-1 by DBH Class (cm)

2014 Data

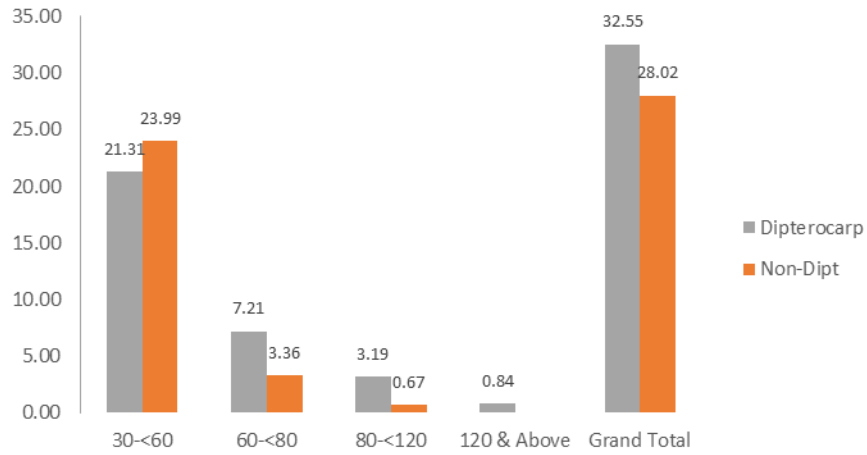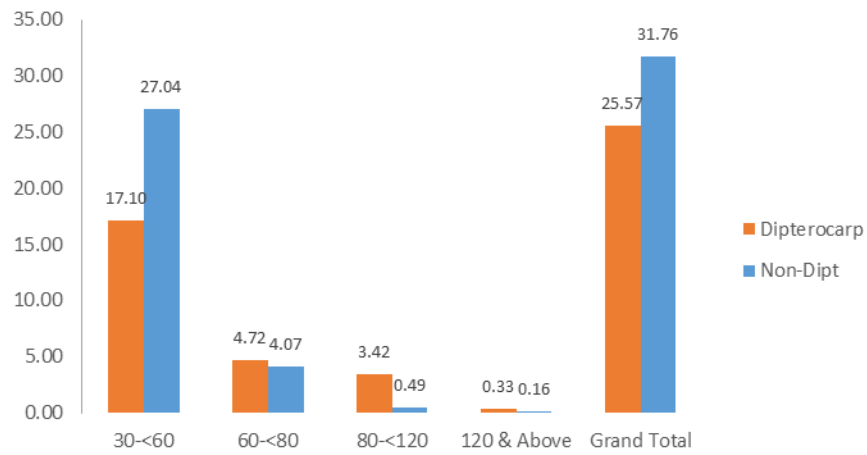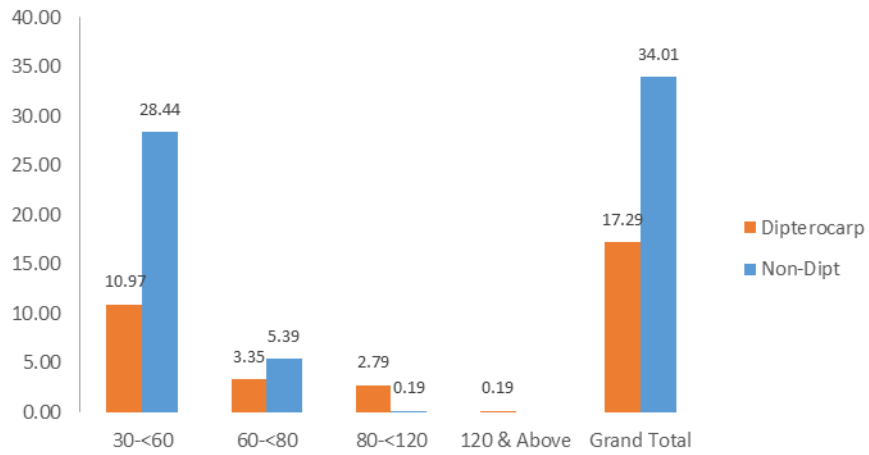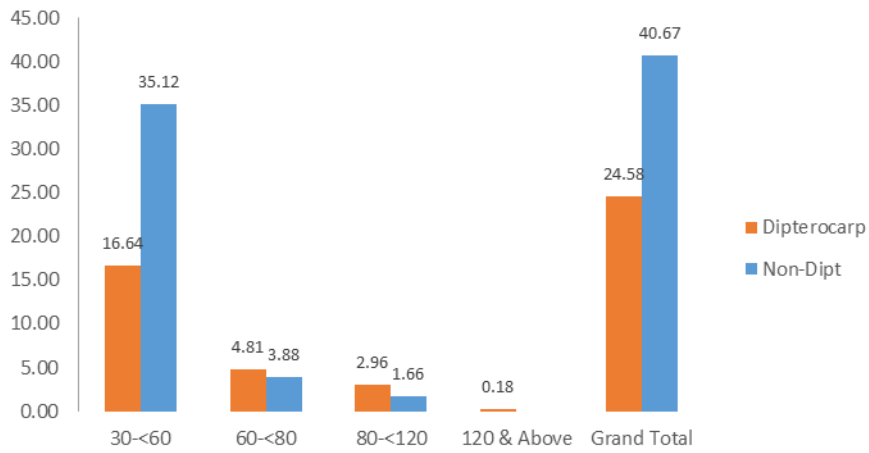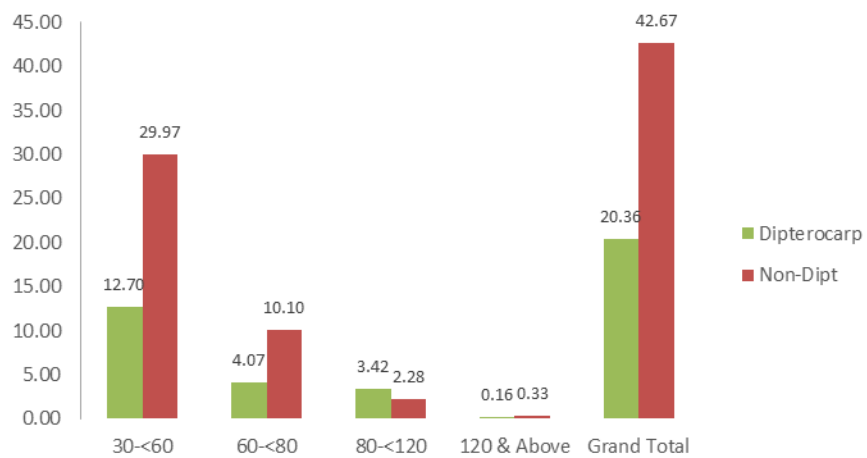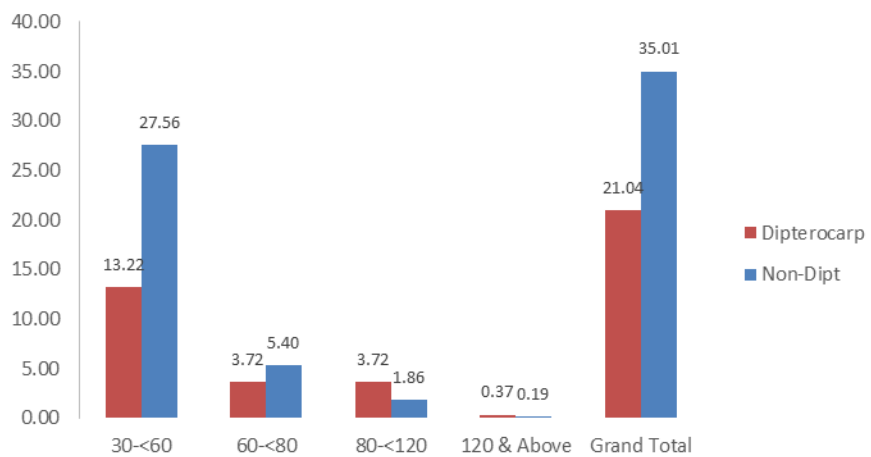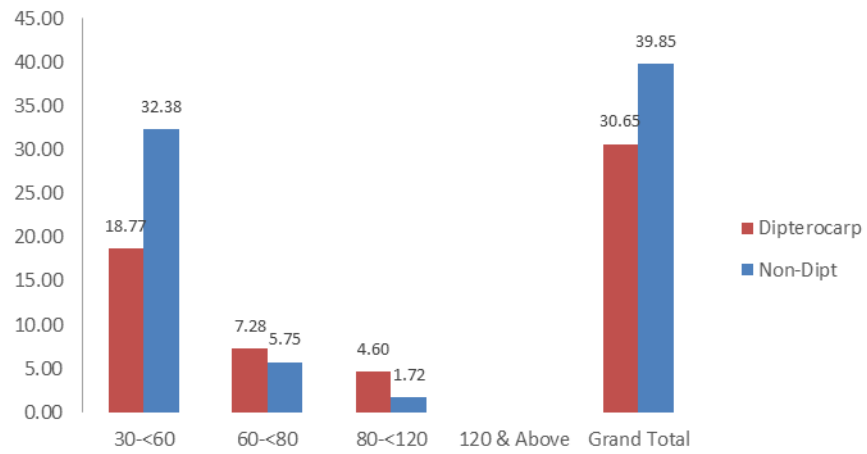Compartment 70: Number of Tree ha-1 by DBH Class (cm)

Legend: Dipterocarp, Non-Dipt

Values — 30-<60: 12.70 / 29.97; 60-<80: 4.07 / 10.10; 80-<120: 3.42 / 2.28; 120 & Above: 0.16 / 0.33; Grand Total: 20.36 / 42.67

Compartment 106: Number of Tree ha-1 by DBH Class (cm)

Legend: Dipterocarp, Non-Dipt

Values — 30-<60: 13.22 / 27.56; 60-<80: 3.72 / 5.40; 80-<120: 3.72 / 1.86; 120 & Above: 0.37 / 0.19; Grand Total: 21.04 / 35.01

Compartment 111: Number of Tree ha-1 by DBH Class (cm)