

GROWING STOCKS of the SUNDARBAN RESERVED FOREST in 2009

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Table 1. The number of seedlings, saplings, poles and trees in 2009 and 1996 in the Sundarbans

Spp	Poles 2.5-5	Poles 5-10	Poles 10-15	Trees	Seedlings	Saplings
2009	N/ha	N/ha	N/ha	N/ha	N/ha	N/ha
Sundri	2166	1596	234	205	34776	3044
Gewa	1984	2393	255	62	13235	1266
Others	854	375	18	30	5794	1236
1996						
Sundri	428	523	188	105	20522	3957
Gewa	476	560	184	18	5971	2627
Others	102	50	11	20	8231	1504

Distribution of poles and trees for different species in 2009 & 1996

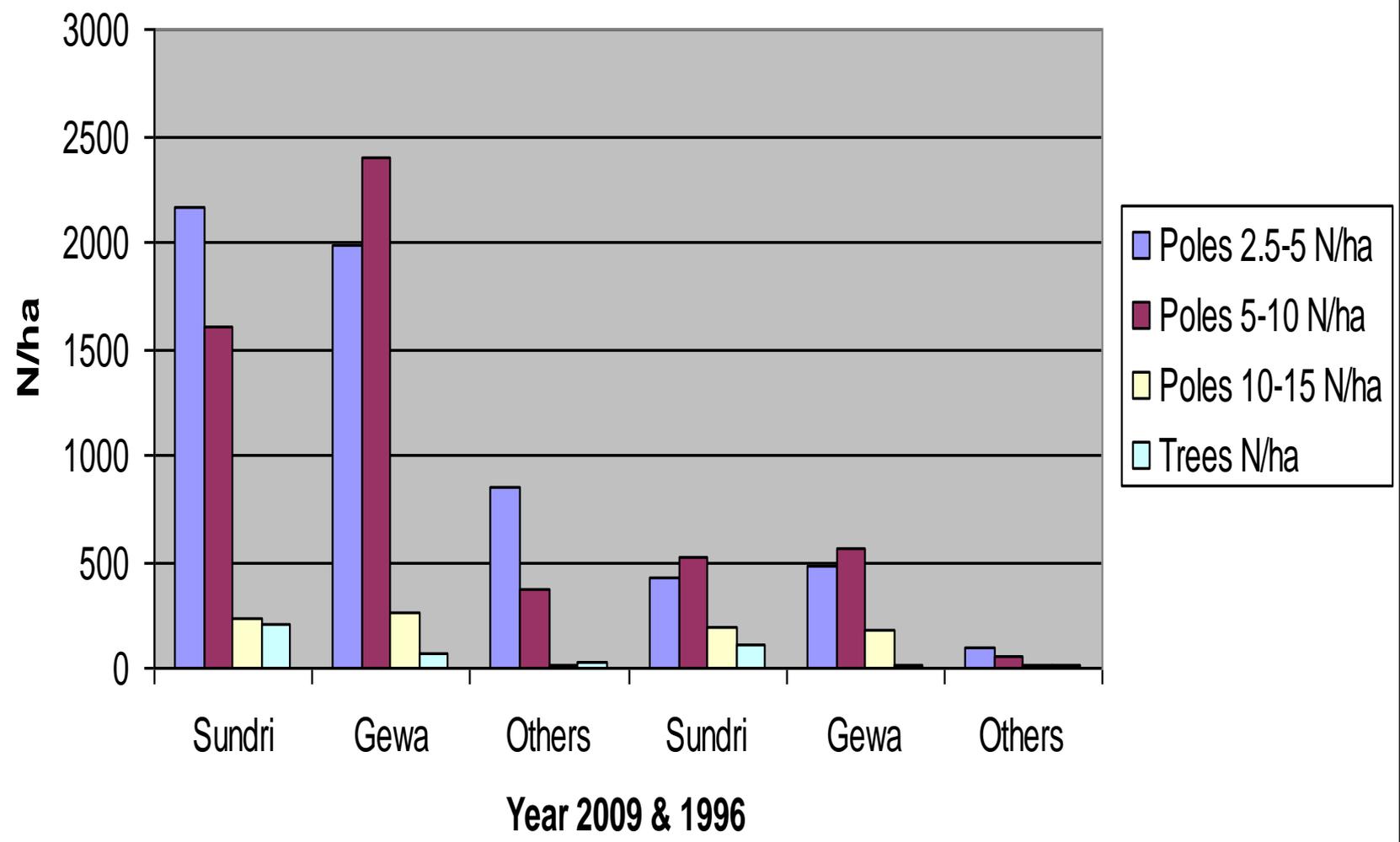


Table 2: Volume (m³/ha) of poles (DBH 10-15 cm) and Trees in Sundarban in 2009 & 1996

Species	Year 2009	Year 1996	Year 2009	Year 1996
Size class	Pole 10-15	Pole 10-15	Tree	Tree
Sundri	13.922	10.397	48.204	19.016
Gewa	9.844	6.647	7.84	2.268
Others	0.723	0.414	11.121	7.259
Total	24.49	17.457	67.166	28.543

Volume of poles (DBH 10-15 cm) and trees in Sundarban in 2009 & 1996

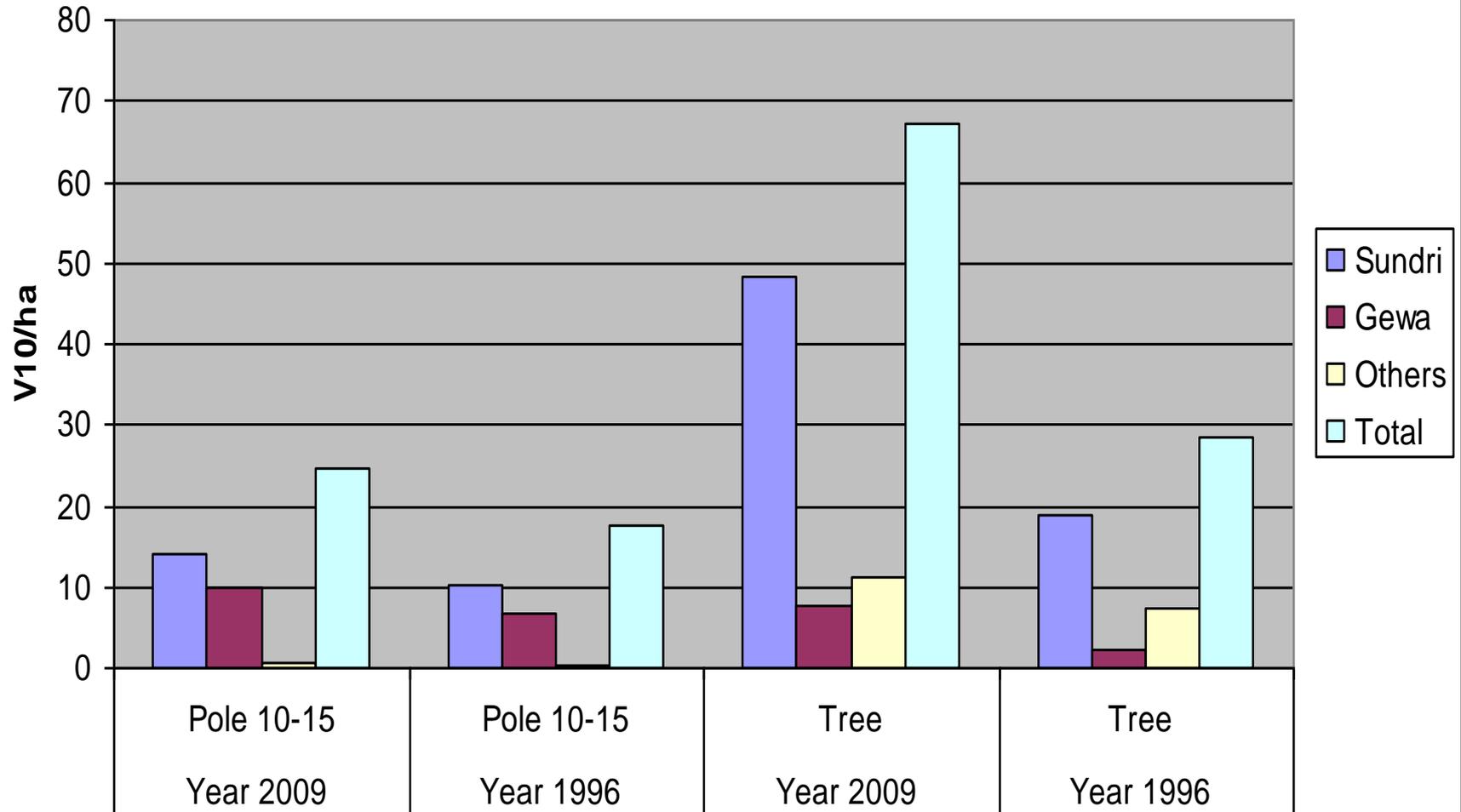
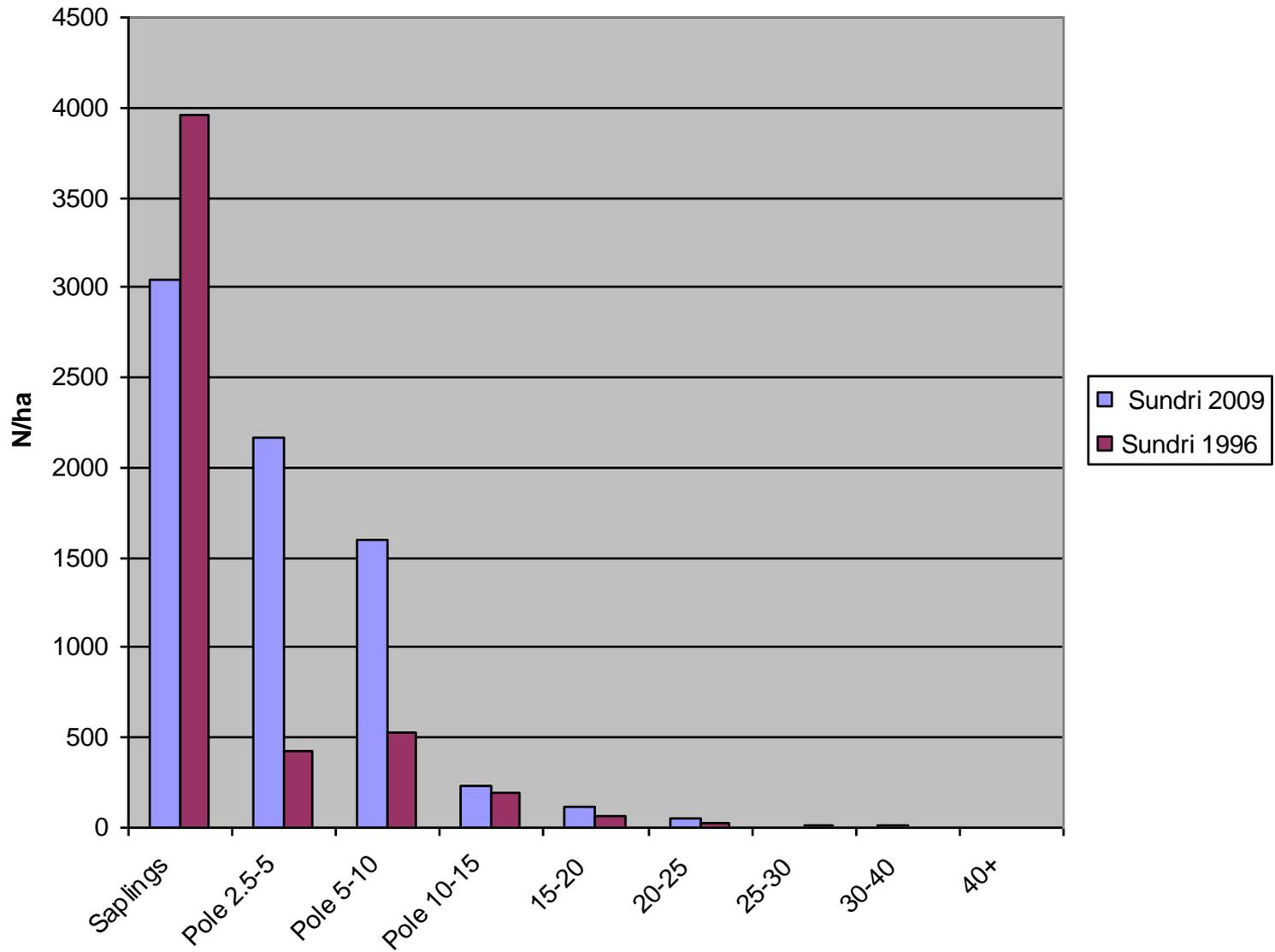


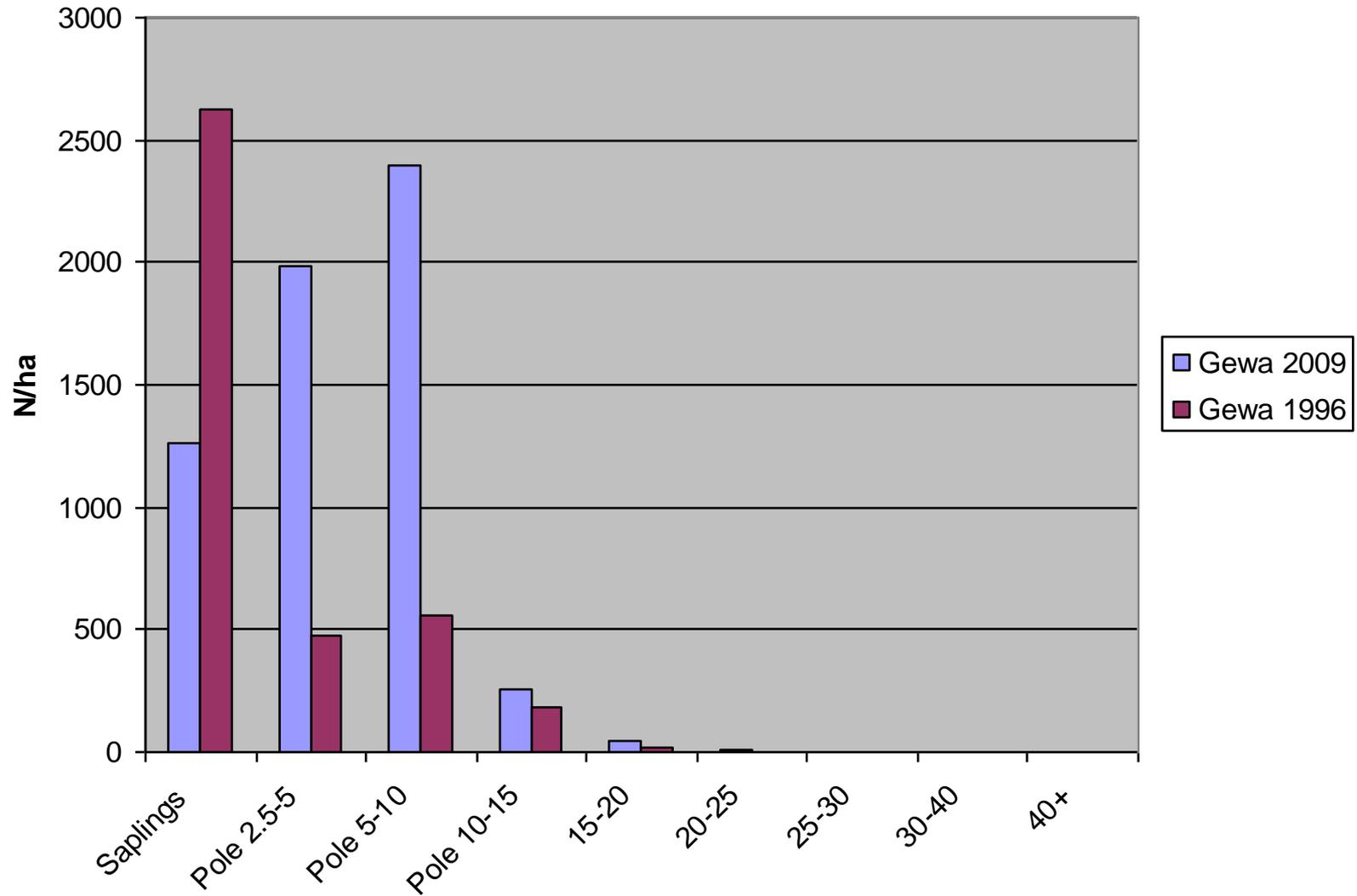
Table 3: DBH (cm) class distribution of different important species of Sundarbans in 2009 & 1996

DBH class	Sundri 2009	Sundri 1996	Gewa 2009	Gewa 1996	Others 2009	Others 1996
Saplings	3044	3957	1266	2627	1236	1503
Pole 2.5-5	2166	428	1983	476	853	102
Pole 5-10	1596	523	2393	560	375	176
Pole 10-15	234	188	255	184	18	11
15-20	117	63	50	14	8	5
20-25	54	30	9	3	7	4
25-30	1	8	0	1	0	4
30-40	11	3	1	0	5	4
40+	1	0	0	0	4	2
Total	7225	5201	5957	3865	2507	1812

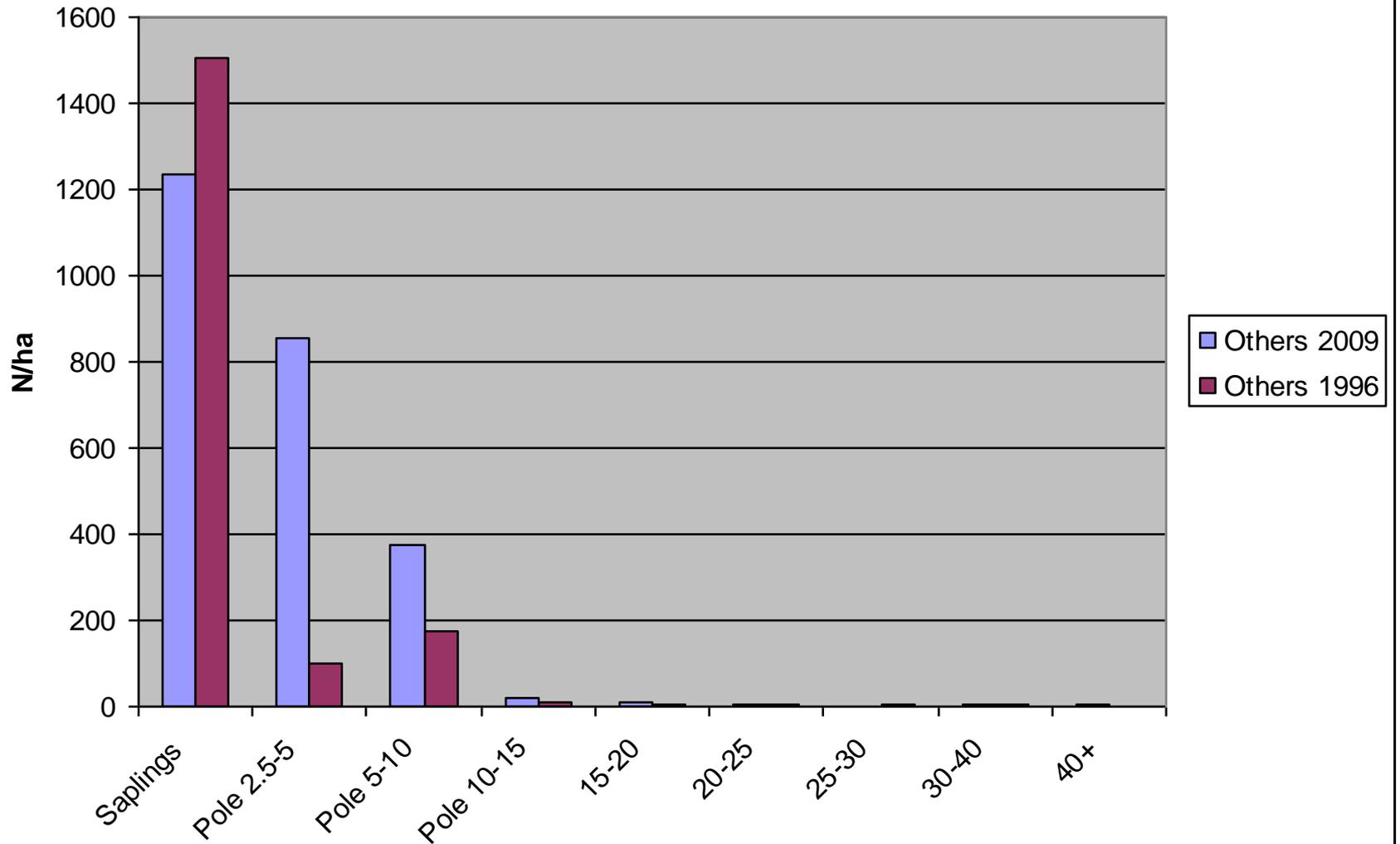
DBH Class distribution of Sundri in 2009 & 1996



DBH class distribution of Gewa in 2009 & 1996



DBH class distribution of Other species in 2009 & 1996



**Table 4: Comparative tree compositions
in 2009 and 1996**

Species	2009	1996	2009	1996	Change
	N/ha	N/ha	%	%	%
Sundri	205	105	69.00	73.58	-4.60
Gewa	62	18	20.77	12.70	8.10
Others	30	20	10.23	13.72	-3.60
Total	297	142	100	100	0

Tree species composition in 2009 & 1996

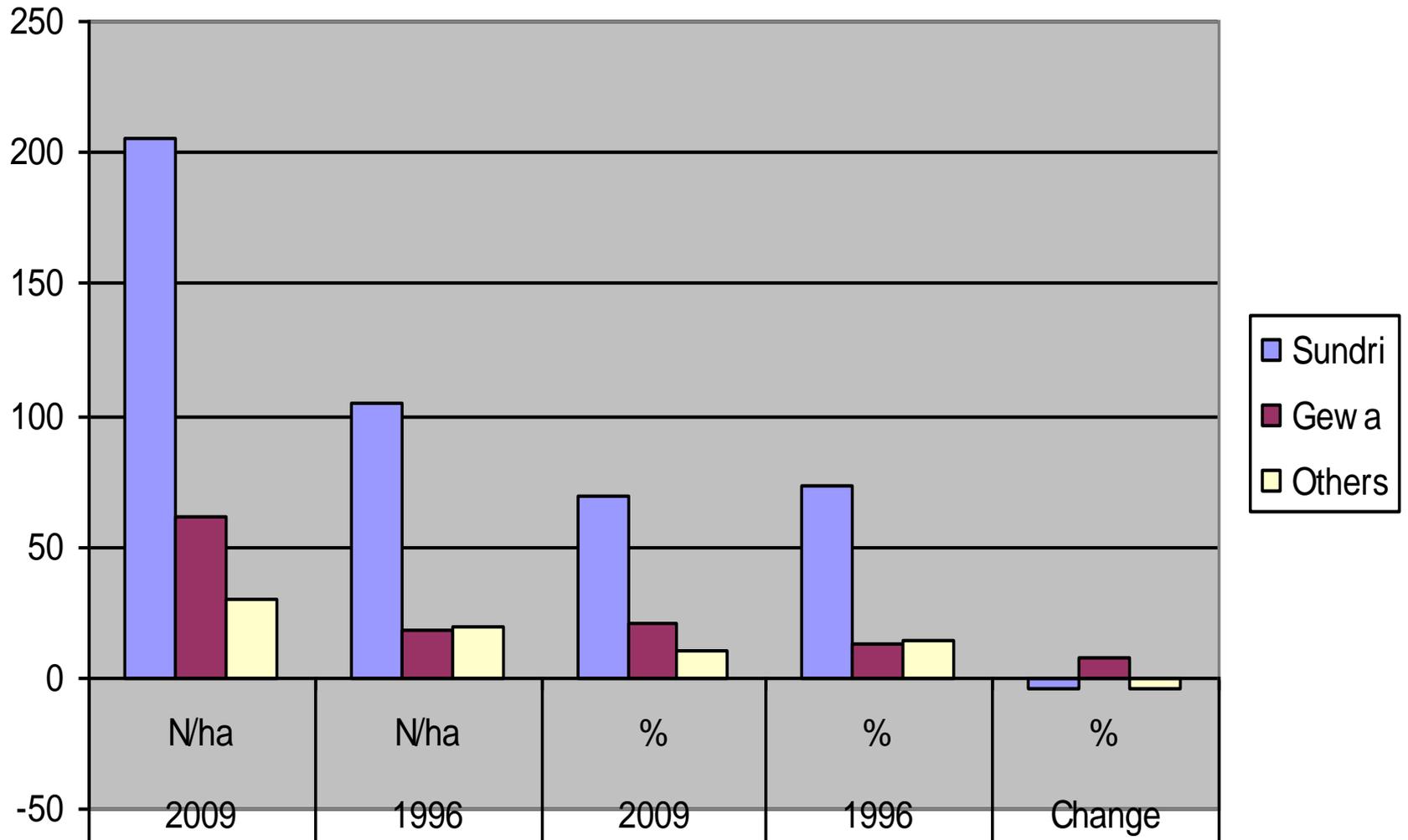


Table 5: Comparative species (Poles +Tree) compositions in 2009 and 1996

Species	2009	1996	2009	1996	Change
	Tree+ Poles	Tree+ Poles	%	%	%
Sundri	4201	1244	41.30	46.69	-5.39
Gewa	4693	1238	46.14	46.46	-0.32
Others	1277	183	12.56	6.85	5.71
Total	10172	2665	100	100	0

Species composition (Poles & Trees) in 2009 & 1996

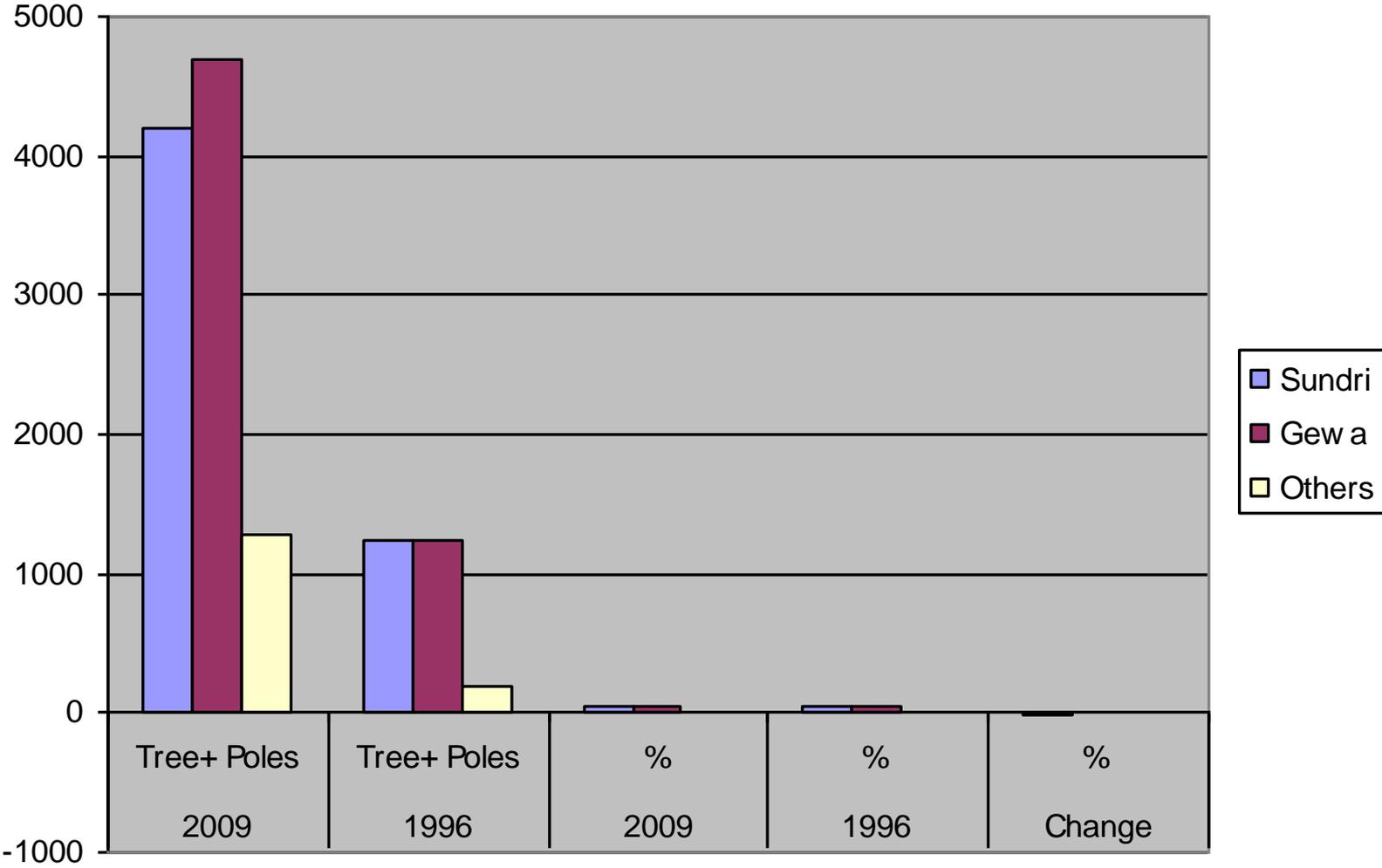


Table 6: Comparative per hectare estimate of no. of trees 15-cm DBH and bigger

	Sundri	Gewa	Others	Total
2009	205	62	30	297
1996	106	20	20	144
1983	125	35	20	180
1959	211	61	24	296

Stems/ha of species (trees) in 1959, 1983, 1996 & 2009

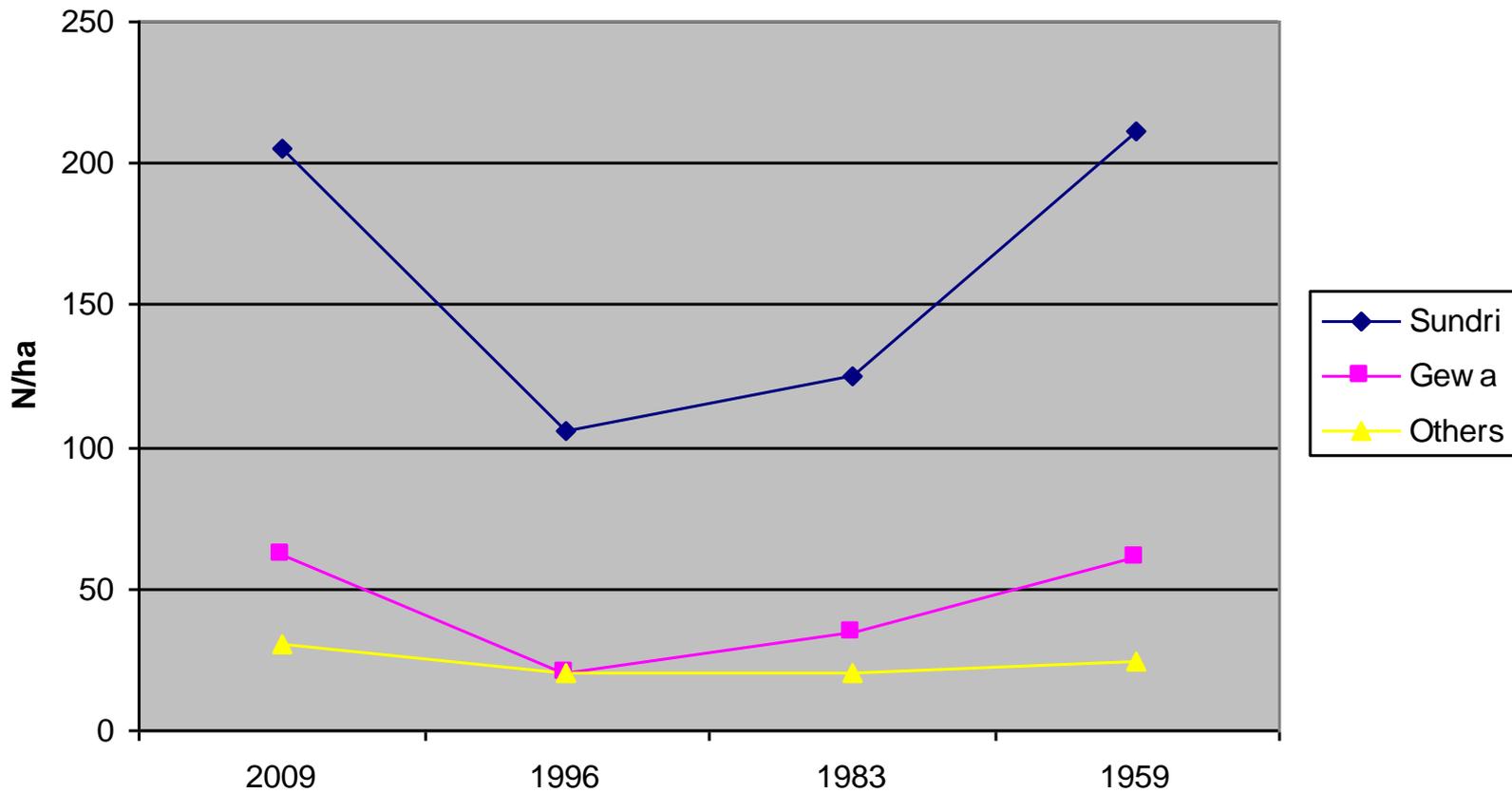


Table 7: Comparative per hectare estimate of volumes of trees 15-cm DBH and bigger

	Sundri	Gewa	Others
2009	48.2	7.8	11.2
1996	17.8	2.1	7.5
1983	19.9	2.7	7.1
1959	33.6	5	5.9

V10/ha of species (trees) in 1959, 1983, 1996 & 2009

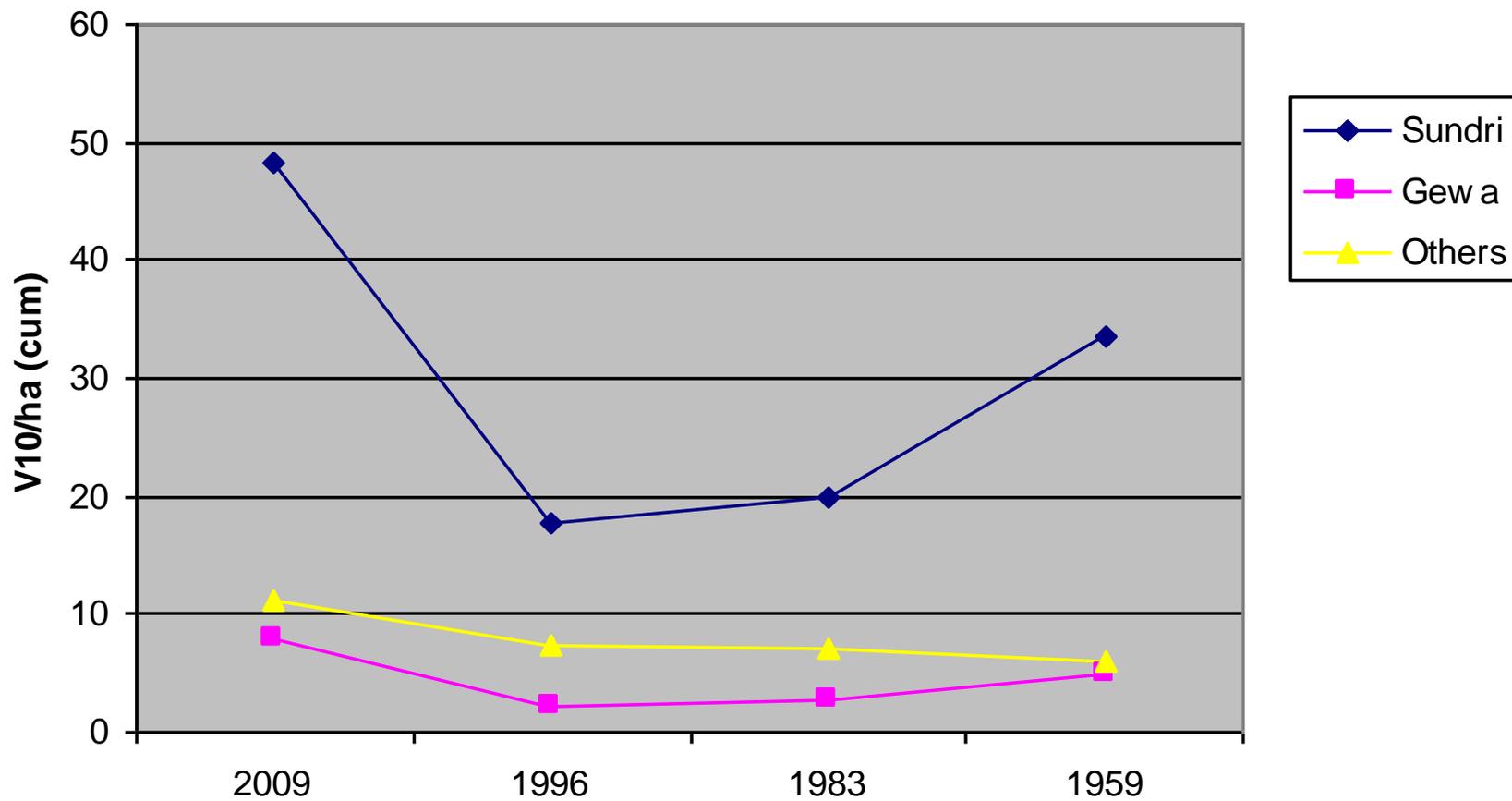


Table 8: Comparative per hectare estimate for number of stems of big pole & trees 10-cm DBH and bigger

	Species						
Year	Sundri		Gewa		Others		Total
	N/ha	%	N/ha	%	N/ha	%	
2009	439	55	317	40	41	5	797
1996	290	51.79	228	40.71	42	7.5	560
1983	296	53.14	224	40.22	37	6.64	557
1959	511	53.68	345	36.24	97	10.19	952

Stems/ha of trees with DBH 10+ estimated in different inventories of Sundarban

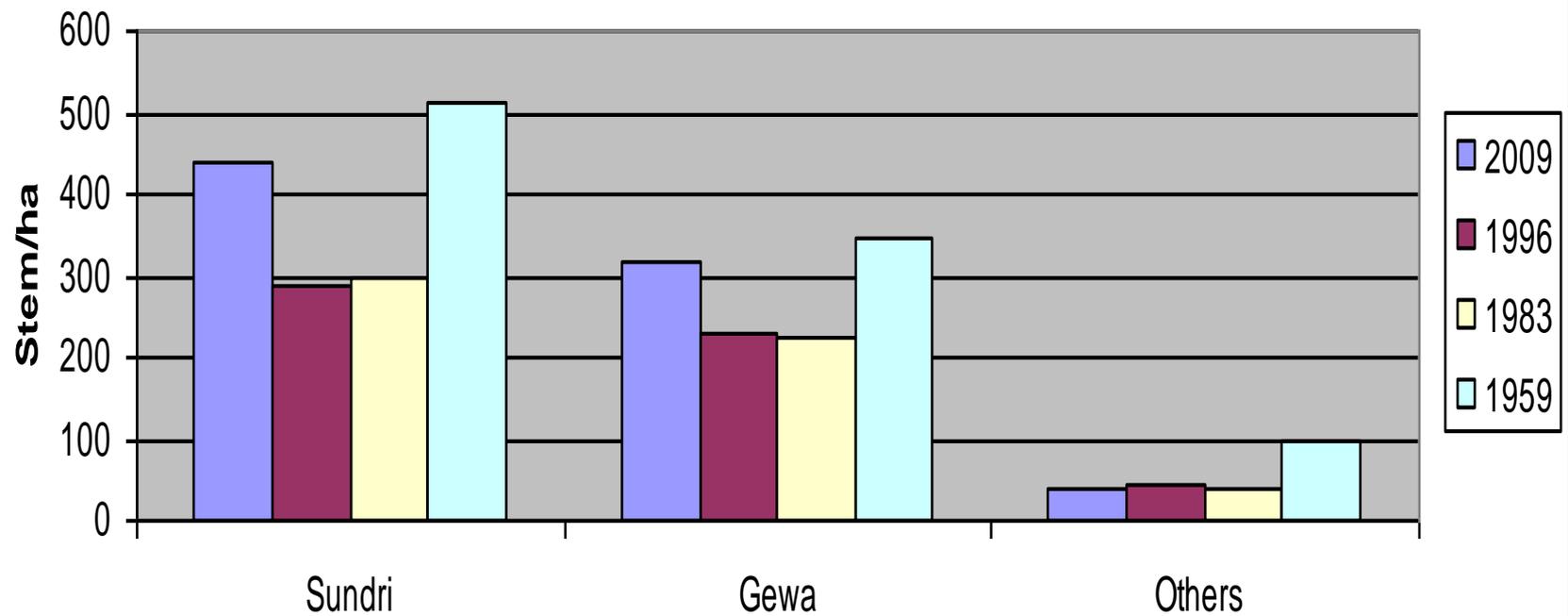


Table 9. Annual Allowable Cut (AAC) for different species in the Sundarban RF

Species	Growing Stock (V10/ha)	Increment (V10/ha)	AAC (V10/ha/year)	DBH limit (cm)	Total area (ha)	Estimated AAC (V10/ha/year)	Working Plan Suggested AAC (cum)	Removal of increment (cum)
1	2	3	4	5	6	7	8	9
Sundri	8.815	7.165	0.620	30	231159	143285	54000	82808
Gewa	0.462	0.410	0.033	15	296698	9887	53000	6081
Keora	0.945	-1.335	0.014	25	319201	4424	29852	-21308
Others	2.313	1.092	0.143	25	231159	33041	23000	12626

Estimated Annual Allowable Cut (AAC)

