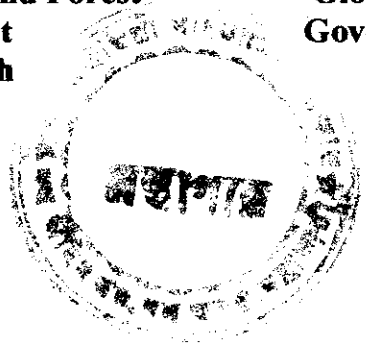
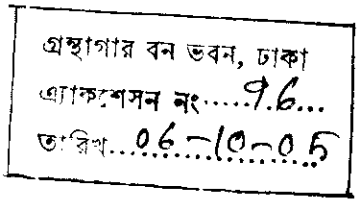
Government of the People's Republic of Bangladesh
Ministry of Environment and Forest
Forest Department
Dhaka, Bangladesh

Asian Development Bank
Global Environmental Facility
Government of the Netherlands



Sundarban Biodiversity Conservation Project



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Study of Top Dying of Sundri (*Heritiera fomes*) and its Management in the Sundarbans
Volume II: Appendices

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LIST OF APPENDICES

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Appendix 1: Data on the number of pneumatophores collected in October 2001 from 150 sub-plots of 36 sample plots at 12 landings in 10 compartments having none, slight, moderate and severe top dying of sundri in the Sundarbans.

Sclass	Compt	Sample Plot No.	Sub-plot No.	Number of pneumatophores
Moderate	26	1	1	21
Moderate	26	1	2	7
Moderate	26	1	3	22
Moderate	26	1	4	3
Moderate	26	1	5	3
Moderate	26	3	1	7
Moderate	26	3	2	7
Moderate	26	3	3	10
Moderate	26	3	4	8
Moderate	26	3	5	6
Moderate	33	1	1	23
Moderate	33	1	2	17
Moderate	33	1	3	17
Moderate	33	1	4	23
Moderate	33	1	5	16
Moderate	33	2	1	36
Moderate	33	2	2	21
Moderate	33	2	3	7
Moderate	33	2	4	26
Moderate	33	2	5	5
Moderate	36A	2	1	0
Moderate	36A	2	2	31
Moderate	36A	2	3	55
Moderate	36A	2	4	0
Moderate	36A	2	5	0
Moderate	40	1	1	41
Moderate	40	1	2	19
Moderate	40	1	3	29
Moderate	40	1	4	0
Moderate	40	1	5	0
None	2	1	1	33
None	2	1	2	28
None	2	1	3	27
None	2	1	4	55
None	2	1	5	30
None	2	2	1	116
None	2	2	2	40
None	2	2	3	104
None	2	2	4	46
None	2	2	5	116
None	2	3	1	168
None	2	3	2	140
None	2	3	3	34
None	2	3	4	38
None	2	3	5	92
None	19B	1	1	19
None	19B	1	2	0
None	19B	1	3	0
None	19B	1	4	35
None	19B	1	5	0
None	19B	3	1	29

None	19B	3	2	22
None	19B	3	3	0
None	19B	3	4	0
None	19B	3	5	0
None	20	2	1	21
None	20	2	2	3
None	20	2	3	14
None	20	2	4	30
None	20	2	5	22
None	20	3	1	30
None	20	3	2	52
None	20	3	3	31
None	20	3	4	34
None	20	3	5	36
None	36A	1	1	11
None	36A	1	2	26
None	36A	1	3	76
None	36A	1	4	0
None	36A	1	5	31
None	40	3	1	44
None	40	3	2	21
None	40	3	3	18
None	40	3	4	44
None	40	3	5	48
Severe	33	3	1	41
Severe	33	3	2	37
Severe	33	3	3	26
Severe	33	3	4	43
Severe	33	3	5	32
Severe	36B	1	1	4
Severe	36B	1	2	3
Severe	36B	1	3	9
Severe	36B	1	4	0
Severe	36B	1	5	8
Severe	36B	2	1	29
Severe	36B	2	2	45
Severe	36B	2	3	28
Severe	36B	2	4	19
Severe	36B	2	5	15
Severe	36B	3	1	0
Severe	36B	3	2	2
Severe	36B	3	3	23
Severe	36B	3	4	1
Severe	36B	3	5	0
Severe	37	1	1	40
Severe	37	1	2	0
Severe	37	1	3	0
Severe	37	1	4	9
Severe	37	1	5	6
Severe	37	2	1	5
Severe	37	2	2	10
Severe	37	2	3	16
Severe	37	2	4	8
Severe	37	2	5	14
Severe	37	3	1	6
Severe	37	3	2	10
Severe	37	3	3	11
Severe	37	3	4	12

Severe	37	3	5	12
Slight	11	1	1	144
Slight	11	1	2	30
Slight	11	1	3	57
Slight	11	1	4	100
Slight	11	1	5	59
Slight	11	2	1	57
Slight	11	2	2	49
Slight	11	2	3	41
Slight	11	2	4	26
Slight	11	2	5	28
Slight	11	3	1	42
Slight	11	3	2	38
Slight	11	3	3	57
Slight	11	3	4	46
Slight	11	3	5	17
Slight	19B	2	1	18
Slight	19B	2	2	10
Slight	19B	2	3	24
Slight	19B	2	4	0
Slight	19B	2	5	0
Slight	20	1	1	42
Slight	20	1	2	19
Slight	20	1	3	13
Slight	20	1	4	5
Slight	20	1	5	34
Slight	26	2	1	31
Slight	26	2	2	9
Slight	26	2	3	140
Slight	26	2	4	23
Slight	26	2	5	38
Slight	36A	3	1	25
Slight	36A	3	2	8
Slight	36A	3	3	35
Slight	36A	3	4	50
Slight	36A	3	5	1
Slight	40	2	1	8
Slight	40	2	2	59
Slight	40	2	3	28
Slight	40	2	4	44
Slight	40	2	5	7

Appendix: 2. Length of all pneumatophores (in cm) measured during the first field trip in October 2001 from 36 sample plots (each having four sub-plots) nine of which falling in each of severe, moderate, slight and no top dying sample plots in the Sundarbans.

Pneumatophore No.	Length of pneumatophores in cm from sample plots having severe top dying of sundri	Length of pneumatophores in cm from sample plots having moderate top dying of sundri	Length of pneumatophores in cm from sample plots having slight top dying of sundri	Length of pneumatophores in cm from sample plots having no top dying of sundri
1.	9.8	4.8	21.2	8.5
2.	6.9	7	19.4	6.7
3.	6.5	6.9	29.2	6.5
4.	19	7.8	26.1	15
5.	16	5.8	26.8	8
6.	27	3.9	28.8	4.5
7.	20.5	6.2	23.3	7.2
8.	6.7	6.6	9.8	6
9.	9.3	3.4	27.3	4.5
10.	9	6.8	14.1	8.3
11.	22	9.9	22.3	9.5
12.	11	6.6	34.5	3
13.	17	8.6	33.1	8.5
14.	21.5	3.8	14.1	8.2
15.	12	9.5	21.2	11
16.	4.5	6.4	11.3	5
17.	8	8.5	19.8	12
18.	20	3.8	13.1	5
19.	12	10	16.1	2.8
20.	29	6.8	27.8	2.2
21.	11.5	12.5	25.8	6
22.	5	2.5	14.9	8.5
23.	5.1	2.3	21.3	7.5
24.	29	9.8	37.1	9
25.	14	4.8	36.1	9.4
26.	19	9.4	15.5	9.7
27.	7	4.4	22.5	7.5
28.	8	8.9	15.2	8
29.	7.2	11.8	24.6	13
30.	6.5	10.2	20.3	4.4
31.	18	9.8	32.1	9
32.	21	11.3	14.2	5
33.	7.7	3.4	17.3	12.8
34.	9.8	9.8	15.3	3
35.	8.5	3.3	24.1	9
36.	10	4.9	13.3	4
37.	27	8.2	30.6	8
38.	27	10.3	21.3	6
39.	8.9	6.8	27.8	7.8
40.	6	9.8	16.7	9
41.	14	3.4	29.5	10
42.	7	6.6	30.3	2.8
43.	15	10	19.8	9.2
44.	19	9.2	19.3	8.1
45.	6	5	30.1	6
46.	7.6	6.8	18.7	7
47.	17	6.3	14.1	10
48.	23	5.8	30.1	9.3
49.	16	6.4	24.3	3
50.	23	6.8	29.3	10
51.	22	6.9	34.2	10
52.	3.8	2.9	32.5	13
53.	10.2	9.2	5.1	10.5
54.	12.5	25	24.3	8
55.	9.8	15	26.1	15
56.	9.9	6.5	7.8	14.5
57.	8.3	18.5	22.5	12
58.	14	10	5.1	7.5
59.	6.7	17.2	20.3	6
60.	19	18.5	11	10.2
61.	12	26	9.2	5.2

62.	4.1	12.9	6.3	11
63.	17	16	36.1	11.5
64.	24	9.8	21.5	5
65.	11	25	15.5	6
66.	10.2	16	33.9	5
67.	13.3	16.5	4.5	7.1
68.	23.5	19	30.2	6
69.	11.5	19.3	14.8	3.5
70.	8.9	16.5	12.1	6.4
71.	9.8	2.4	24.1	12
72.	21	18.6	5.6	8
73.	8.9	9	9.3	8.9
74.	9.9	14	32.6	12
75.	9.5	25	26.3	11
76.	9.8	17	26.5	9.2
77.	7	21	20.3	15.2
78.	7.5	24	24.2	14.2
79.	10.2	19.5	16.1	8
80.	2.4	10	16.3	7.2
81.	7.2	10.5	9.5	10.1
82.	9.2	9.5	14.1	13.3
83.	11	12.6	14.1	9.5
84.	15.5	5.9	12.3	5.6
85.	24	14	21.1	13
86.	16.5	17	16.7	15
87.	3.6	12.5	28.2	16
88.	18	6.8	28.6	15
89.	10	9.8	16.5	11.5
90.	11	6.8	32.1	8.5
91.	14	16	26.1	12
92.	14	12	11.3	11.2
93.	6.5	6.6	26.5	8.5
94.	12.5	11.2	4.3	19
95.	19	9.3	9.8	14
96.	11	9.8	16.1	7.5
97.	12	14	26.5	12
98.	15	18	28.2	13.2
99.	11	13	36.2	8.5
100.	14.5	6	14.8	3
101.	11	22	8.4	9.5
102.	9	8	28.5	16.5
103.	13	25	30.2	12.6
104.	10	16	22.1	9.5
105.	10	8	12.6	11.2
106.	18	11.3	20.5	9
107.	9	9	36.1	8.2
108.	18	19.6	7.3	11.5
109.	18.2	31.5	3.4	15
110.	10.5	14.8	11.1	12
111.	7.5	9.8	10.3	8.1
112.	22	16.5	17.1	3
113.	25	11.5	16.3	9.8
114.	10.5	13.3	4.2	7.5
115.	14	12	16.6	14
116.	8.5	16	22.3	10
117.	3.8	15	10.1	13.5
118.	4.8	10	22.1	13
119.	14.5	13.5	14.5	7.5
120.	11	9.8	8.5	7.6
121.	8.2	28.5	16.8	7.5
122.	8.7	6.8	18.1	13
123.	15	15	12.3	6.4
124.	12.3	23	22.3	11.5
125.	13	6	8.5	11.4
126.	2.5	11.2	16.5	14
127.	7.3	14	13.3	8
128.	12	21	23.1	7.5
129.	4.8	9.5	17.2	14
130.	13	6.8	21.2	19
131.	12.3	11.9	3.9	8.4
132.	7.5	13.5	14.2	12.5

133.	12.2	21	18.3	16
134.	9.8	29	18.5	8
135.	5.9	8.9	19.1	13.2
136.	9.5	6.8	13.1	8
137.	5.5	15.7	12.1	6
138.	7	14.8	13.2	7.6
139.	6.8	10.1	14.1	13.4
140.	11.3	18	16.3	12
141.	3.4	5	14.8	4.5
142.	11	22	13.2	11.5
143.	12.5	2.8	28.8	19
144.	4.5	18.5	5.6	15
145.	6.6	9.8	18.2	10.2
146.	14.5	9.9	5.1	7
147.	23	11.2	16.7	8
148.	19	5.6	11	6
149.	9.9	12	11.5	9
150.	7.5	6.5	12.5	5.4
151.	19.5	7.8	7.8	10
152.	16	19	8.5	21
153.	3.8	2.8	20.1	11.5
154.	4.5	10.2	11.1	14.5
155.	9.5	14.5	22.2	7
156.	27	14	9.8	4
157.	9.5	17	14.6	9.5
158.	8.8	15.5	4.1	11.6
159.	8	20.1	19.5	2.5
160.	13	8.5	7.8	5.4
161.	8.6	6.5	25.3	8.5
162.	12.8	16	13.1	4.5
163.	12	13	19.2	12.6
164.	12	18	27.1	15
165.	6.6	10.5	12.7	2.5
166.	13.5	16.5	15.2	6
167.	13	12.5	13.4	14
168.	8	16.5	15.4	11
169.	12.5	23	15.6	12
170.	6	14.5	23.6	6
171.	7	12	20.2	11.2
172.	9.8	5.5	19.7	6
173.	6.8	11.2	9.8	3
174.	9.2	9.8	16.3	9
175.	13.2	24	16.1	17
176.	13	9.8	28.5	6.8
177.	9.5	9.8	16.1	6.2
178.	6.4	18	15.3	8.6
179.	10	22	7.2	8.5
180.	6.4	13	23.5	5.6
181.	10.2	14	9.8	12
182.	6.2	3.8	26.1	8
183.	11	10.2	3.4	12
184.	10.2	16.3	5.1	9
185.	5.5	14.5	8.9	6.5
186.	8.5	6	32.1	9.5
187.	12	19.8	10.5	8.5
188.	9.5	9.8	27.1	8
189.	7.2	6.9	11.3	5.6
190.	14	17	2.2	7.2
191.	8	12.2	10.2	4
192.	8.4	2.8	25.6	4.9
193.	14	6.8	4.6	14.5
194.	17	11	22.3	9.4
195.	9.9	17.5	5.3	8.5
196.	6.1	9.8	29.8	18
197.	3	9.6	8.7	10
198.	12	6.3	29.8	7
199.	4.5	6.4	14.2	15
200.	17.4	20	21.1	10
201.	7.8	9.8	15.6	7.4
202.	12	3.8	33.1	9.5
203.	15	9.3	13.4	7

204.	9.6	4.5	4.5	10.5
205.	8.6	6.8	5.8	11
206.	4	2.9	8.2	5
207.	4.5	22	22.8	9
208.	12	14.8	27.6	12
209.	6.8	27	22.1	13
210.	17	2.8	10.8	6.3
211.	12	13	25.5	8
212.	11	15	9.7	6
213.	7.5	2.8	27.8	7.8
214.	9.2	18.5	25.2	8
215.	9.2	17	6.7	3.5
216.	9.6	9.8	20.9	7
217.	9.9	8.9	20.2	15
218.	8.4	2.6	33.3	11
219.	3	17	18.6	6.5
220.	13	7.5	18.7	15
221.	4	12	15.2	9.5
222.	4.5	5.2	8.2	8.4
223.	4	6.5	21.9	12
224.	3	2.8	18.7	15.5
225.	3.9	8.9	12.1	3
226.	6.4	7.9	14.2	14
227.	10.5	8.5	11.2	17.8
228.	4.2	19.5	13.3	18
229.	4.5	11.2	9.5	9.5
230.	8	8.5	31.2	4
231.	12.5	10.3	15.2	10
232.	7.5	20	21.3	17
233.	9	20	16.7	11
234.	11.5	13	4.8	11
235.	8	30	18.1	16
236.	8.4	7.5	12.3	11
237.	8.8	9.6	28.6	10
238.	4	7.6	14.1	5.4
239.	8	28.2	19.7	16.5
240.	3.5	15.2	33.2	10
241.	12	11.5	17.6	19
242.	9.9	2.8	19.7	8.5
243.	5	10.8	13.2	10
244.	6.7	10.7	14.8	17
245.	3	15.7	13.9	4
246.	7.5	2.8	17.2	8.6
247.	6.9	12.8	34.5	8
248.	7.2	9.8	21.2	12.5
249.	5.5	14.8	5.6	7.5
250.	3	10.7	13.3	8
251.	4	14.7	19.8	10.5
252.	5	4.9	13.6	10
253.	4.8	18.2	27.8	14.8
254.	9.5	9.5	27.1	18
255.	6.4	15.6	2.1	7
256.	4.5	4.2	19.6	8
257.	2.4	15	15.6	5.2
258.	5.7	6.2	12.1	18
259.	17	11.6	26.6	14
260.	13	7.8	9.8	12.5
261.	9.8	13	3.4	18
262.	4.5	3.2	10.1	20
263.	4	12.2	3.4	4.5
264.	12	9.6	20.5	9.5
265.	6.4	15.6	13.7	13
266.	6.4	15.7	17.6	5
267.	12	18.2	14.5	13
268.	4.2	17	17.2	13
269.	11.5	7.8	9.2	10
270.	4.5	15.7	19.3	14.5
271.	11	13.8	18.7	14.5
272.	12	20	15.6	4
273.	9.3	11	16.3	13
274.	4.2	13.6	15.6	12

275.	9.5	22.3	25.2	9
276.	14	3.2	18.7	12
277.	12.2	18.1	25.2	12.4
278.	9.8	10.2	13.6	15
279.	6.2	20.2	12.7	11
280.	12	4.2	19.8	5
281.	12.5	8.2	7.8	15
282.	4	15.2	24.1	12.6
283.	7	20.1	13.1	6.5
284.	15.4	3.6	15.6	11.5
285.	9.8	20.8	17.8	12.8
286.	8.8	4.1	19.2	10
287.	6	15.2	26.3	9.5
288.	12.3	5.2	19.4	7.5
289.	7.6	7.6	17.3	13.5
290.	7.9	10.6	30.1	19.5
291.	12.5	6.1	15.7	5
292.	6.8	7.2	12.2	12
293.	6.2	8.9	30.3	9
294.	11.5	15.7	19.9	8.7
295.	8.6	7.2	24.1	12
296.	10.2	13.2	12.4	10.7
297.	19.5	20.2	20.1	17
298.	8.5	15.4	20.1	5.5
299.	7.6	13.6	30.1	6.5
300.	4.2	13.2	19.7	7.5
301.	12.5	3.2	17.7	12.7
302.	12	11.1	29.6	11.5
303.	4	8.6	34	17
304.	3.5	4.2	32.4	6
305.	9	3.4	25.6	14
306.	9.2	8.1	16.7	5.8
307.	8.3	7.5	18.7	9
308.	4.9	5.2	23.1	14
309.	5	5.1	14.7	17
310.	9	7.6	31.2	11.6
311.	11	11.6	19.8	9.2
312.	16	4.9	20.2	17
313.	8	2.5	9.2	16
314.	5.7	9.1	9.7	6.2
315.	9.4	16.1	17.8	13
316.	13.8	6.4	22.3	7.8
317.	8.2	2.1	6.7	15
318.	11.2	7.2	14.4	4.2
319.	9.2	7.2	8.8	17
320.	17.5	3.2	8.8	8.4
321.	14.2	3.9	9.4	6.5
322.	8.5	3.1	25.1	7.5
323.	4.5	7.6	19.5	11
324.	8	10	8.7	14.5
325.	11	4.7	3.7	16.5
326.	12.2	7.9	16.3	16.2
327.	5.3	7.9	26.3	4
328.	12	7.6	19.7	12
329.	5.5	3.6	28.2	7.5
330.	3.3	9	9.8	4
331.	13.5	15.2	4.5	9
332.	5	13.6	10.7	14
333.	9.2	9.2	29.8	18.5
334.	6.5	11.6	23.4	17
335.	10.1	3.9	8.8	11.5
336.	6.5	7.2	21.4	6.5
337.	11	9.3	11.4	7.8
338.	9.5	10.5	38.2	15.5
339.	9.8	16.1	11.9	2
340.	3.2	10.1	30.4	13.5
341.	7	10.4	24.5	10
342.	8	12.4	14.4	4.2
343.	7.5	15.2	23.6	17.5
344.	9	10.2	13.5	7.2
345.	8.5	5.1	17.8	6

346.	8	7.8	13.4	8
347.	9	13.1	39.4	11.5
348.	7.8	6.2	11.4	14
349.	4.5	4.2	18.3	11.2
350.	5.5	12.2	9.9	8
351.	12.8	16.1	9.8	7
352.	13	7.3	3.4	12.7
353.	5	6.1	3.7	4
354.	8.5	3.6	13.5	5
355.	9	13.1	35.3	11
356.	9	5.4	8.7	10
357.	6.4	7.2	17.2	11
358.	9.3	10.1	14.5	12
359.	9	13.2	25.5	9
360.	3	10.4	11.4	11
361.	5	12.1	16.5	7.8
362.	12.2	12.9	18.3	2.5
363.	3.2	18.6	16.3	12
364.	13.5	11.6	17.3	18
365.	10	13	12.3	3.5
366.	16	14.2	33.4	4.6
367.	7.8	16	16.7	17.5
368.	6.7	10.1	18.4	13.4
369.	6.8	19.2	8.3	11
370.	8	14.1	13.8	13.5
371.	11.5	11.4	8.1	6.9
372.	8	4.9	29.1	6.8
373.	6	20.2	8.6	5.5
374.	22	14.1	9.6	4.5
375.	16.3	18.1	20.5	2
376.	18.8	5.6	23.4	18
377.	13.1	17.2	6.5	5
378.	8.5	11.4	17.7	6.2
379.	23.1	13.1	17.2	12.2
380.	20.5	17.6	14.3	7
381.	10.1	16.1	8.5	6.7
382.	15.5	12.4	24.4	8.5
383.	19.5	12.6	24.9	12.8
384.	11.4	19.1	6.7	6.8
385.	21.5	15.2	12.8	9
386.	8.2	12.1	8.3	7.2
387.	9.1	14.2	11.4	11.6
388.	12.5	4.9	11.3	5.6
389.	12.1	13.1	16.4	8.3
390.	5.6	13	26.7	8
391.	5.2	18.6	9.7	8.2
392.	7.9	13.1	12.6	17.5
393.	9.4	6.6	6.4	4.5
394.	13.9	8.8	22.6	19.6
395.	7.8	22.1	22.1	7.5
396.	4.3	15.2	23.6	10.2
397.	23.8	7.1	15.4	9.2
398.	23.5	9	12.8	12
399.	26	22.3	16.1	7.2
400.	15.3	17.1	23.4	10.2
401.	2.3	10.1	25.5	16
402.	30.2	8.8	16.3	8.5
403.	25.1	8.7	3.4	8.6
404.	19.3	18.1	24.4	4.7
405.	14.3	13.1	17.4	17
406.	9.8	12	11.3	5.6
407.	17.2	6.9	27.8	9.3
408.	15.3	14.1	24.4	11.2
409.	17.2	12	13.4	11.6
410.	16.2	14.2	8.7	12
411.	12	8.1	19.4	7.5
412.	22.1	10.2	9.4	4.6
413.	22.4	9.2	30.4	12.2
414.	23.6	13.1	23.3	6.5
415.	5.1	8.2	18.7	8.5
416.	18.1	12.1	5.8	13

417.	13.1	18	20.3	11
418.	18.4	14.1	8.6	15.7
419.	20.1	9	23.3	13.4
420.	6.8	11.2	2.8	6.8
421.	13.5	14	17.8	14.5
422.	14.1	20.1	16.7	4.6
423.	25	10.2	17.2	11
424.	21.4	8.2	5.5	7.2
425.	20.1	12.1	7.8	10.2
426.	18.8	10.4	28.4	24.2
427.	14.6	4.5	15.5	14.6
428.	10.1	8.4	26.5	8.6
429.	26.2	14.1	13.3	16
430.	19.3	14.1	15.6	7.5
431.	13.2	9.1	9.3	5.2
432.	5.2	8.1	25.3	8
433.	28.1	10.2	22.4	17.5
434.	20.2	12.2	29.5	22.6
435.	7.3	7.1	17.3	11.2
436.	25.4	8.2	19.3	17
437.	6.2	8.1	17.5	6.8
438.	12.8	12.1	25.4	12.5
439.	28.8	7.9	8.7	11
440.	10.2	9.4	33.2	13
441.	26	8.6	27.4	8.5
442.	20.1	13.5	24.3	4.6
443.	14.2	6.1	7.8	3.4
444.	28.5	17.3	16.4	11
445.	18.3	7.1	3.7	12
446.	20.5	13.4	22.4	8.2
447.	27.5	12.1	25.4	5.6
448.	30.1	12.1	14.4	8
449.	17.5	7.6	7.5	12
450.	9.2	11.2	33.4	4.2
451.	17.4	11.2	4.8	7.8
452.	21	11.6	23.2	9
453.	8.2	9.1	29.4	12
454.	20.2	12.1	12.4	3.6
455.	21.5	10.2	6.5	11.2
456.	18.4	10	29.6	4.2
457.	19.5	17.2	16.2	10
458.	11.2	11.1	28.4	9.6
459.	30.1	19.4	12.3	7.5
460.	11.3	28.1	9.3	10.5
461.	2.1	12.2	6.7	7.3
462.	13.1	11.2	8.6	15
463.	14.1	26	19.1	11.2
464.	6.5	29	13.4	7.5
465.	6.1	18	18.4	6.8
466.	13.2	11.6	6.5	5.6
467.	15.1	13.1	5.5	5.6
468.	12.3	19	23.3	11.2
469.	14.2	7.8	4.8	8.5
470.	15.1	13.1	22.2	9.5
471.	24.5	14.2	13.4	5.6
472.	23.2	24.1	8.8	2.5
473.	16.6	8.2	12.4	9.5
474.	26	14.2	12.5	9.5
475.	17.9	24.1	18.5	9.2
476.	25.1	27.2	17.2	6.6
477.	21.2	11.4	15.3	3.4
478.	9.2	24.1	7.5	13.5
479.	21.2	15.1	22.3	8
480.	28	3.2	18.4	8.5
481.	19.2	13.8	11.4	14
482.	24.5	15	13.4	15.6
483.	21.1	18.1	13.5	9
484.	17	19.8	9.4	12.5
485.	20.3	15.6	18.3	13.2
486.	23.4	23	16.4	9.5
487.	18	23.1	9.4	5.6

488.	18.3	17.2	18.4	13
489.	19.6	19.8	18.4	15.5
490.	12.6	18.5	7.8	9.5
491.	21.8	21	23.7	10
492.	22.8	8.9	16.8	9.6
493.	17.8	7.5	8.7	12
494.	20.8	6	19.1	10.2
495.	9.4	14	16.7	6.5
496.	28.4	11.1	13.3	9.5
497.	18.2	24	24.3	11.5
498.	7.1	16.7	10.3	9.2
499.	26.8	4.2	9.8	11.2
500.	15.1	7.2	16.3	26
501.	16.3	14.2	18.8	10.5
502.	19.2	12.6	12.4	4.3
503.	14.7	7.9	11.3	7
504.	17.8	13.1	15.6	11
505.	5.2	9.8	19.4	8
506.	15.6	8	13.3	6.7
507.	13.5	16.2	29.4	8.6
508.	19.5	13.9	18.4	5.8
509.	23.4	19.6	16.4	5.5
510.	12.4	9.2	18.8	19
511.	17.4	11	22.2	15.5
512.	24.3	6.5	18.4	14.5
513.	18.1	14	8.8	6.2
514.	14.5	8.1	20.4	8.5
515.	25.5	10	13.6	5.5
516.	7.6	20.8	12.4	6.4
517.	19.6	7.5	9.5	6.5
518.	11.4	21.2	17.5	6
519.	19.8	21	25.3	10
520.	23.4	13.5	22.3	7
521.	27.2	21.5	8.3	9.9
522.	5.8	18.5	12.3	7
523.	21.8	12.2	23.4	6.5
524.	16.4	12.7	3.5	3.4
525.	15.1	5.6	15.5	2.2
526.	4.2	13.7	16.5	8.5
527.	13.5	12	17.5	7.5
528.	7.2	20.1	9.3	11
529.	10.5	21.8	12.4	11
530.	24.3	6.2	20.4	12
531.	27.5	5.8	24.3	8
532.	25.3	12.8	20.5	7.2
533.	24.3	11.5	16.5	5.2
534.	5.2	16.4	16	8.5
535.	2.5	7.8	17.5	8
536.	4.2	24.1	2.8	9.5
537.	17.3	18.6	17.8	8
538.	20.5	21.1	18.2	13
539.	22.4	12.1	30.2	14
540.	25.6	23.1	25.2	9.8
541.	17.6	17.1	9.8	8
542.	12.3	14.5	18.7	6.8
543.	16	9.9	25.7	9.2
544.	8	4.9	17.4	14.5
545.	6.4	13.6	28.8	7
546.	15.8	11.6	23.4	9
547.	15.5	15.6	19.3	11.5
548.	12.4	24.1	16.8	9
549.	10.8	19.9	11.4	7.4
550.	16.2	12	26.4	11
551.	6.1	5.6	19.4	6.2
552.	15.2	12.4	19.3	11
553.	16	17.2	13.3	12
554.	19.5	13.6	24.2	10.5
555.	20.1	5.6	18.3	12
556.	13.1	23.1	27.4	10.5
557.	13.2	12.1	21.8	8.5
558.	18.2	8.1	16.4	12.5

559.	13.3	14.6	25.4	8.5
560.	9.8	11.7	7.4	13
561.	6.3	16.1	26.4	10.5
562.	5	19.3	17.4	21
563.	21.1	18.5	22.7	7.5
564.	23.8	13	18.9	11
565.	15	21.5	23.3	6.5
566.	9.2	23.2	27.4	9.2
567.	15	18.5	11.4	15
568.	15.4	16.2	10.4	12
569.	20.5	23.3	32.2	16.5
570.	16.1	16.5	25.4	7.8
571.	18.4	33.2	24.4	11.5
572.	24.1	19.4	25.3	15
573.	25.5	24	17.8	26
574.	22	27.8	17.2	9.2
575.	21.5	30.2	17.4	12
576.	21.6	25.2	18.3	18
577.	16.8	20.2	10.5	23.2
578.	15.8	23.5	22.3	4.5
579.	7.9	29.2	20.4	14.5
580.	11.5	23.5	17.2	11
581.	12.4	9.8	17.5	12.6
582.	7.8	28.5	16.5	5.8
583.	8.8	18.5	13.4	10
584.	22.4	22.5	18.2	10
585.	13.1	24.5	23.4	9.3
586.	13	19.9	18.3	6.6
587.	5.5	19.6	25.7	11
588.	15.2	23.9	22.4	17
589.	10.2	18.2	24.4	10.2
590.	13.5	18.5	10.4	7.9
591.	5.3	18.5	2.5	10
592.	3.4	18.5	18.7	13
593.	36.1	25.2	28.2	5.6
594.	35.5	23.1	28.3	8.2
595.	29.8	17.3	11.5	9.5
596.	12.2	18.7	11.9	7.5
597.	36	28	9.8	8.3
598.	28.6	18.5	16.8	21
599.	32.1	19.8	10.7	9.8
600.	32.8	24.5	4.7	6.3
601.	22.4	29.2	14.5	2.7
602.	30.4	19.2	14.2	4.4
603.	13.5	15.6	14.5	23
604.	26.8	18.5	15.5	7.2
605.	18	28.5	12.3	10
606.	25.2	21.5	13.5	24
607.	23.1	14.9	4.5	9.8
608.	17.8	19.2	19.5	19
609.	41	26.2	22.4	8.8
610.	27.6	19.2	16.8	11
611.	34.1	12.3	19.5	8
612.	15.2	24.5	10.5	12.5
613.	13.6	21.9	11.5	19.2
614.	22.1	1	9.8	11.2
615.	2.5	18.5	7.5	9.2
616.	29.4	16.9	17.8	13
617.	27.1	26.2	11.2	6.8
618.	26.3	8.7	12.8	8.9
619.	27.5	19.2	27.8	11.5
620.	23.5	20.2	7.3	4.5
621.	20.3	31.5	13.3	7.5
622.	15.2	6.3	18.5	6.6
623.	16.2	9.2	9.4	6.7
624.	25	18.2	15.5	9.2
625.	13.5	37.2	18.5	4.8
626.	18.2	5.4	23.3	13
627.	14.8	18.5	15.4	10.5
628.	10.5	34.5	5.5	6.5
629.	11.2	27.1	19.5	4.4

630.	13.2	2.1	2.4	7.5
631.	14.3	11.3	16.4	14.2
632.	9.8	32.2	13.4	9.2
633.	2.5	20.2	9.7	11
634.	32.8	3.9	8.7	9.8
635.	18	25.7	12.3	9.2
636.	13.2	32.1	9.8	13.8
637.	15.3	8.5	18.3	13
638.	12.3	26.9	19.8	13
639.	29.2	17.2	12.5	4.5
640.	20.3	23.3	16.5	9.8
641.	16.5	3.2	17.8	10
642.	35.1	18.5	6.7	10.5
643.	33.1	26.2	8.7	13
644.	36.2	21.5	21.5	8.5
645.	22.6	4.5	21.5	13
646.	21.2	21.5	16.4	17
647.	28.8	33	16.7	12
648.	30.8	15	23.3	12.6
649.	22	11	3.4	9.5
650.	13.5	20.2	11.4	12
651.	20.6	34.2	5.5	11.5
652.	21.4	23.9	14.5	15
653.	20.4	14.5	8.7	18
654.	24.5	27.5	21.3	13.2
655.	26.5	14.4	16.3	7.8
656.	25.4	22.4	15.2	15.5
657.	33.5	9.5	13.5	10
658.	29.8	6.9	12.5	8.6
659.	24.5	13.3	15.4	6.5
660.	19.6	11.9	17.5	11
661.	29.4	21.2	8.7	13.8
662.	25.1	8.7	3.7	6.2
663.	16.2	20.2	20.8	23
664.	25.2	14.6	23.4	15.5
665.	16.2	17.5	12.4	9
666.	17.2	18.7	16.5	12
667.	16.1	19.9	15.5	10
668.	21.4	18.5	17.4	13
669.	16.2	21.2	17.4	17.8
670.	12.2	10.6	16.4	8
671.	5.2	11.5	17.5	9.1
672.	13.2	9.3	23.4	12
673.	15.1	18.5	9.8	19
674.	17.2	8.7	9.1	9.8
675.	12.6	16.3	5	17
676.	14.4	11.5	19.5	16
677.	15.4	19.2	12	13
678.	15.8	6.9	6.8	13.5
679.	14.2	21.2	7.6	25
680.	19.2	12.5	13	6.2
681.	21.3	17.5	9.3	14.5
682.	24.5	12.5	2.8	13.5
683.	22.8	11.5	6.8	14
684.	32.2	16.9	9.2	16
685.	23.1	9.3	18	12
686.	21.1	4.5	8.2	8.6
687.	18	9.3	11	18
688.	26.5	21.5	7.8	18
689.	19	2.1	20	15
690.	23.5	6.7	3.4	13
691.	14.1	21.9	7.5	16
692.	21.4	18.5	17	9
693.	17.8	3.2	16	9.4
694.	11.2	3.5	6.5	40
695.	14.2	23.2	19.2	28
696.	17.6	18.5	19	32
697.	18.2	4.5	7.8	14.2
698.	20.4	2.9	15.5	16.3
699.	26	9.8	11.5	21.2
700.	27.4	18.2	22	12

701.	19.2	2.9	12.2	6.2
702.	17.2	15.7	2.8	46
703.	32	11.3	6.2	32
704.	39.2	4.5	9.2	6
705.	17.5	21.5	28	24.6
706.	11.7	29	4.8	22.4
707.	10.1	17.4	4.5	16.4
708.	7.1	15	17.8	5.6
709.	23.2	30.9	21	5.6
710.	29.9	21.5	21.2	34
711.	23.1	17.3	6.5	34
712.	31.5	20	6.5	39.3
713.	32	13.4	20	21.2
714.	16.8	31.9	14	25.6
715.	23.3	21.9	25	24.4
716.	24.1	13.3	6.8	10.2
717.	16	11.4	20	9.3
718.	13.4	2.8	32.4	27
719.	19.9	8.7	33.3	27
720.	25.4	22.9	24.3	9
721.	28.8	24	14	18.9
722.	26	6.4	9.5	19.4
723.	31	2.8	8.9	35.6
724.	32.1	27.5	30.3	10.3
725.	39	31.9	28.2	14
726.	16.1	3.4	25	39
727.	37	7.5	26	42
728.	31.1	18	6.8	6
729.	28	27.3	14.6	24.3
730.	30	13.9	40.2	33.3
731.	14	37.2	6.2	8
732.	33	4.4	30	18
733.	17.2	6.4	34.8	32
734.	11.4	21.9	10.2	30
735.	19.3	22.5	25.4	34.2
736.	17.3	18.4	2.4	23.6
737.	24.5	21.1	40	23
738.	13.3	37	36.5	9.4
739.	4.5	22.5	13	19
740.	30.1	37.9	6.3	35
741.	22	11.6	6.8	39
742.	12.5	24.2	5.9	40.3
743.	12.3	37.2	29.2	35
744.	7.6	17.1	17	21.2
745.	21.6	19.9	27	8.1
746.	17.2	20.9	38.5	36
747.	14.9	27.2	29	29
748.	16	12.9	19	35
749.	19.7	18	18.2	24
750.	11.4	6.9	9.8	17.4
751.	23.3	15.3	26	17.3
752.	15.2	11.2	32	30.2
753.	13	12.3	34.5	19.4
754.	13.1	21.1	16.3	24
755.	14	12.5	45	14.5
756.	18.5	16.6	24.1	31.3
757.	11	7.2	26.4	17.8
758.	22.3	14.2	23.8	22.2
759.	8.5	9.9	21	19.3
760.	13.5	8.3	9.8	32.3
761.	7.6	15.3	6.8	24
762.	14.9	12.2	24.4	25
763.	11.2	10.1	19	14
764.	13.5	7.5	30	18.3
765.	14	8.3	29.3	14.3
766.	6.2	6.7	6.8	26.8
767.	14.8	6.5	28.2	33.2
768.	4.6	12.2	16.2	20
769.	17.3	8.2	9.9	17
770.	21.1	15.2	9.8	16.4
771.	11.2	21.2	32	29.4

772.	16.6	8.3	18	27
773.	14.6	11.2	6.4	14.4
774.	7.9	24.5	6.8	20.4
775.	19.9	21.2	6.9	10.5
776.	27.3	23.5	12.5	33.3
777.	10.6	23.3	12	13
778.	11.4	23.2	9	22.4
779.	17.5	26.3	19.8	23
780.	13.2	26.3	11	27
781.	13.7	16.2	6.8	31
782.	4.7	26.2	6.8	28.4
783.	16.5	15.2	9.2	24.5
784.	6	26.2	6.8	23.5
785.	16.3	11.3	16	19.5
786.	5	27.1	10.2	23.2
787.	8.7	12.2	3.8	24.5
788.	15.5	26.5	12	34.2
789.	22	5.2	22	26.4
790.	5	9.4	13.4	24.4
791.	5.5	21.1	20	24.4
792.	6.2	3.2	14	12.4
793.	20.7	8.9	9.8	24
794.	7.2	11.5	19.1	27
795.	11.4	33.5	30.8	28.4
796.	3.2	12.9	13.1	22.4
797.	43.3	3.2	14.1	26
798.	17.2	18.5	12.1	18
799.	14	16.9	13.1	23.2
800.	19.2	19.3	14.6	34.3
801.	19.3	12.3	29.8	27.4
802.	14.2	12.2	14.1	30.3
803.	3.2	13.9	4.9	29.3
804.	43.2	11.3	13.1	29.5
805.	18.6	19.8	18.2	36.5
806.	16.2	22.3	28.8	23.2
807.	7.8	12.8	8.1	34.4
808.	7.1	14.4	12.2	9.4
809.	12.1	19.5	14.1	28.4
810.	9.2	18.5	12.2	17.4
811.	9.3	13.3	21.1	28.4
812.	9.5	16.3	9.4	24
813.	16.1	16.9	11.9	26.2
814.	8.9	8.9	9.9	17.5
815.	11.2	17.2	11.6	18.4
816.	18.2	3.2	21.1	39
817.	28.1	15.2	8.2	24.5
818.	24.7	19.6	15.1	32
819.	15.7	10.2	10	20.2
820.	16.9	12.3	10.2	31.2
821.	6.5	5.2	32.6	19.5
822.	4.9	3.5	9.2	29.3
823.	6.7	8.7	5.6	19.6
824.	21.3	9.3	13	30.4
825.	13.7	13.7	26.8	15.4
826.	22.2	22.3	23.6	33
827.	19.4	25.6	16.8	20.3
828.	11.3	15.9	10.1	28.3
829.	17.3	2.3	25	35
830.	13.5	23.2	8.7	25.2
831.	38	20.1	8.2	32
832.	27.9	11.9	11.2	31
833.	9.2	12.2	14.1	28.4
834.	3.9	21.9	17.4	41.2
835.	28.2	11.2	14.2	28.2
836.	8.2	20.8	15.1	30.2
837.	25.3	19.1	12.8	19.4
838.	13.6	18.5	10.6	33
839.	14.7	13.3	17.1	13.6
840.	20.6	12.9	16	8.4
841.	7.4	12.8	13.6	15
842.	19.4	11.5	16	16.4

843.	15.2	6.3	13.9	4.2
844.	13.8	21.3	11.6	26.4
845.	32.1	38.1	16.2	28.3
846.	9.1	19.1	14.1	20
847.	26.7	20.2	20.1	9.4
848.	20.6	22.1	14	3.4
849.	16.9	19.2	14.5	11
850.	24	19.2	3.1	23.3
851.	10.2	113.9	14.6	14.5
852.	4.3	19.1	20.1	12.2
853.	35.2	17.5	19.6	21.2
854.	11.9	16.2	25	15.8
855.	17	6.7	14.6	14
856.	16.1	5.6	7.1	4.3
857.	20.1	23.4	13.1	3.4
858.	14.2	5.6	21.2	25
859.	9.1	16.2	18	15.6
860.	24.2	25.3	18.6	25.3
861.	16.5	3.5	15	23.3
862.	21	14.1	8.2	22.2
863.	4.1	8.9	16.1	13.8
864.	3.4	3.9	10.1	25
865.	30	11.5	18.1	12
866.	32.2	9.2	16.1	12.4
867.	5.9	10.8	13.4	10.3
868.	7.5	19.2	9.2	35
869.	8.9	5.6	14.1	24.4
870.	23.4	4.2	20.1	12.3
871.	26.1	3.5	23.1	14.3
872.	4.9	11.2	11.1	22
873.	3.2	23.3	8.9	6.7
874.	24	21.5	11.6	30
875.	10.6	6.9	16.2	14.6
876.	16.3	6.3	21.1	27.2
877.	10.3	6.7	18.4	34
878.	22.2	3.9	32.5	16.8
879.	8.1	6.2	24.4	22
880.	18.1	12.8	31.1	18.7
881.	14.3	15.8	10.5	9.8
882.	3.1	2.9	14.1	13.6
883.	17.2	5.8	12.1	27
884.	11.9	11.9	13.1	31.3
885.	8.1	12.5	36	26.8
886.	6.9	10.1	24.1	11
887.	16.3	9.3	34.5	8.7
888.	10.2	5.6	7.1	4.2
889.	13.9	23.2	19.1	14
890.	3.5	20.2	19.4	25
891.	24.4	3.2	14.4	2.4
892.	21.7	5.6	39	32
893.	18.2	5.2	21	32.3
894.	14.1	9.6	15.4	12.2
895.	26.1	6.7	7.5	23
896.	28.7	13.5	3.4	16
897.	15.1	13.5	10.5	9.2
898.	10.2	8.7	13.2	21.3
899.	29.1	6.4	29	14.3
900.	22.3	11.9	22.3	33.2
901.	21.3	12.3	15.5	33.6
902.	15.7	7.9	8.5	31.8
903.	16.4	19.9	14.5	31.5
904.	13.2	8.9	29.1	24.1
905.	22.2	12.3	6	39.1
906.	13.1	11.9	20	41.3
907.	17.3	12.3	16	15.1
908.	9.4	9.2	9.4	29.8
909.	18.3	11.5	12.5	11.2
910.	2.9	16.3	36.2	32.8
911.	19.6	17.2	26	51.2
912.	19.1	3.5	30.5	35.2
913.	9.2	6.9	9	41.2

914.	37.2	3.5	13.4	22.1
915.	26.5	6.7	32	12.3
916.	18.6	9.8	29	23.1
917.	21.3	12.8	27.1	31.3
918.	21.2	11.2	14.1	18.2
919.	22.8	9.3	10.4	22.4
920.	28.8	11.5	10.5	22.8
921.	5.6	9.2	33.1	25.5
922.	21.3	8.3	8.6	39.4
923.	29.1	11.5	3.5	19.3
924.	26.1	6.9	4.1	39.5
925.	18.1	16.2	11.2	14.6
926.	23.8	8.2	21.4	16.1
927.	32.3	6.7	24.1	37.8
928.	20.7	9.8	7.6	36.7
929.	13.3	12.5	29.1	27.6
930.	20.7	9.3	36.1	35.6
931.	19.2	8.2	16.1	4.9
932.	12.7	6.9	15.1	31.3
933.	5.3	12.9	9.8	20.1
934.	30.2	13.7	12.4	13.4
935.	29.6	14.5	33.1	35.1
936.	18.9	11.9	33.1	32.2
937.	21.2	4.2	17.6	23.4
938.	23.1	3.9	7.2	14.2
939.	10.7	9.5	9	11.1
940.	25.9	11.5	13.4	29.4
941.	14	19.2	29.3	19.5
942.	27.5	2.4	12.1	36.2
943.	17.3	18.5	18.2	27.8
944.	13.2	3.5	15.1	25.5
945.	15.9	11.5	6.1	28.6
946.	25.1	13.8	4.1	13.7
947.	25.2	8.5	24.1	9.5
948.	22.7	3.5	13.1	6.5
949.	14.4	11.5	19.4	15.6
950.	18.4	9.8	16.1	17.3
951.	13.4	4.5	7.3	22.3
952.	7.3	19.5	5.2	17.1
953.	21.3	17.6	26.1	28.5
954.	19.3	3.5	30.2	25.4
955.	19.6	12.5	20	11.2
956.	16.3	9.5	13.1	7.2
957.	23	21.5	12.1	12.2
958.	22.6	6.1	6	11.1
959.	19.6	12.5	31.2	15.2
960.	8.2	9.8	14.1	15.6
961.	16.2	9.8	8.4	26.4
962.	16.5	11.5	21.1	28.4
963.	20.3	22.5	13.1	17.6
964.	10	23.3	8.2	21.3
965.	10.2	3.1	33.4	11.3
966.	20.9	13.7	15	7.2
967.	19.2	22.8	19.2	11.2
968.	27.6	8.5	24.5	8.4
969.	12.1	3.8	14	12.4
970.	13.3	19.9	24	29.5
971.	15.4	22.8	19.1	29.8
972.	19.4	2.8	15.1	10.6
973.	23.1	21.9	4.2	12.2
974.	17.1	9.8	25.1	5.6
975.	26.5	1.3	19.1	9.3
976.	25	11.2	3.4	17.2
977.	8	18.2	14.7	15.7
978.	17.1	11.5	24	19.4
979.	23.9	19.3	16.2	41.5
980.	26.1	7.8	6.2	15.1
981.	20.6	25.8	15.4	11
982.	26.8	11.5	30.1	8.1
983.	18.2	12.5	14.1	5.6
984.	28.8	12.8	8.1	13.3

985.	21.2	3.2	34.1	13.5
986.	9.3	18.5	13.1	18.5
987.	24.1	9.9	9.1	26.3
988.	24.4	9.5	24.1	10.2
989.	33.9	20.3	18.2	7.8
990.	37.2	3.9	12.6	4.1
991.	9.2	19.2	35.1	6.7
992.	15	2.9	17.2	13.5
993.	25.1	2.2	14.4	17.8
994.	25.1	8.1	14.2	31.3
995.	15.1	16.8	16.1	11.9
996.	29.1	22.3	13.1	9.6
997.	21.3	14.3	15	12
998.	31	15	19.4	3.6
999.	11.5	7	14.3	5.2
1000.	19.3	5.2	14.5	18.9
1001.	29.5	3.9	4.5	16.2
1002.	25.7	6.5	24.3	25.6
1003.	12.7	7	7.2	23.8
1004.	14.2	10.4	25.2	11.1
1005.	31.2	9	10.6	8.1
1006.	14.6	3.2	16.4	5.6
1007.	15.7	8.5	4.8	6.1
1008.	12.1	2.2	10.8	30.4
1009.	27.2	8.2	16.2	30.1
1010.	24.9	2.5	10	23.2
1011.	18.3	13.5	20.1	14.4
1012.	4.2	7.5	14.1	12.4
1013.	22	7.2	10.2	14.8
1014.	2.6	3.2	12.2	16.8
1015.	8.3	16.9	16.2	23.6
1016.	9.5	6.2	12.2	21.2
1017.	21.3	14.4	9.2	13.3
1018.	11.4	12.2	14.2	23.6
1019.	18.1	10.2	6.3	19.6
1020.	30.5	3.2	31.3	13.2
1021.	23.4	13	4.3	13.2
1022.	29.3	10.1	15.2	26.8
1023.	16.4	12.3	16.2	10.1
1024.	18.2	8.2	7.8	17.6
1025.	24.1	3.5	3.4	15.1
1026.	13.2	4.1	7.2	13.2
1027.	21.5	5.6	6.2	12.2
1028.	33.4	2.2	22.5	11.9
1029.	29.1	16	18.3	22.2
1030.	25.1	9.5	15	21.1
1031.	17.1	12.4	20.4	11.6
1032.	30	7.2	6.7	18.3
1033.	20.9	19.4	5.6	33.4
1034.	28.2	5.5	7.1	17.9
1035.	18.2	13.9	7.8	42
1036.	21.4	7.5	22.3	36.1
1037.	13.4	7.2	334	17.6
1038.	17.1	19	16.6	17.8
1039.	30	7.5	13.4	9.2
1040.	12.2	13	8.7	17.4
1041.	12.3	11.2	4.1	19.3
1042.	32.1	14.8	12.3	22.2
1043.	27.3	3.5	12.2	17.7
1044.	23.1	8.4	26.3	14.2
1045.	22.5	4.3	17.3	17.2
1046.	15.1	8	21.2	18.4
1047.	20.4	15.4	11.6	20.4
1048.	18.2	17	4.3	24.3
1049.	18.1	10.2	7.8	25.2
1050.	27.5	17	5.6	19.2
1051.	18.1	15	21.1	13.6
1052.	11	7.2	24.6	15.7
1053.	21.3	5.6	32	13.3
1054.	15.6	4.8	16.2	32.2
1055.	20.2	12	11.4	23.3

1056.	29	14.5	7.1	20.3
1057.	22	14	10.2	11.3
1058.	20.2	12.5	9	18.6
1059.	20.1	12.5	15	17.1
1060.	28.2	11.2	11.2	7.8
1061.	5.1	8.9	17.5	35.8
1062.	20.6	16.8	22.4	24.7
1063.	30.8	5.6	13	3.7
1064.	41.2	16	3.6	17.6
1065.	32.5	14.4	3.4	39.6
1066.	30.2	11.2	7.8	30.6
1067.	35.3	23.2	9	23.6
1068.	26.1	15.9	6.1	29.2
1069.	24.5	6.9	9.9	4.9
1070.	17.1	14.2	5.8	24.2
1071.	19.7	4.2	9.6	12.5
1072.	43.1	13	9.4	18.3
1073.	32.5	12	6.2	28.7
1074.	35.1	15.5	5.6	9.8
1075.	40.1	8.5	10.2	11.8
1076.	34.2	8.5	8.2	17.2
1077.	29.6	13.5	8.5	14.2
1078.	36.5	10.5	8.7	32.6
1079.	91.1	11.5	9.9	19.2
1080.	38	15.9	7.1	10.2
1081.	9.2	12.2	4.2	9.7
1082.	36	16.2	16.7	19.8
1083.	57.8	14.3	14.4	12.9
1084.	22.9	12.5	6.7	6.7
1085.	29.9	21.2	9.2	13.5
1086.	35.9	8.1	13.7	10.5
1087.	32.1	18	8.4	25.6
1088.	8.3	8.1	11.3	16.7
1089.	45.3	11.9	6.3	3.4
1090.	15.4	19.1	3.2	5.6
1091.	14.3	8.9	18.3	25.4
1092.	17.1	10.5	13.5	32.2
1093.	38.2	18.2	14.2	13.3
1094.	27.8	12.5	9.1	13.4
1095.	40.3	15.9	11.2	14.2
1096.	21.3	12.8	12.8	32.6
1097.	5.2	6.5	18.6	28.7
1098.	3.2	7.5	13	21.3
1099.	31.1	13.2	13.5	8.7
1100.	48.3	3	11.2	6.1
1101.	18.1	16.6	6.7	9.8
1102.	17.2	15.8	12.2	33.2
1103.	47.6	3.5	12.1	26.3
1104.	19.2	12.1	7.4	18.2
1105.	12.2	4.4	12.8	18.3
1106.	44.1	16.6	18.7	7.8
1107.	19.1	19.5	16.7	12.3
1108.	51.1	10	5.2	24.2
1109.	34.9	14.5	8.3	23.8
1110.	37.3	7.3	10.2	24.5
1111.	12.3	15.4	14.9	15.7
1112.	27.8	7.5	13.7	5.6
1113.	27.1	6.4	12.8	31.5
1114.	47.1	6.1	10.2	31.3
1115.	46.1	11	15.6	29.2
1116.	37.5	12	10.5	20.2
1117.	33.4	6.5	10.2	12.6
1118.	46.3	24.3	19.8	5.6
1119.	45.1	13.5	20.2	24.5
1120.	34.3	16.5	15.8	26.2
1121.	39.8	7.7	22.6	25.2
1122.	29.4	9.5	6.2	10.2
1123.	40.7	8	18.6	20.9
1124.	46.3	6.6	18.7	4.9
1125.	43.7	18.3	12.8	9.6
1126.	28.5	13.5	13.8	29.1

1127.	36.1	24.4	25.6	17.8
1128.	46.6	25.3	8.7	21.3
1129.	47.3	15.3	13.4	19.3
1130.	35.1	17.8	15.2	9.8
1131.	22.1	9.1	13.6	29.2
1132.	22.4	7.2	12.6	31.4
1133.	42.3	14.6	16.8	35.2
1134.	30.3	25.3	13.8	22.2
1135.	42	7.5	7.8	23.2
1136.	50.2	16.6	13.4	17.8
1137.	39.1	12.3	28.4	23.6
1138.	42.3	29.2	22.2	28.3
1139.	45.5	6.5	11.3	33.2
1140.	41.9	21.3	12.6	18.6
1141.	51.7	18.5	8.6	16.6
1142.	37.4	14.5	11.5	34.2
1143.	13.7	8.8	26.3	32.1
1144.	23.8	9.8	25.8	17.8
1145.	20.3	14.8	19.7	5.7
1146.	27.3	8.3	6.4	23.2
1147.	20.5	23.5	9.3	21.3
1148.	39	19.4	10.8	11.5
1149.	7.8	20.8	18.6	13.4
1150.	58.2	9.2	16.7	16.7
1151.	43.2	13.5	12.6	11.2
1152.	28.9	10.6	5.8	21
1153.	32.1	15.1	7.2	7.8
1154.	18.1	11	14.3	19.2
1155.	32.1	19.3	27.5	14.2
1156.	21.9	26.2	18.6	16.3
1157.	30.3	15.5	9.2	13.3
1158.	39.9	21	8.9	8.2
1159.	34.2	9.8	14.6	17.2
1160.	16.2	20.1	19.3	8.9
1161.	16.2	11.2	14.3	17.1
1162.	29.3	29.5	19.2	19.6
1163.	27.8	15.2	7.3	10.6
1164.	30.6	21.9	4.7	8.2
1165.	14.2	21.5	17.8	11.2
1166.	20.3	18.2	20.2	18.6
1167.	26.7	16.5	15.6	21.3
1168.	12.1	22.3	149.8	16.3
1169.	45.1	9.2	26.3	7.1
1170.	29.2	10.5	23.8	7.8
1171.	41.1	18.5	18.2	24
1172.	13.2	18.7	3.2	12.1
1173.	37.3	20.5	6.2	6.2
1174.	29.1	17.8	13.8	22.2
1175.	30.3	9.9	19.2	14.1
1176.	17.2	25.4	19.8	19
1177.	42.3	23.1	15.6	12.4
1178.	2.9	7.5	11.5	11.5
1179.	28.1	21.5	5.2	11.9
1180.	30.2	7	7.3	12.1
1181.	5.3	12.2	14.2	15.6
1182.	27.4	16	15.6	8.3
1183.	17.3	10	14.2	14.3
1184.	33.1	8.3	13.8	11.6
1185.	17.1	8.9	26.8	15.6
1186.	44.2	31.2	4.3	17.8
1187.	17.1	13.5	4.6	15
1188.	29.2	5.2	14	14.6
1189.	27.6	14.3	14.8	12.9
1190.	7.8	7.6	18.8	20.3
1191.	32.2	16.2	12.3	19.3
1192.	7.3	19.6	22.3	9.2
1193.	21.2	15.5	18.5	10.3
1194.	17.6	11.2	15.3	12.2
1195.	29.3	6.3	20.3	9.2
1196.	3.9	4.1	17.6	18.6
1197.	19.6	29.5	20.1	11.7

1198.	35.3	18.5	29.6	12.8
1199.	18.7	4.8	6.8	9.5
1200.	29.2	9.3	13.8	19.5
1201.	25.4	14.2	18.6	14.1
1202.	17.9	23.5	20.2	8.3
1203.	20.1	15.8	14.2	14.3
1204.	30.1	7.2	24.4	16.2
1205.	6.7	5.2	7.2	16.7
1206.	16.6	16.5	14.2	10.1
1207.	19.4	3.2	29.4	20.6
1208.	6.2	5.4	22.6	18.6
1209.	20.6	7.5	16.3	9.9
1210.	36.2	11.2	6.3	14.1
1211.	32.9	6.8	5.4	24.8
1212.	17.3	23.3	22.3	17.2
1213.	39.7	16.3	26.2	23.1
1214.	4.6	31.2	20.2	11.7
1215.	23.4	2.2	16.6	9.8
1216.	33	3.1	4.6	25.6
1217.	23.8	23	13.3	20.6
1218.	23.1	9.9	23.2	18.1
1219.	24.1	22.1	7.1	14.6
1220.	32.3	15.2	12.3	21.3
1221.	19.1	6.4	22.1	9.6
1222.	31.9	13.3	9.3	18.2
1223.	38.2	2.6	24.9	19.3
1224.	14.3	6.2	18.3	16.2
1225.	42.9	6.7	3.4	14.8
1226.	10.1	5.3	27.1	18.6
1227.	18.4	2.2	22.2	7.2
1228.	36.7	5.8	11.4	19.3
1229.	14.2	18.5	15.1	4.2
1230.	34.2	3.2	8.2	7.8
1231.	17.1	22.2	10.1	17.2
1232.	23.2	4.3	11.1	4.1
1233.	36.1	6.3	5.6	12.2
1234.	26.7	10.2	22.3	19.6
1235.	18.7	3.2	12.3	21.2
1236.	6.4	7.3	17.2	22.1
1237.	26.6	4.3	5.6	14.5
1238.	25.1	27.3	10.1	9.1
1239.	30.8	11.2	19.4	20
1240.	7.1	5.5	31.2	16.6
1241.	25.4	4.5	15.4	17.1
1242.	17.6	12.3	18.2	13.2
1243.	15.7	9	10.1	12.3
1244.	34.5	17.8	13.2	9.5
1245.	26.6		7.5	7.6
1246.	38.2		9.9	19
1247.	37.6		11.2	15.6
1248.	16.3		19.3	19.3
1249.	31.2		19.3	21.2
1250.	33.2		12.2	26.8
1251.	7.3		17.2	6.8
1252.	9.7		6.1	5.1
1253.	30.6		16.2	17.8
1254.	19.6		9.3	19.2
1255.	7.3		19.2	11.5
1256.	32.3		12.1	20
1257.	28.3		12.1	15.2
1258.	19.2		11.2	13.2
1259.	33.6		14.2	21.2
1260.	19.2		20.3	21.2
1261.	27.4		7.8	25.6
1262.	19.7		17.1	14.2
1263.	27.3		29.2	5.6
1264.	8.5		14.1	21.1
1265.	27.4		9.2	26.2
1266.	46.1		2.3	18.6
1267.	32.2		9.2	21.4
1268.	8.2		6.5	26.1

1269.	16.3		5.6	21.6
1270.	21.3		15.1	14.6
1271.	29.4		19.2	14.3
1272.	34.9		6.5	17.3
1273.	8.2		23.5	26.5
1274.	39.4		17.8	13.1
1275.	45.2		4.6	26.3
1276.	19.2		22.1	14.9
1277.	31.2		20.1	13.2
1278.	29.6		28.6	12.2
1279.	7.9		21.2	29.5
1280.	25.3		12.2	22.3
1281.	35.6		29	19.2
1282.	18.4		9.1	24.1
1283.	30.6		8.5	7.3
1284.	19.6		22.1	21.2
1285.	7.8		20.1	4.6
1286.	21.4		11.9	12.3
1287.	16.2		22.2	15.6
1288.	13.5		19.2	18.4
1289.	41.6		17.2	14
1290.	18.1		30.2	5.1
1291.	6.9		7.8	13.6
1292.	19.7		18.1	23.7
1293.	6.2		28.3	29.8
1294.	21.6		10.1	31.2
1295.	19.2		8.2	18.7
1296.	23.6		20.1	14.6
1297.	18.3		19.2	19.6
1298.	25.1		20.6	10.6
1299.	18.2		24.6	22.6
1300.	36.1		15.2	21.5
1301.	13.3		8.3	15.4
1302.	1.9		15.3	30.1
1303.	16.2		18.1	10.9
1304.	20.2		21.2	25.6
1305.	26.1		11.1	22.6
1306.	14.9		8.9	29.4
1307.	3.2		11.1	11.6
1308.	8.7		8.3	19.8
1309.	10.9		19.2	16.8
1310.	19.7		14.8	21.2
1311.	15.1		28.2	12.2
1312.	5.9		22.1	15.2
1313.	20.5		17.8	7.9
1314.	12.3		14.2	15.6
1315.	15.1		12.3	24.1
1316.	25.3		22.1	18.6
1317.	7.8		26.3	8.4
1318.	27.5		10.1	4.8
1319.	12.1		26.2	9.6
1320.	10.1		19.1	21.1
1321.	13.1		23.2	4.5
1322.	11.7		10.2	29.6
1323.	17.5		22.3	16
1324.	14.2		27.3	20.9
1325.	16.3		28.3	14.1
1326.	17.6		10.2	15.6
1327.	8.6		27.8	13.6
1328.	19.6		16.2	15.6
1329.	23.6		27.5	12.8
1330.	17.3		15.3	9.2
1331.	16.9		31.2	17.1
1332.	7.1		14.3	17.6
1333.	11.2		17.3	18.2
1334.	6.1		17.3	13.4
1335.	50.2		19.3	13.6
1336.	17.9		20.1	10.3
1337.	8.2		32.3	20.2
1338.	14.1		19.1	7.8
1339.	28		23.1	9.3

1340.	43.3		21.2	19.3
1341.	30.3		14.2	20.6
1342.	9.2		29.2	6.1
1343.	30.1		19.2	9.6
1344.	19		25.2	7.8
1345.	49.2		10.1	17.8
1346.	32.1		32.3	36.9
1347.	23.2		25.3	4.3
1348.	30.8		20.2	12.2
1349.	18.2		20.1	15.2
1350.	13.2		20.1	5.6
1351.	29.7		21.3	32.4
1352.	27.3		8.2	13.6
1353.	20.6		12.2	18.6
1354.	17.8		11.1	29.6
1355.	14.2		17.6	6.2
1356.	34.3		9.2	24.2
1357.	16.1		4.7	14.2
1358.	17.4		5.6	14.2
1359.	31.6		11.1	13.2
1360.	11.2		12.4	5.9
1361.	19.6		14.5	33.1
1362.	11.2		6.6	18.1
1363.	33.4		9	25.5
1364.	27.4		14.2	12.8
1365.	16.2		16.2	6.3
1366.	21.7		13.2	7.2
1367.	13.4		18.4	16.3
1368.	38.4		14.3	30.6
1369.	20.3		15.7	17.8
1370.	17.3		7.8	23.3
1371.	7.3		10	26.8
1372.	17.4		11.6	10.6
1373.	14.5		8.9	14.2
1374.	30		15.5	14.2
1375.	20.5		7.8	15.6
1376.	20.7		15.6	24.1
1377.	25.1		16.2	11.6
1378.	23.2		6.2	14.2
1379.	28.1		11.1	19.8
1380.	37.1		7.1	12
1381.	30.6		18.2	19.9
1382.	22.7		9.9	16.1
1383.	12.4		9.3	28.5
1384.	32.5		7.8	8.9
1385.	25.7		3.6	17.5
1386.	21.7		11.2	18.6
1387.	26.9		10.3	15.1
1388.	33.4		19.8	22.2
1389.	16.3		13.4	18.2
1390.	10.9		5.5	19.2
1391.	27.5		8.9	14.3
1392.	32.3		4.9	14.6
1393.	24.9		14.5	24.6
1394.	30.1		15.6	22.3
1395.	18.1		11.1	9.2
1396.	26		12.8	9.3
1397.	19.9		14	12.2
1398.	10.7		12.3	15.6
1399.	29.5		13.5	9.2
1400.	30.2		15.2	17.8
1401.	19.3		14.2	4.5
1402.	13.1		4.6	24.2
1403.	18.1		11.6	31.2
1404.	29.1		6.2	14.5
1405.	22		21	9.5
1406.	29		23	24.2
1407.	10.7		13.4	21.3
1408.	9.8		20.2	14.5
1409.	24.3		11.2	23.3
1410.	23.2		19.5	9.6

1411.	30		9.2	19.2
1412.	20		14.1	10.2
1413.	11.9		26	16.8
1414.	10.9		8.1	20.6
1415.	26.4		6.5	14.6
1416.	36.5		26.2	19.8
1417.	10.3		21.5	20.5
1418.	12.3		6.8	18.6
1419.	7.4		15.1	31.6
1420.	35.2		24.6	17.2
1421.	28.9		16.6	20.5
1422.	27.8		15.1	20.3
1423.	15.5		30.3	24.1
1424.	15.1		37.5	24.9
1425.	23.2		19.9	16.2
1426.	15.1		18.7	10.2
1427.	32.3		18.2	14.3
1428.	13.6		22.4	9.9
1429.	16.9		17.8	12.1
1430.	8.1		11.8	7.2
1431.	25		25.5	13.2
1432.	21.5		12.6	15.7
1433.	17		40.6	16.7
1434.	10.9		13.5	30.1
1435.	23.1		2.6	18.5
1436.	19.1		28.3	13.2
1437.	13.7		35.6	16.6
1438.	18.2		29.2	24.1
1439.	12.3		5.9	18.7
1440.	20.1		15.1	13.1
1441.	21.7		16.3	23.8
1442.	11.2		28.2	10.9
1443.	22.7		9.1	19
1444.	35.6		16.9	18.5
1445.	10.9		14.1	14.7
1446.	22.7		6.2	9.8
1447.	1.3		19	28.2
1448.	30.1		19.8	16.6
1449.	23.5		14.9	5.7
1450.	20.6		21	9.9
1451.	32.3		16.6	33.1
1452.	23.5		16.9	9.8
1453.	11		19.8	11.2
1454.	17.1		9.5	12.2
1455.	30		26	21.9
1456.	14.1		13	10.4
1457.	30.2		15.1	30.1
1458.	25.1		23	7.8
1459.	14.2		10.5	17.6
1460.	9.1		15.8	24.1
1461.	4.9		21.8	23.2
1462.	35.3		35.1	13.3
1463.	26.1		21.3	16.2
1464.	16.7		15.6	26.1
1465.	2.9		3.5	29.2
1466.	10.1		10.2	19.4
1467.	19.5		16.7	19.8
1468.	16.2		14.5	21.2
1469.	19.7		2	6.6
1470.	3.2		20.2	33
1471.	12.3		18.4	17.8
1472.	20.3		16.5	10.8
1473.	17.3		16.2	15.2
1474.	23.1		15.5	16.8
1475.	4.5		9.9	14.2
1476.	13.6		20	14.6
1477.	15.3		24.2	9.1
1478.	11.1		18.3	30.1
1479.	24.7		12.2	27.3
1480.	7.5		22.3	30.4
1481.	39.1		18.9	9.1

1482.	16.1		11.9	21.2
1483.	10.9		6.5	26.7
1484.	29.7		29.1	13.7
1485.	8.5		5	9.7
1486.	36.2		23.4	20.9
1487.	17.3		16	8.1
1488.	10.1		22.5	13.6
1489.	31.7		2.3	30.5
1490.	3.6		10	30.2
1491.	18.9		13.5	16.2
1492.	11.3		16.7	17.8
1493.	8.2		19	13.1
1494.	3.2		23.2	7.8
1495.	21.2		25	12.5
1496.	25.5		11.3	7.5
1497.	21.2		3.4	23.1
1498.	2.3		15.1	14.2
1499.	15.6		15.2	21.1
1500.	5.2		29	8.6
1501.	5.3		12.6	6.2
1502.	16.6		9.4	16.9
1503.	15.3		2.7	41.1
1504.	11.3		31.8	24.7
1505.	18.8		13.6	21.8
1506.	18.3		34.2	15.1
1507.	4.2		15.2	19.5
1508.	16.7		26.5	8.3
1509.	12.5		31.8	17.5
1510.	12.3		7.4	16.7
1511.	11.5		15	6.5
1512.	9.2		28.2	9.2
1513.	11.5		15.9	18.3
1514.	8.3		7	17.3
1515.	12.2		11.4	6.7
1516.	11.2		16.1	12.9
1517.	21.5		25.3	22
1518.	15.4		18.5	18.3
1519.	23.8		29	28.1
1520.	9.5		9.1	5.9
1521.	5.1		18.5	20.2
1522.	10.2		21.9	15.8
1523.	5.8		37	8.1
1524.	10.5		2.1	20.5
1525.	10.1		33.3	4.8
1526.	9.1		19.3	22.2
1527.	11.1		40.1	8.9
1528.	13.5		28.2	28.4
1529.	8.3		20.5	3.1
1530.	13.3		22.5	23.1
1531.	20.8		12.5	9.3
1532.	9.5		36.7	19.4
1533.	9.4		18.9	28.2
1534.	4.6		18	18.1
1535.	12.8		14.9	9.4
1536.	4.8		12.3	8.9
1537.	13.2		13.5	15.8
1538.	11.6		15	14.1
1539.	4.4		31.9	18.2
1540.	14.2		14.6	3.2
1541.	11.1		11	12.2
1542.	4.9		9.2	21.3
1543.	6.9		9.4	21.1
1544.	19.5		29.5	5.8
1545.	31		11	13.5
1546.	22.5		11.4	10.2
1547.	18.5		27	26.3
1548.	10.2		10	7.3
1549.	8.1		23.9	19.9
1550.	15.3		18.5	12.1
1551.	37.8		15.2	12.1
1552.	23.3		19.1	18.2

1553.	29.2		25.5	7.3
1554.	8.7		18	8.1
1555.	22.2		15.1	14.9
1556.	8.2		22.8	10.9
1557.	14.1		2.1	12.1
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1560.	25.6		23.5	14
1561.	12.2		14.3	15.4
1562.	23.3		23.5	12.3
1563.	14.6		11.9	11.4
1564.	19.2		11.9	14.1
1565.	28.3		5.6	27.2
1566.	25.2		12	17.3
1567.	19.78		16	10.5
1568.	28.6		21.5	13.8
1569.	9.3		14.3	20.5
1570.	8.5		15.4	25.2
1571.	28.2		18.5	14.2
1572.	18.5		16.2	9.1
1573.	16.6		11.9	4.2
1574.	14.3		23.1	15.4
1575.	22.5		15	11.5
1576.	4.3		23.5	21.1
1577.	23.9		6.3	1.2
1578.	17.3		14.7	26.1
1579.	33.2		23	16.5
1580.	18.2		25.4	14.1
1581.	22.3		4.2	18.2
1582.	20.1		11.2	16.1
1583.	7.3		9.5	9.8
1584.	24.1		40.6	15.2
1585.	30.2		19.4	18.1
1586.	28.3		15.8	20.2
1587.	28.3		31.5	10.5
1588.	10.7		42.5	15.8
1589.	30.3		13.6	8.2
1590.	8.6		18.1	8.6
1591.	7.2		35.6	8.6
1592.	31.2		4.1	6.9
1593.	22.2		29.5	12.2
1594.	8.8		16.1	9.3
1595.	13.1		41.2	9.6
1596.	23.3		9.2	17.8
1597.	8.3		36.4	7.1
1598.	11.5		15.8	7.8
1599.	20.2		3.5	8.5
1600.	23.1		18.5	21.2
1601.	21.3		31.1	14.9
1602.	21.8		12	9.3
1603.	8.1		11.2	10.7
1604.	19.2		20.3	15.2
1605.	14.1		12.5	14.6
1606.	15.6		31.5	9.4
1607.	21.2		19.2	14.1
1608.	15.2		21.4	13.8
1609.	13.5		36	14.5
1610.	15		36	16.3
1611.	12.3		15.6	11.2
1612.	13.2		12.1	13.2
1613.	20.1		14.2	13.1
1614.	20.1		29	12.3
1615.	25.5		20	12.1
1616.	22		23.9	19.2
1617.	19.1		15.6	10.9
1618.	15.3		39	10.8
1619.	22.1		19.5	9.2
1620.	10.2		6.9	7.6
1621.	22		40.1	7.5
1622.	15.2		46.1	10.2
1623.	20.6		18	12.2

1624.	20.5		16.2	14.1
1625.	4.2		20.5	11.5
1626.	11.2		31.2	7.3
1627.	15.2		25.5	3.6
1628.	14.4		21.5	9.5
1629.	9.8		1.8	7.8
1630.	6.1		9.2	21.5
1631.	9.8		26.3	16.2
1632.	13.4		7.9	9.3
1633.	20.3		31.3	12.1
1634.	11.3		7	11.9
1635.	21.2		4.5	19.3
1636.	8.7		18.7	10.5
1637.	13.1		40.1	13.9
1638.	22.1		29	21.9
1639.	16.8		17.1	21.5
1640.	22.6		19.2	11.9
1641.	8.5		40	8.7
1642.	21.2		9.1	26.5
1643.	10.2		15.2	23.3
1644.	15.2		31.5	12.5
1645.	13.2		7	7.8
1646.	10.5		14	12.8
1647.	9.1		45	30.3
1648.	14.7		31	8.7
1649.	11.2		18.2	9.2
1650.	25.4		26.2	19.2
1651.	26.2		35.6	29.2
1652.	11.1		19.5	9.8
1653.	12.3		18.5	12.5
1654.	8.3		27.5	11.2
1655.	3.3		30	22.1
1656.	25.1		7.2	9.8
1657.	9.2		12.3	21.5
1658.	12.1		16.2	19.5
1659.	23.2		8.7	10.1
1660.	24.1		13.5	11.9
1661.	22.3		27.1	19.9
1662.	7.8		14.9	12.5
1663.	20.1		16.3	10.2
1664.	13.1		8.7	12.3
1665.	23.6		20.1	21.5
1666.	20.1		13.2	21.9
1667.	26.1		19.9	17.2
1668.	26.1		13.5	3.2
1669.	8.6		13.2	26.9
1670.	9.2		18.1	14.5
1671.	6.1		17.5	5.3
1672.	20.1		19.5	11.9
1673.	12.2		11.1	2.1
1674.	19.2		11.6	22.9
1675.	33.3		3.2	16.1
1676.	15.1		8.7	20.9
1677.	11.1		9.4	3.2
1678.	12.2		13.9	18.5
1679.	19.2		8.6	28.5
1680.	13.3		11.6	21.5
1681.	6.3		15.9	13.9
1682.	15.2		11.5	17.2
1683.	21.3		11.5	19.2
1684.	9.2		9.8	19.9
1685.	23.9		14.2	27.5
1686.	25.4		22.2	16.2
1687.	22.1		12.8	18.5
1688.	11.2		22.3	20.2
1689.	6.1		3.2	32.2
1690.	22.3		15.3	9.8
1691.	22.1		11.2	19.3
1692.	6.1		12.1	18.5
1693.	15.3		24.3	29
1694.	26.1		8.1	18.5

1695.	9.9		19.6	22.2
1696.	9.3		12.5	3.6
1697.	31.2		17.9	10.5
1698.	30.1		21.2	17.8
1699.	26.3		8.5	10.1
1700.	20.1		18.5	11.9
1701.	6.3		16.9	21.5
1702.	12.1		12.2	35.1
1703.	13.3		19.9	12.8
1704.			9.6	19.9
1705.			15.3	30.5
1706.			17.3	19.5
1707.			21.2	22.8
1708.			5.3	29.6
1709.			5.3	18.5
1710.			15.2	21.9
1711.			22.3	20.2
1712.			11.2	19.5
1713.			3.2	11.9
1714.			12.6	15.6
1715.			18.5	21.2
1716.			12.8	27.8
1717.			4.5	30.3
1718.			9.8	26.1
1719.			16.9	27.7
1720.			13.9	20.9
1721.			6.9	23.8
1722.			7.2	27.5
1723.			25.3	20.2
1724.			21.2	28.1
1725.			29.1	21.2
1726.			23.1	17.3
1727.			29.1	26.1
1728.			28.8	10.9
1729.			34.5	29.2
1730.			35.9	26.2
1731.			23.2	23.3
1732.			19.5	13.9
1733.			26.2	26.1
1734.			24.5	23.9
1735.			20.1	20.2
1736.			34.6	11.2
1737.			16.1	27.2
1738.			22.1	28.3
1739.			20.1	24.9
1740.			7.8	19.2
1741.			12.8	9.8
1742.			6.8	29.2
1743.			37.1	23.2
1744.			23.2	14.9
1745.			26.9	19.2
1746.			9.8	19.1
1747.			22.8	21.5
1748.			20.1	33.6
1749.			15.8	25.9
1750.			11.2	24.1
1751.			19.8	24.6
1752.			30.3	33.6
1753.			7.2	27.6
1754.			26.1	33.5
1755.			19.2	26.1
1756.			19.9	26.5
1757.			9.8	26.8
1758.			20.1	20.3
1759.			13.2	27.8
1760.			21.2	28.3
1761.			9.1	30.7
1762.			14.1	27.8
1763.			26.2	22.3
1764.			24.2	11.2
1765.			26.5	19.8

1766.			9.8	29.1
1767.			21.9	29.2
1768.			7.8	13.5
1769.			9.8	26.9
1770.			16.1	12.4
1771.			26.1	19.6
1772.			25.1	10.1
1773.			8.5	34.1
1774.			25.8	35.6
1775.			22.7	26.6
1776.			22.4	30.5
1777.			27.2	31.1
1778.			23.3	30.8
1779.			29.3	19.8
1780.			20.1	8.2
1781.			12.1	19.5
1782.			20.9	27.6
1783.			8.9	26.9
1784.			23.1	26.2
1785.			14.4	37.1
1786.			25.9	26.4
1787.			29.2	21.8
1788.			16.5	19.2
1789.			25.3	30.1
1790.			21.3	33.2
1791.			22.2	23.5
1792.			19.6	9.2
1793.			21.5	28.3
1794.			9.8	19.8
1795.			22.3	11.2
1796.			29.1	15.2
1797.			21.2	23.6
1798.			25.2	30.1
1799.			32.4	14.2
1800.			12.8	19.2
1801.			11.9	33.6
1802.			35.3	33.2
1803.			19.1	12.1
1804.			23.8	24.1
1805.			12.8	33.8
1806.			15.9	36
1807.			19.8	27.8
1808.			11.2	25.6
1809.			19.9	35.1
1810.			26.8	27.5
1811.			13.9	19.1
1812.			24.1	23.8
1813.			25.4	30.1
1814.			34.3	37.6
1815.			26.2	27.8
1816.			27.3	26.2
1817.			17.5	25.5
1818.			24.2	33.2
1819.			26.1	20.1
1820.			26.3	9.8
1821.			23.3	36.4
1822.			16.6	21.1
1823.			25.9	14.6
1824.			23.9	26.5
1825.			27.2	13.6
1826.			27.1	9.8
1827.			28.3	18.8
1828.			29.2	19.2
1829.				27.6
1830.				30.2
1831.				33.3
1832.				29.8
1833.				29.8
1834.				13.5
1835.				22.7
1836.				16.2

1837.				13.7
1838.				12.1
1839.				16.8
1840.				29.8
1841.				16.3
1842.				12.2
1843.				13.2
1844.				11.3
1845.				23.8
1846.				29.5
1847.				26.9
1848.				34.2
1849.				26.9
1850.				19.8
1851.				24.6
1852.				8.1
1853.				14.9
1854.				27.1
1855.				26.1
1856.				24.2
1857.				19.8
1858.				23.3
1859.				26.4
1860.				33.9
1861.				39.5
1862.				32.5
1863.				30.5
1864.				35.6
1865.				26.6
1866.				28.6
1867.				11.6
1868.				22.8
1869.				19.8
1870.				9.8
1871.				38.1
1872.				13.4
1873.				16.5
1874.				17.6
1875.				26.9
1876.				37.2
1877.				32.6
1878.				37.7
1879.				36.6
1880.				14.5
1881.				25.4
1882.				29.2
1883.				21.9
1884.				17.2
1885.				19.9
1886.				30.1
1887.				21.3
1888.				19.9
1889.				23.7
1890.				21.2
1891.				9.8
1892.				37.8
1893.				27.6
1894.				19.5
1895.				19.9
1896.				22.5
1897.				8.2
1898.				18.3
1899.				35.3
1900.				20.1
1901.				12.2
1902.				27.8
1903.				26.1
1904.				7.3
1905.				29.6
1906.				16.2
1907.				24.2

1908.				23.9
1909.				11.6
1910.				17.6
1911.				16.6
1912.				20.1
1913.				16.2
1914.				13.3
1915.				18.6
1916.				28.2
1917.				27.9
1918.				28.2
1919.				36.8
1920.				10.1
1921.				19.8
1922.				30.6
1923.				29.5
1924.				14.2
1925.				12.2
1926.				13.2
1927.				19.1
1928.				18.6
1929.				32
1930.				8.3
1931.				29.1
1932.				34.1
1933.				11.2
1934.				27.7
1935.				22.1
1936.				9.4
1937.				26.3
1938.				25.6
1939.				17.3
1940.				28.5
1941.				16.2
1942.				38.7
1943.				8
1944.				4
1945.				19.5
1946.				13.2
1947.				11.5
1948.				30.1
1949.				34.2
1950.				22.1
1951.				16.4
1952.				26.4
1953.				36.3
1954.				6.5
1955.				37.8
1956.				18.7
1957.				16.1
1958.				21.2
1959.				8.8
1960.				26.9
1961.				33.3
1962.				23.5
1963.				23.6
1964.				8
1965.				33.2
1966.				20.1
1967.				17.7
1968.				13.1
1969.				27.2
1970.				8.5
1971.				11.8
1972.				29.2
1973.				25
1974.				18.3
1975.				8.9
1976.				23.3
1977.				18.2
1978.				19.2

1979.				11.2
1980.				6.8
1981.				25.5
1982.				18.9
1983.				5.6
1984.				21.1
1985.				13.3
1986.				25.9
1987.				33.6
1988.				16.2
1989.				14.1
1990.				11.2
1991.				22.3
1992.				27.1
1993.				11.3
1994.				36.2
1995.				27.6
1996.				31.4
1997.				35.5
1998.				23.3
1999.				25.5
2000.				9.2
2001.				28.7
2002.				33.9
2003.				15.6
2004.				18.3
2005.				24.5
2006.				26.9
2007.				25.1
2008.				26.8
2009.				19.9
2010.				31.2
2011.				19.1
2012.				30.2
2013.				18.5
2014.				12.7

Appendix 3 : Total number of pneumatophores, average length of pneumatophores and average number of lenticels per sq. cm at collar, middle and top of the pneumatophores of sundri in four top dying severity classes in the in 36 samples in the Sundarbans as collected in January 2002.

	STD severity category As per % sundri	Compartment Number	Sample Plot Number	Sub-plot no.	Total No. of pneumato phores	Average length of pneumato phores	Average no of lenticels per sq. cm		
							Collar	Middle	Top
1.	Moderate	19A	1	1	22	17.25	1.5	1.917	2
2.	Moderate	19A	1	2	17	18.45	2.667	2.5	1.333
3.	Moderate	19A	1	3	10	13.62	2.5	2.167	2.333
4.	Moderate	19A	1	4	31	15.506	3.5	2.25	2.667
5.	Moderate	19A	1	5	21	11.719	2.833	3.25	1.667
6.	Moderate	19A	2	1	18	13.25	2.583	3.167	2.333
7.	Moderate	19A	2	2	25	17.600	2.667	2.75	1.667
8.	Moderate	19A	2	3	32	12.450	2.5	2.5	2.667
9.	Moderate	19A	2	4	26	29.30	2.25	2.333	2
10.	Moderate	19A	2	5	24	10.792	3.083	2.167	2
11.	Moderate	22	3	1	21	14.38	3.25	2.917	1.333
12.	Moderate	22	3	2	1	4.5000	2.167	2.167	2.667
13.	Moderate	22	3	3	25	10.724	2.833	2.583	2
14.	Moderate	22	3	4	18	18.18	3.25	3	3
15.	Moderate	22	3	5	56	8.970	3.5	4.167	2.667
16.	Moderate	26	1	1	10	9.760	3.333	3.25	1.333
17.	Moderate	26	1	2	14	13.71	3	3.333	2.333
18.	Moderate	26	1	3	16	14.38	3.25	3.25	1
19.	Moderate	26	1	4	6	8.650	1.5	2.833	2.667
20.	Moderate	26	1	5	18	16.41	3.333	3.25	3.333
21.	Moderate	26	3	1	14	6.700	2.667	1.417	2.333
22.	Moderate	26	3	2	13	13.346	3	2.583	1.667
23.	Moderate	26	3	3	5	6.34	3.25	3.583	1.667
24.	Moderate	26	3	4	3	4.90	2.917	1.333	2
25.	Moderate	26	3	5	11	6.945	3.25	1.667	2.667
26.	Moderate	33	1	1	41	13.16	3.5	3	3
27.	Moderate	33	1	2	28	14.64	3.75	3.25	2.667
28.	Moderate	33	1	3	30	9.327	2.833	2.833	3.333
29.	Moderate	33	1	4	30	12.240	3.5	3.167	3
30.	Moderate	33	1	5	34	15.256	2.25	3.667	2.667
31.	Moderate	33	2	1	39	15.797	1.4167	1.75	2
32.	Moderate	33	2	2	4	6.800	2.583	1.75	2
33.	Moderate	33	2	3	21	15.44	3.583	2.583	3.333
34.	Moderate	33	2	4	12	20.77	4.417	4.917	2.667
35.	Moderate	33	2	5	21	12.59	3.25	4.417	3.333
36.	Moderate	36A	2	1	17	27.89			
37.	Moderate	36A	2	2	36	22.26			
38.	Moderate	36A	2	3	4	10.90			
39.	Moderate	36A	2	4	32	20.91			
40.	Moderate	36A	2	5	22	19.53			
41.	Moderate	40	1	1	24	17.433			
42.	Moderate	40	1	2	7	10.94			
43.	Moderate	40	1	3	13	15.16			
44.	Moderate	40	1	4	23	10.509			
45.	Moderate	40	1	5	8	11.37			
46.	None	2	1	1	34	8.518	1.333	2	2
47.	None	2	1	2	35	13.317	2.583	2.667	2.333

48.	None	2	1	3	35	9.380	2.417	3	2
49.	None	2	1	4	31	15.758	2.167	2.417	2.333
50.	None	2	1	5	31	8.590	2.417	2.917	2.667
51.	None	2	2	1	31	13.010	2.167	2.5	3.333
52.	None	2	2	2	28	10.411	2.417	2.417	1.333
53.	None	2	2	3	25	9.172	2.167	2.917	3.333
54.	None	2	2	4	22	10.732	2.5	2.583	2
55	None	2	2	5	29	13.503	2	2.917	2.333
56.	None	2	3	1	35	15.940	2.333	2.917	2.667
57.	None	2	3	2	36	14.225	1.5	1.583	2
58.	None	2	3	3	27	13.674	2.917	2.667	2
59.	None	2	3	4	31	13.632	2.417	2.5	3
60.	None	2	3	5	41	12.937	1.5	2.083	2
61.	None	19B	1	1	30	19.27	3.25	2.25	3
62.	None	19B	1	2	32	29.32	2.75	2.167	1.333
63.	None	19B	1	3	14	23.01	2.167	2.083	3
64.	None	19B	1	4	25	24.50	2.75	1.417	2.333
65.	None	19B	1	5	18	22.52	3.083	1.667	2.667
66.	None	19B	3	1	25	25.25	1.333	1	0
67.	None	19B	3	2	16	25.67	1.083	1.083	1
68.	None	19B	3	3	10	27.61	2.333	1.917	1.667
69.	None	19B	3	4	15	25.00	1.583	1.417	0.333
70.	None	19B	3	5	28	18.35	2.417	1.25	0.667
71.	None	20	2	1	20	23.27	3.333	2.417	2
72.	None	20	2	2	20	17.79	2.583	2.583	1.667
73.	None	20	2	3	18	18.72	2.667	1.917	3
74.	None	20	2	4	22	18.10	2.333	2.583	1.667
75.	None	20	2	5	11	32.83	3.25	1.917	2.333
76.	None	20	3	1	16	21.89	3.333	2.25	1.667
77	None	20	3	2	20	25.27	3.167	2.583	2
78.	None	20	3	3	14	20.39	2.833	2.5	2.333
79.	None	20	3	4	19	31.92	2.917	1.917	3
80.	None	20	3	5	23	15.730	3	2.167	1.667
81.	None	36A	1	1	21	25.51			
82.	None	36A	1	2	8	14.01			
83.	None	36A	1	3	35	24.90			
84.	None	36A	1	4	21	26.91			
85.	None	36A	1	5	60	21.125			
86.	None	40	3	1	31	23.41			
87.	None	40	3	2	69	17.962			
88.	None	40	3	3	66	19.668			
89.	None	40	3	4	35	25.80			
90	None	40	3	5	50	22.00			
91.	Severe	22	1	1	9	5.044	2.333	2.333	2
92.	Severe	22	1	2	14	7.750	2.333	2.75	3
93.	Severe	22	1	3	4	5.225	2.083	2.583	1.333
94.	Severe	22	1	4	16	8.050	2.083	2.917	2.333
95.	Severe	22	1	5	16	7.012	2.417	2.667	3.333
96.	Severe	22	2	1	15	9.047	2.917	2.333	2.333
97.	Severe	22	2	2	12	7.142	1.917	3.25	2.667
98.	Severe	22	2	3	16	12.18	2.833	2.833	1.333
99.	Severe	22	2	4	27	13.47	3.25	2.833	2
100.	Severe	22	2	5	3	5.267	2.5	3.25	1.667
101.	Severe	33	3	1	43	12.093	1.833	2.083	2.667
102.	Severe	33	3	2	28	12.671	1.25	2.417	3.333
103.	Severe	33	3	3	17	15.95	2.917	3.833	3
104.	Severe	33	3	4	21	11.85	2.8	2.333	4.333
105.	Severe	33	3	5	21	13.22	1.833	2.133	4

106.	Severe	36B	1	1	10	20.25	1.5	0.417	1.333
107.	Severe	36B	1	2	13	16.47	0.833	0.75	1
108.	Severe	36B	1	3	5	26.26	1.417	1.417	0.667
109.	Severe	36B	1	4	8	15.77	1.083	0.75	1
110.	Severe	36B	1	5	12	15.20	2.25	1.25	1.333
111.	Severe	36B	2	1	14	27.93	2	1.583	1.667
112.	Severe	36B	2	2	33	22.64	1.417	1.25	0
113.	Severe	36B	2	3	20	23.26	1.583	1.417	1.333
114.	Severe	36B	2	4	18	17.82	1.167	2.167	1
115.	Severe	36B	2	5	26	24.27	1.917	1.833	1.333
116.	Severe	36B	3	1	15	17.00	2.5	2	2.333
117.	Severe	36B	3	2	9	18.84	3.167	1.833	2
118.	Severe	36B	3	3	23	12.478	2.75	2.25	2.333
119.	Severe	36B	3	4	13	13.00	2.417	0.583	1.333
120.	Severe	36B	3	5	15	16.25	2.167	1.583	3.667
121.	Severe	37	1	1	41	15.885	2	1.25	1.333
122.	Severe	37	1	2	16	22.00	0.5	0.583	0.333
123.	Severe	37	1	3	9	23.50	1.333	1.167	2
124.	Severe	37	1	4	18	19.90	1.167	1.083	3
125.	Severe	37	1	5	13	17.61	2	1.083	1.667
126.	Severe	37	2	1	12	35.57	2.667	1.75	2
127.	Severe	37	2	2	19	21.61	3.167	2.333	1.667
128.	Severe	37	2	3	17	21.46	2.5	2	1.667
129.	Severe	37	2	4	37	21.83	3	1.583	2
130.	Severe	37	2	5	29	19.05	1.833	2.083	1.667
131.	Severe	37	3	1	16	20.82	3.25	1.5	2
132.	Severe	37	3	2	27	21.967	2.083	1.917	2.667
133.	Severe	37	3	3	20	18.16	3	1.417	2
134.	Severe	37	3	4	26	14.97	2.75	2	2.333
135.	Severe	37	3	5	29	22.84	2.917	1.917	2
136.	Slight	11	1	1	26	20.23	1.417	1.667	0.667
137.	Slight	11	1	2	55	13.320	1.25	1.333	2.333
138.	Slight	11	1	3	32	16.822	2.083	0.583	3
139.	Slight	11	1	4	31	20.28	2.083	1.417	2.333
140.	Slight	11	1	5	33	23.40	1.083	3.167	3.333
141.	Slight	11	2	1	48	18.988	2.25	1.167	2.667
142.	Slight	11	2	2	21	18.70	2.833	1.583	3.667
143.	Slight	11	2	3	35	16.060	3.917	2.667	2
144.	Slight	11	2	4	36	19.425	2	1	3
145.	Slight	11	2	5	36	14.947	1.833	2.083	2
146.	Slight	11	3	1	36	14.242	2.333	2.333	2.667
147.	Slight	11	3	2	28	16.571	2.25	3	1.667
148.	Slight	11	3	3	32	15.209	3.083	2.667	4
149.	Slight	11	3	4	30	40.29	1.25	2.417	3.667
150.	Slight	11	3	5	38	14.016	1	1.417	1.667
151.	Slight	19A	3	1	29	24.26	2.75	2	2.667
152.	Slight	19A	3	2	23	20.84	2.5	2.083	2
153.	Slight	19A	3	3	17	23.55	3.333	2	1
154.	Slight	19A	3	4	35	15.39	3.25	2.75	2
155.	Slight	19A	3	5	17	20.28	2.167	1.917	2.667
156.	Slight	19B	2	1	18	8.46	2.5	1.083	1
157.	Slight	19B	2	2	29	12.310	3	1.5	1.667
158.	Slight	19B	2	3	25	8.46	2.5	1.25	2
159.	Slight	19B	2	4	10	5.870	2.167	1.75	2.333
160.	Slight	19B	2	5	1	7.2000	2.083	1.583	1.333
161.	Slight	20	1	1	34	10.171	3.333	2.25	2.333
162.	Slight	20	1	2	20	15.08	3.083	2.167	1.333
163.	Slight	20	1	3	6	20.62	2.333	2.25	2

164.	Slight	20	1	4	22	12.31	2.583	2.25	1
165.	Slight	20	1	5	17	14.35	2.917	2	1.333
166.	Slight	26	2	1	38	16.274	3.333	2.25	2.667
167.	Slight	26	2	2	34	18.96	3.083	2.5	1.667
168.	Slight	26	2	3	40	15.62	1.167	3.417	1.667
169.	Slight	26	2	4	46	14.020	3.25	2.25	4
170.	Slight	26	2	5	42	17.38	4.25	2.083	1.667
171.	Slight	36A	3	1	21	18.14			
172.	Slight	36A	3	2	30	19.55			
173.	Slight	36A	3	3	7	23.97			
174.	Slight	36A	3	4	26	15.59			
175.	Slight	36A	3	5	22	13.45			
176.	Slight	40	2	1	23	18.25			
177.	Slight	40	2	2	11	19.65			
178.	Slight	40	2	3	16	22.21			
179.	Slight	40	2	4	11	16.43			
180.	Slight	40	2	5	37	18.849			
Notes: Compt. 191 =19A (1st site in compartment 19); 192= 19B (2nd site in compartment 19); 361 = 36A (1st site I compartment 36); compt 362 = 36B (2nd site in compartment 36)									

Appendix 4 : Total number of pneumatophores per 1 sq meter of sub-plot and average number of lenticels per sq cm at collar (Lencollar), middle (Lenmiddle) and top (Lentop) of the pneumatophores of sundri in four top dying severity classes in the in 36 samples in the Sundarbans as collected in June 2002.

Top dying severity	Compt	Plot	No. of pneu	Lencollar	Lenmiddle	LenTop
Moderate	26	1	21	1.50	1.33	2
Moderate	26	1	22	0.63	0.89	2
Moderate	26	1	13	1.88	1.33	1.5
Moderate	26	3	14	1.25	1.11	1
Moderate	26	3	10	0.75	0.67	0.5
Moderate	26	3	14	0.75	1.33	1
Moderate	33	1	40	0.38	0.67	0.5
Moderate	33	1	23	0.25	1.11	2
Moderate	33	1	33	0.38	0.89	1.5
Moderate	33	2	36	1.38	1.56	2
Moderate	33	2	28	1.75	1.11	1.5
Moderate	33	2	36	1.25	0.67	1
Moderate	36A	2	31	0.88	0.89	1.5
Moderate	36A	2	25	0.50	0.89	2.5
Moderate	36A	2	20	0.88	1.33	0.5
Moderate	40	1	41	1.50	2.00	0.5
Moderate	40	1	19	0.38	0.89	1.5
Moderate	40	1	29	0.75	1.33	0.5
None	2	1	55	1.50	0.89	1
None	2	1	63	2.38	1.56	1.5
None	2	1	55	1.63	1.56	3
None	2	2	144	2.75	1.56	1.5
None	2	2	162	1.25	0.89	1.5
None	2	2	116	2.38	2.22	3
None	2	3	168	1.38	0.44	2
None	2	3	174	2.75	1.78	2.5
None	2	3	130	1.50	0.67	2.5
None	20	2	35	0.88	0.67	2.5
None	20	2	25	0.75	1.33	1.5

None	20	2	30	1.00	0.67	0.5
None	20	3	52	1.38	2.67	0.5
None	20	3	61	0.63	1.33	1
None	20	3	70	0.50	0.44	1
None	36A	1	76	0.50	1.56	1.5
None	36A	1	31	1.00	0.44	0.5
None	36A	1	37	0.88	0.44	1.5
None	40	3	48	0.13	1.11	1
None	40	3	65	0.63	0.67	1.5
None	40	3	62	1.13	0.44	1.5
Severe	33	3	75	0.50	0.67	1
Severe	33	3	63	0.75	0.67	1
Severe	33	3	41	0.63	0.67	0.5
Severe	36B	1	7	0.25	0.44	1
Severe	36B	1	8	1.00	0.67	1
Severe	36B	1	9	0.50	0.44	1
Severe	36B	2	45	0.63	0.89	2.5
Severe	36B	2	44	1.38	1.78	1
Severe	36B	2	47	0.38	1.56	0.5
Severe	36B	3	3	0.38	0.89	1
Severe	36B	3	23	0.88	0.89	1.5
Severe	36B	3	40	0.50	1.11	2.5
Severe	37	1	40	0.88	0.22	1
Severe	37	1	9	1.13	0.67	0.5
Severe	37	1	6	0.63	0.67	1
Severe	37	2	15	0.63	1.11	0.5
Severe	37	2	22	0.63	0.89	3
Severe	37	2	16	0.63	0.67	2.5
Severe	37	3	18	0.88	0.44	0.5
Severe	37	3	21	0.25	0.00	1.5
Slight	11	1	12	1.13	0.89	3
Slight	11	1	130	1.38	1.56	3
Slight	11	1	144	0.88	0.89	1.5
Slight	11	2	116	1.63	1.11	1.5
Slight	11	2	57	1.25	1.33	3
Slight	11	2	67	1.25	1.78	1.5
Slight	11	3	77	2.00	2.44	1
Slight	11	3	57	2.00	2.67	2
Slight	11	3	63	1.38	0.89	1.5
Slight	20	1	80	1.25	1.56	1.5
Slight	20	1	42	1.38	0.89	0.5
Slight	20	1	36	0.50	0.22	2.5
Slight	26	2	140	1.75	1.11	2
Slight	26	2	47	1.13	1.56	0.5
Slight	26	2	54	1.75	2.00	2
Slight	36A	3	50	1.38	1.11	1.5
Slight	36A	3	33	1.25	0.67	1
Slight	36A	3	35	0.75	0.67	0.5
Slight	40	2	59	0.25	0.67	1
Slight	40	2	44	1.13	0.67	1.5
Slight	40	2	43	0.63	1.33	1

Appendix 5 : Data on the length of pneumatophores (in cm) of sundri measured in June 2002 from five one sq meter subplots from each of nine sample plots falling in none, nine sample plots of slight, five sample plots of moderate and seven sample plots of severe top dying of sundri in the Sundarbans.

Serial No.	Sample plots having no top dying (i.e. None)	Sample plots having slight top dying	Sample plots having moderate top dying	Sample plots having severe top dying
1.	12.7	3.18	29.21	24.13
2.	10.8	11.13	12.4	10.16
3.	2.87	2.54	15.57	13.34
4.	10.95	10.49	16.66	3.81
5.	10.64	13.49	9.22	8.26
6.	5.72	15.39	8.26	13.49
7.	10.49	10.16	8.1	3.51
8.	12.85	22.23	17.15	7.95
9.	0.97	9.86	13.34	9.04
10.	7.77	9.53	16.03	25.55
11.	9.22	12.07	18.75	5.41
12.	10.8	6.35	7.95	19.05
13.	4.78	8.89	9.86	18.75
14.	8.59	11.76	6.68	26.37
15.	8.89	12.7	7.62	5.87
16.	4.78	14.61	1.75	6.35
17.	8.59	20.02	9.22	26.37
18.	11.43	14.76	8.26	10.8
19.	9.22	5.08	15.72	3.81
20.	12.7	9.53	6.35	6.2
21.	10.49	10.16	17.3	6.5
22.	12.4	12.22	18.11	20.32
23.	7.62	7.47	10.8	8.74
24.	2.87	15.88	18.75	3.66
25.	6.35	7.62	13.18	2.54
26.	7.32	20.32	16.99	20.96
27.	6.35	14.3	6.05	24.46
28.	7.95	15.24	4.78	10.16
29.	8.59	6.35	16.03	5.72
30.	6.05	9.22	5.41	7.95
31.	8.26	8.89	3.81	10.8
32.	8.26	9.53	8.89	7.77
33.	8.26	13.34	4.29	5.23
34.	7.95	10.49	3.81	3.66
35.	12.4	10.64	7.95	10.8
36.	8.1	12.07	3.51	7.95
37.	6.68	22.23	8.26	11.13
38.	7.77	17.78	5.56	7.62
39.	7.95	24.13	3.51	13.03
40.	7.95	20.65	3.33	24.46
41.	13.03	6.35	4.45	15.24
42.	4.45	18.26	13.67	11.43
43.	9.22	13.03	13.34	7.77
44.	9.22	28.27	25.73	8.26
45.	5.08	6.35	11.43	10.16
46.	16.51	6.99	10.64	5.23

47.	8.41	33.17	7.95	7.32
48.	7.95	14.94	11.43	6.35
49.	7.62	19.38	19.38	8.74
50.	8.59	7.32	7.14	14.94
51.	5.56	7.95	10.49	11.58
52.	8.89	28.27	3.81	12.7
53.	6.68	16.03	9.86	14.61
54.	2.24	22.23	4.45	10.64
55.	14.61	24.13	6.35	4.45
56.	9.86	30.48	10.95	11.58
57.	3.33	8.89	4.6	8.89
58.	10.49	20.32	7.95	9.04
59.	6.68	28.73	4.14	14.76
60.	12.4	18.11	5.87	11.43
61.	9.22	16.51	35.56	8.1
62.	15.24	27.31	20.32	8.89
63.	12.07	32.08	8.26	8.74
64.	8.1	15.88	5.87	8.59
65.	3.02	20.96	6.68	7.62
66.	16.21	24.13	3.81	18.26
67.	13.97	19.53	23.5	7.32
68.	7.77	33.99	3.51	28.09
69.	8.1	21.29	3.81	13.49
70.	12.55	10.16	8.26	9.37
71.	7.95	26.37	8.41	25.55
72.	19.69	13.03	4.45	15.24
73.	8.89	3.81	5.72	5.72
74.	6.05	12.07	5.08	20.8
75.	10.8	9.22	1.27	16.03
76.	3.33	11.76	8.59	17.78
77.	13.97	14.61	4.14	8.89
78.	9.53	16.84	3.81	5.08
79.	7.77	22.56	3.18	25.1
80.	19.38	22.05	16.03	24.13
81.	7.32	16.36	15.57	5.72
82.	18.42	3.18	15.57	20.32
83.	11.43	8.26	19.38	22.86
84.	15.57	14.12	14.3	12.4
85.	19.05	10.49	6.68	17.78
86.	8.26	4.45	8.89	6.35
87.	14.94	19.69	8.74	17.93
88.	8.59	12.07	9.04	16.21
89.	3.33	4.78	6.2	19.2
90.	6.5	26.04	3.51	16.03
91.	6.99	20.47	3.02	16.66
92.	1.12	14.94	2.87	17.78
93.	8.1	15.24	1.27	23.19
94.	8.26	22.23	13.67	2.54
95.	5.41	10.31	27.64	3.51
96.	3.81	9.68	25.4	22.86
97.	5.56	7.62	19.05	13.97
98.	8.1	22.23	25.1	15.09

99.	7.62	19.53	24.77	17.48
100.	2.87	22.23	24.77	5.72
101.	8.41	17.78	15.09	10.16
102.	5.41	24.13	25.55	19.05
103.	7.95	20.65	15.88	20.32
104.	5.72	6.35	21.59	23.5
105.	7.62	18.26	14.3	23.01
106.	3.02	13.03	21.74	15.24
107.	8.1	28.27	7.62	17.48
108.	3.18	6.35	16.84	13.97
109.	5.56	6.99	10.49	12.85
110.	5.72	33.17	13.49	13.34
111.	5.23	14.94	20.8	15.39
112.	4.45	19.38	13.97	11.43
113.	8.89	7.32	18.11	2.87
114.	8.1	7.95	25.73	17.63
115.	10.16	28.27	27.31	10.16
116.	5.08	16.03	11.43	2.24
117.	5.41	22.23	16.51	15.24
118.	8.1	24.13	16.51	20.02
119.	5.41	30.48	17.78	5.08
120.	2.54	8.89	6.35	12.7
121.	10.49	20.32	17.78	4.45
122.	7.32	25.73	19.69	13.03
123.	3.66	18.11	12.7	2.87
124.	5.41	16.51	12.07	13.34
125.	5.08	27.31	7.62	15.57
126.	4.93	32.08	13.97	14.94
127.	6.35	15.88	17.78	12.7
128.	7.32	20.96	7.62	24.13
129.	2.24	24.13	2.87	15.88
130.	3.81	19.53	5.72	12.07
131.	9.22	33.99	17.48	11.13
132.	4.45	21.29	7.62	26.67
133.	2.54	28.58	10.8	15.57
134.	9.22	25.73	16.51	16.51
135.	7.77	13.97	2.54	19.69
136.	7.47	23.34	20.32	17.78
137.	4.78	12.07	2.54	27.31
138.	10.31	19.53	19.05	11.13
139.	8.89	16.34	18.42	10.49
140.	6.99	22.07	12.7	28.91
141.	3.18	25.88	16.51	6.99
142.	7.95	27	15.57	15.24
143.	5.08	25.1	17.78	30.48
144.	15.72	35.56	13.03	26.04
145.	15.57	9.53	11.43	22.23
146.	6.99	12.4	15.24	23.83
147.	15.88	16.66	12.7	25.4
148.	6.35	20.65	10.16	15.24
149.	14.3	12.85	10.16	19.05
150.	6.83	13.97	5.08	20.32

151.	5.56	32.54	28.27	16.21
152.	8.41	20.47	7.95	26.67
153.	13.03	15.88	28.58	23.19
154.	13.34	18.11	16.84	20.32
155.	8.41	13.97	6.99	8.89
156.	11.43	31.75	7.95	14.3
157.	8.89	32.72	6.35	21.11
158.	22.56	13.97	11.76	9.53
159.	6.35	10.49	5.72	11.43
160.	5.56	11.43	12.4	17.3
161.	6.05	9.53	12.7	17.78
162.	13.82	17.93	14.3	20.32
163.	13.97	12.85	17.93	14.61
164.	13.03	15.88	7.47	10.16
165.	9.86	16.51	15.24	22.71
166.	17.15	21.59	12.55	14.76
167.	13.03	9.53	7.32	23.98
168.	6.99	2.87	2.54	18.42
169.	7.95	21.29	4.45	13.03
170.	22.86	18.57	7.77	14.94
171.	17.78	18.11	7.95	10.31
172.	14.76	17.15	11.43	18.57
173.	8.89	8.59	12.4	15.57
174.	5.08	11.76	17.78	16.66
175.	7.62	10.8	22.23	16.51
176.	7.95	24.46	7.62	11.28
177.	4.78	11.13	8.26	4.14
178.	7.62	17.15	7.62	25.55
179.	2.39	24.77	5.72	23.01
180.	8.89	15.24	12.7	25.25
181.	5.41	13.97	8.89	16.51
182.	7.32	11.13	22.86	24.13
183.	6.35	6.35	2.54	23.5
184.	7.62	10.16	13.34	13.97
185.	6.99	24.77	13.03	25.73
186.	9.22	15.88	18.42	21.11
187.	10.16	11.13	17.78	25.4
188.	10.49	10.16	10.16	26.52
189.	10.49	9.22	17.48	13.97
190.	4.78	19.05	27.94	24.13
191.	10.49	7.32	22.86	15.57
192.	4.93	7.62	24.46	11.43
193.	0.79	13.18	17.78	18.57
194.	6.68	18.75	10.16	10.8
195.	10.8	13.34	27.94	15.57
196.	6.99	22.38	15.24	33.81
197.	9.53	23.5	24.13	17.78
198.	13.03	14.45	14.94	25.73
199.	6.99	15.57	30.48	22.71
200.	2.54	20.65	10.01	19.05
201.	3.81	15.88	12.07	24.13
202.	11.43	14.94	30.48	30.96

203.	6.35	12.07	16.51	31.27
204.	4.78	14.94	10.01	17.15
205.	9.86	17.3	13.18	26.19
206.	7.95	27.64	12.7	10.49
207.	15.09	11.13	20.32	20.02
208.	14.61	19.69	10.8	21.11
209.	15.57	10.49	10.49	27
210.	5.41	9.22	20.32	7.62
211.	14.61	15.83	10.8	24.92
212.	18.42	15.72	20.96	8.89
213.	15.57	12.4	18.11	14.61
214.	18.42	14.94	15.57	16.21
215.	7.32	19.05	14.76	18.75
216.	6.35	10.49	23.34	15.57
217.	10.8	16.51	17.3	15.24
218.	13.03	12.7	12.4	18.75
219.	15.39	22.56	12.7	22.71
220.	5.08	19.38	27.79	20.8
221.	11.43	27.64	11.13	24.77
222.	14.61	28.58	17.63	19.05
223.	10.8	20.96	21.74	24.77
224.	15.72	28.91	19.2	18.57
225.	10.16	30.63	20.32	22.38
226.	20.32	32.08	20.17	28.27
227.	10.49	17.15	20.57	29.85
228.	3.51	18.26	23.19	24.92
229.	5.23	20.96	17.78	20.32
230.	8.26	7.95	26.04	39.07
231.	12.4	8.74	21.92	27.31
232.	13.18	5.72	8.89	25.4
233.	13.18	15.88	19.05	27.94
234.	15.24	21.11	19.69	24.46
235.	8.26	24.77	18.75	11.13
236.	10.8	5.72	16.51	19.69
237.	7.32	20.96	13.49	31.27
238.	7.95	22.56	14.3	24.46
239.	12.22	21.29	13.34	11.43
240.	5.08	17.15	6.5	25.1
241.	10.01	14.3	12.85	21.44
242.	5.72	16.21	20.47	36.35
243.	11.43	12.07	5.72	30.81
244.	11.58	11.13	23.65	14.3
245.	21.59	24.46	15.24	11.28
246.	18.26	14.12	15.24	16.84
247.	18.42	16.51	10.16	11.76
248.	12.07	28.91	12.7	33.5
249.	19.05	11.76	4.93	27.31
250.	9.53	23.65	17.93	30.48
251.	17.48	24.46	19.05	6.05
252.	7.32	15.88	18.57	22.86
253.	10.8	15.72	12.7	8.59
254.	8.89	10.31	27.79	10.8

255.	12.4	11.76	20.32	21.44
256.	6.05	47.63	19.05	10.95
257.	9.53	8.89	17.78	18.57
258.	8.26	16.21	16.51	28.27
259.	10.95	11.76	8.26	22.23
260.	3.18	13.49	15.57	15.72
261.	17.78	29.21	22.86	11.28
262.	16.99	7.47	5.08	23.19
263.	8.89	8.26	7.62	16.03
264.	7.77	20.32	5.72	10.16
265.	11.28	15.88	3.18	14.61
266.	10.8	20.47	24.46	36.2
267.	8.41	15.72	24.77	11.43
268.	11.43	18.57	10.8	14.94
269.	10.95	15.88	21.92	20.65
270.	4.78	10.16	10.16	30.96
271.	10.49	17.63	21.44	28.58
272.	9.86	14.3	16.03	18.26
273.	7.95	20.17	10.16	28.91
274.	7.95	23.19	16.51	29.21
275.	7.32	13.97	10.16	21.11
276.	10.8	4.14	5.08	26.82
277.	9.53	4.78	23.83	37.16
278.	10.16	22.86	20.17	18.9
279.	15.88	20.02	32.39	24.77
280.	8.89	25 73	10.16	28.42
281.	4.45	17.15	10.16	29.06
282.	10.49	2.87	7.62	31.45
283.	9.04	3.81	5.08	14.3
284.	7.62	27.15	23.5	22.38
285.	8.1	2.69	31.12	30.48
286.	14.94	12.07	17.78	35.56
287.	10.49	9.22	18.11	30.48
288.	12.4	16.03	13.34	28.73
289.	11.76	9.86	25.4	31.75
290.	10.64	10.49	40.97	34.29
291.	12.07	5.72	16.84	17.78
292.	15.72	6.35	13.34	14.3
293.	10.8	4.78	20.32	24.77
294.	8.89	5.08	15.24	16.51
295.	8.89	13.49	22.86	29.54
296.	4.45	11.76	26.04	20.32
297.	4.29	17.15	19.05	24.13
298.	7.62	6.68	18.42	24.77
299.	5.72	10.95	5.72	17.78
300.	11.13	17.48	13.67	17.15
301.	6.35	12.4	18.9	13.97
302.	7.32	11.43	32.08	20.32
303.	15.57	6.35	11.76	9.53
304.	5.72	9.86	31.75	10.49
305.	11.76	14.94	8.26	6.35
306.	7.95	11.43	30.48	7.62

307.	15.09	8.26	36.2	12.7
308.	10.16	26.04	35.56	7.95
309.	10.49	6.05	35.56	15.24
310.	3.81	16.99	30.18	10.95
311.	9.53	5.41	18.42	19.05
312.	3.51	6.05	15.24	14.3
313.	3.81	18.75	12.4	6.99
314.	13.72	17.15	24.77	7.62
315.	6.35	13.34	20.65	13.49
316.	7.95	10.8	29.85	16.51
317.	21.29	4.45	10.16	13.34
318.	9.22	21.92	17.78	17.93
319.	4.45	12.55	19.38	16.03
320.	4.14	13.67	19.05	20.65
321.	5.56	16.36	10.8	8.26
322.	9.68	24.46	38.1	7.95
323.	2.87	7.32	15.57	6.68
324.	7.62	22.23	23.19	16.36
325.	3.81	13.97	36.2	28.91
326.	9.86	5.72	16.51	18.75
327.	21.59	19.05	30.73	10.16
328.	1.91	18.75	7.62	19.69
329.	10.8	10.64	31.12	22.86
330.	7.32	16.84	27.94	23.5
331.	10.31	18.11	28.27	15.88
332.	13.34	20.32	9.22	12.55
333.	15.24	15.88	35.26	20.32
334.	15.39	7.95	27.64	16.03
335.	12.7	2.54	30.63	31.75
336.	9.22	20.02	27.94	17.93
337.	8.59	16.84	20.8	22.23
338.	16.66	13.34	33.66	15.57
339.	10.8	8.26	28.27	15.57
340.	1.42	6.35	10.49	17.93
341.	10.31	12.07	23.5	22.23
342.	4.45	3.18	38.89	10.49
343.	19.05	16.21	32.72	18.11
344.	5.41	15.09	22.86	15.72
345.	3.02	6.05	15.57	22.86
346.	6.35	22.23	15.88	16.51
347.	12.85	11.43	17.78	11.43
348.	10.31	13.97	17.78	15.09
349.	7.14	14.61	37.8	14.76
350.	13.03	3.81	33.02	20.47
351.	8.89	6.68	30.18	5.08
352.	7.62	20.02	14.48	22.86
353.	9.86	13.34	38.1	21.59
354.	11.13	22.56	14.61	14.3
355.	15.57	20.32	33.02	16.84
356.	5.41	13.49	1.78	13.49
357.	11.43	7.95	21.92	21.59
358.	7.95	22.71	19.69	10.8

359.	12.7	6.99	15.24	17.3
360.	11.76	5.72	27.94	18.9
361.	13.34	14.61	32.08	25.4
362.	13.34	14.3	17.78	8.89
363.	9.86	6.99	21.59	13.34
364.	19.05	26.37	22.86	23.01
365.	13.97	26.04	29.54	7.47
366.	5.08	26.37	11.76	33.99
367.	5.23	16.84	35.56	22.71
368.	8.26	17.48	26.37	35.56
369.	5.41	8.89	15.24	27.94
370.	5.87	15.57	16.84	21.92
371.	7.62	30.81	12.7	16.66
372.	3.81	30.96	10.16	31.12
373.	14.3	14.61	16.84	23.19
374.	7.47	7.77	7.62	24.92
375.	10.31	18.26	21.92	21.11
376.	4.14	20.65	8.26	15.24
377.	12.07	12.07	6.99	10.31
378.	13.67	6.68	12.85	15.24
379.	8.41	11.76	21.59	16.03
380.	10.8	5.41	13.03	10.16
381.	9.22	10.8	3.33	35.08
382.	12.07	14.76	18.9	40.97
383.	10.64	3.18	8.89	42.7
384.	14.76	10.16	2.54	30.81
385.	15.88	6.83	3.81	39.07
386.	14.94	5.41	10.16	27
387.	3.81	20.96	16.51	24.13
388.	15.57	9.53	18.11	22.86
389.	13.97	8.26	3.51	24.28
390.	8.59	20.96	5.08	15.24
391.	9.53	7.62	3.81	14.3
392.	13.34	10.49	9.04	49.86
393.	13.97	19.84	10.31	13.97
394.	12.07	18.42	7.62	27.94
395.	9.37	16.51	10.16	12.7
396.	16.84	14.94	8.89	35.56
397.	19.84	17.48	13.34	26.67
398.	12.4	21.44	6.05	20.32
399.	12.7	7.62	5.08	15.24
400.	4.78	13.67	9.53	18.42
401.	13.97	7.32	5.87	12.7
402.	15.09	6.68	10.31	13.97
403.	6.35	10.01	16.99	25.4
404.	11.43	13.97	3.18	33.02
405.	17.78	19.05	6.83	26.67
406.	13.03	21.59	13.97	15.24
407.	6.99	14.61	7.62	27.64
408.	6.68	17.78	2.87	25.4
409.	12.7	12.22	8.89	19.05
410.	8.74	20.02	18.57	13.18

411.	14.61	15.24	15.24	15.72
412.	14.3	12.07	14.12	30.48
413.	3.81	7.95	17.15	23.5
414.	6.2	10.31	12.7	16.51
415.	16.84	13.34	15.24	27.94
416.	10.16	19.05	17.78	31.12
417.	1.27	3.18	22.86	35.56
418.	9.86	14.12	25.4	20.96
419.	14.3	8.26	11.58	35.56
420.	12.07	17.3	14.12	25.4
421.	14.61	17.48	25.73	20.96
422.	13.34	11.76	18.75	26.67
423.	8.89	17.48	20.02	17.78
424.	13.18	14.61	23.34	19.05
425.	20.02	14.3	20.96	33.02
426.	2.87	10.95	12.07	23.34
427.	5.72	23.83	19.69	15.24
428.	8.26	15.88	20.32	32.39
429.	8.26	14.61	15.24	13.97
430.	14.3	12.7	12.7	35.56
431.	5.23	16.84	7.62	33.02
432.	8.89	10.8	14.94	36.2
433.	6.35	7.95	10.31	27
434.	9.68	11.76	10.8	30.48
435.	6.68	20.96	8.1	19.38
436.	7.95	17.78	13.34	17.78
437.	10.49	7.95	8.89	15.24
438.	7.32	17.15	15.24	24.13
439.	16.51	11.43	11.58	33.81
440.	13.34	3.18	10.49	22.86
441.	11.43	10.49	5.72	25.73
442.	13.97	3.81	20.32	27.94
443.	7.62	11.76	8.59	20.96
444.	8.26	19.69	6.99	19.05
445.	5.08	16.84	5.72	27.15
446.	10.31	18.42	9.53	15.24
447.	10.8	10.64	10.8	22.23
448.	11.43	18.26	14.12	20.32
449.	10.16	17.48	8.89	38.1
450.	7.62	17.78	13.67	14.61
451.	10.64	9.22	3.81	20.65
452.	16.03	14.76	10.31	15.24
453.	16.03	9.22	5.08	23.5
454.	3.18	17.15	10.16	5.41
455.	13.34	18.42	6.99	10.16
456.	15.72	20.47	5.72	15.24
457.	2.54	16.84	10.49	20.32
458.	17.78	3.81		17.78
459.	10.8	11.43		10.16
460.	3.18	18.11		5.08
461.	3.81	10.95		17.78
462.	11.76	12.07		33.02

463.	4.14	10.16		30.48
464.	2.54	5.41		22.86
465.	11.13	13.18		33.02
466.	15.39	9.86		29.21
467.	9.37	15.24		25.4
468.	10.16	6.35		17.78
469.	11.43	18.42		15.88
470.	3.81	19.05		33.02
471.	13.03	20.32		20.96
472.	10.16	17.93		22.86
473.	15.72	9.53		22.86
474.	12.85	7.32		35.56
475.	14.3	10.49		12.7
476.	18.57	13.97		12.7
477.	5.72	13.67		25.4
478.	10.31	13.34		15.24
479.	17.78	14.76		17.78
480.	15.24	17.48		11.43
481.	10.49	17.48		17.78
482.	12.55	14.3		34.29
483.	7.77	20.02		30.48
484.	15.88	7.77		20.8
485.	15.57	18.75		
486.	6.35	5.72		
487.	11.13	11.43		
488.	7.77	10.31		
489.	19.38	12.07		
490.	4.78	15.57		
491.	15.39	13.34		
492.	7.32	13.97		
493.	11.43	10.49		
494.	15.88	8.89		
495.	11.76	8.26		
496.	14.94	13.34		
497.	13.49	11.58		
498.	12.7	16.03		
499.	15.24	11.43		
500.	10.31	21.11		
501.	10.64	17.15		
502.	11.13	5.72		
503.	12.7	6.99		
504.	3.81	8.26		
505.	12.55	17.78		
506.	5.87	12.7		
507.	11.43	15.88		
508.	16.51	14.94		
509.	15.88	10.16		
510.	11.43	6.35		
511.	20.02	11.13		
512.	8.26	12.07		
513.	7.77	17.15		
514.	22.07	16.51		

515.	11.43	6.05		
516.	10.8	18.42		
517.	13.97	18.75		
518.	13.97	8.1		
519.	30.81	13.49		
520.	20.47	3.81		
521.	20.65	18.42		
522.	20.02	12.07		
523.	27.15	9.04		
524.	13.49	5.72		
525.	11.43	5.72		
526.	11.76	11.76		
527.	19.05	14.76		
528.	13.97	20.8		
529.	22.23	10.8		
530.	19.69	23.01		
531.	31.12	10.49		
532.	21.92	13.97		
533.	22.23	12.07		
534.	19.05	16.21		
535.	23.83	6.35		
536.	23.01	9.53		
537.	29.21	15.24		
538.	37.16	15.39		
539.	22.56	8.59		
540.	30.18	11.43		
541.	7.32	12.7		
542.	25.1	12.4		
543.	28.58	15.88		
544.	17.48	10.16		
545.	20.8	6.99		
546.	20.32	5.08		
547.	25.73	6.35		
548.	33.02	19.69		
549.	28.58	20.96		
550.	11.43	11.43		
551.	36.83	5.72		
552.	29.21	10.16		
553.	27.94	9.65		
554.	23.5	15.24		
555.	16.51	20.96		
556.	22.56	15.39		
557.	18.42	12.07		
558.	27	6.68		
559.	23.01	13.67		
560.	30.48	2.54		
561.	10.16	17.48		
562.	25.4	30.18		
563.	9.86	7.14		
564.	33.02	3.81		
565.	6.99	8.26		
566.	8.89	5.23		

567.	7.95	17.3		
568.	25.73	15.39		
569.	22.86	4.78		
570.	34.62	7.95		
571.	8.59	15.88		
572.	32.39	4.45		
573.	9.22	7.77		
574.	15.88	28.09		
575.	12.07	8.59		
576.	25.88	20.47		
577.	9.86	7.95		
578.	29.21	5.08		
579.	6.99	11.13		
580.	21.11	6.99		
581.	8.89	27.64		
582.	19.38	11.13		
583.	25.55	18.75		
584.	12.4	1.91		
585.	7.62	2.24		
586.	24.13	19.84		
587.	3.51	22.23		
588.	9.22	33.02		
589.	8.41	14.61		
590.	26.67	15.88		
591.	3.02	8.59		
592.	21.92	20.47		
593.	38.74	18.42		
594.	24.13	6.05		
595.	25.4	18.11		
596.	28.73	19.53		
597.	21.74	8.89		
598.	15.57	2.24		
599.	13.34	21.29		
600.	14.61	10.49		
601.	18.11	33.35		
602.	16.26	18.42		
603.	8.89	38.74		
604.	8.26	27.94		
605.	15.88	20.96		
606.	17.78	12.07		
607.	10.16	25.73		
608.	15.57	44.15		
609.	15.24	28.58		
610.	17.93	23.01		
611.	11.43	37.47		
612.	7.62	35.56		
613.	8.59	23.01		
614.	16.51	11.43		
615.	20.65	15.24		
616.	7.95	12.85		
617.	16.84	15.88		
618.	21.92	5.41		

619.	16.84	5.08		
620.	16.51	6.68		
621.	27.94	5.08		
622.	22.23	1.6		
623.	37.16	5.72		
624.	15.88	1.12		
625.	38.74	3.81		
626.	25.4	3.81		
627.	33.02	2.87		
628.	14.61	6.99		
629.	14.94	3.51		
630.	5.08	3.81		
631.	16.51	3.81		
632.	15.88	6.68		
633.	12.7	4.14		
634.	33.66	3.51		
635.	16.84	6.05		
636.	24.46	6.05		
637.	28.27	5.23		
638.	29.85	4.45		
639.	19.38	4.14		
640.	33.02	8.26		
641.	22.86	3.02		
642.	43.33	6.68		
643.	20.65	8.41		
644.	21.74	5.72		
645.	19.05	8.26		
646.	12.7	9.22		
647.	13.34	16.51		
648.	12.19	8.89		
649.	19.05	6.68		
650.	24.13	10.49		
651.	13.34	15.88		
652.	17.15	10.8		
653.	21.59	8.89		
654.	12.7	13.97		
655.	18.42	5.41		
656.	13.67	7.32		
657.	23.01	9.22		
658.	16.51	5.72		
659.	25.88	10.8		
660.	13.82	8.74		
661.	13.34	15.24		
662.	16.51	5.72		
663.	23.19	6.99		
664.	19.05	11.43		
665.	17.48	5.56		
666.	13.97	13.34		
667.	20.32	10.49		
668.	16.84	9.53		
669.	12.7	13.67		
670.	5.56	7.77		

671.	20.8	10.16		
672.	15.88	9.53		
673.	15.24	12.7		
674.	12.7	9.53		
675.	20.02	6.35		
676.	17.48	14.61		
677.	13.67	8.1		
678.	1.91	7.62		
679.	15.88	14.3		
680.	2.87	15.24		
681.	17.78	8.26		
682.	6.35	15.24		
683.	19.05	9.53		
684.	7.95	10.95		
685.	15.57	14.3		
686.	3.18	9.22		
687.	15.24	8.89		
688.	5.72	13.18		
689.	15.72	10.16		
690.	28.27	9.53		
691.	17.15	4.45		
692.	17.93	15.57		
693.	16.84	9.53		
694.	14.3	8.26		
695.	15.57	8.89		
696.	16.51	7.62		
697.	9.86	6.35		
698.	5.56	13.97		
699.	15.72	7.62		
700.	28.27	13.34		
701.	12.55	18.57		
702.	5.72	11.76		
703.	10.64	7.62		
704.	10.49	9.86		
705.	7.95	8.89		
706.	8.74	12.7		
707.	24.46	5.72		
708.	22.86	10.8		
709.	9.53	10.8		
710.	15.57	7.62		
711.	13.97	8.89		
712.	25.4	16.36		
713.	8.26	14.61		
714.	18.11	15.57		
715.	12.7	8.74		
716.	31.12	10.49		
717.	22.23	10.8		
718.	27.94	15.09		
719.	10.16	7.62		
720.	14.94	14.3		
721.	7.95	18.42		
722.	16.51	19.84		

723.	13.18	9.86		
724.	19.38	15.88		
725.	22.86	7.62		
726.	20.32	15.24		
727.	13.03	17.15		
728.	9.53	13.34		
729.	20.02	17.78		
730.	15.39	10.8		
731.	16.03	12.7		
732.	9.65	12.7		
733.	10.8	13.34		
734.	28.58	15.24		
735.	27.94	8.41		
736.	9.22	10.49		
737.	18.42	8.89		
738.	23.34	9.53		
739.	32.23	6.35		
740.	25.4	20.32		
741.	30.48	20.32		
742.	5.41	5.72		
743.	17.78	4.45		
744.	11.43	31.75		
745.	16.51	23.19		
746.	6.99	15.24		
747.	10.8	18.11		
748.	28.58	12.7		
749.	29.21	6.35		
750.	22.86	13.34		
751.	20.32	7.32		
752.	13.34	8.89		
753.	20.65	7.62		
754.	15.39	5.72		
755.	27.94	9.53		
756.	7.95	9.53		
757.	17.78	26.04		
758.	6.99	8.74		
759.	18.42	13.97		
760.	27.31	10.16		
761.	13.97	7.62		
762.	20.96	12.7		
763.	7.62	15.24		
764.	20.47	15.24		
765.	10.31	10.16		
766.	8.26	5.23		
767.	6.05	5.72		
768.	27.94	12.7		
769.	15.24	8.26		
770.	5.72	7.95		
771.	10.16	5.08		
772.	16.51	3.18		
773.	19.2	5.41		
774.	16.84	3.18		

775.	13.97	8.1		
776.	16.84	7.95		
777.	15.24	8.1		
778.	8.41	6.35		
779.	4.14	7.62		
780.	11.13	5.08		
781.	16.84	12.7		
782.	6.68	5.08		
783.	6.35	23.19		
784.	20.8	9.53		
785.	20.65	7.77		
786.	24.77	15.88		
787.	19.05	6.35		
788.	21.92	11.13		
789.	14.61	5.41		
790.	6.05	3.96		
791.	17.15	5.72		
792.	16.03	4.14		
793.	33.66	10.01		
794.	13.18	12.55		
795.	20.96	10.8		
796.	21.59	6.35		
797.	22.56	15.57		
798.	7.62	8.26		
799.	9.53	8.41		
800.	10.8	21.59		
801.	12.4	7.95		
802.	9.53	18.9		
803.	15.24	20.47		
804.	23.65	7.95		
805.	5.56	1.6		
806.	20.32	6.05		
807.	23.34	6.35		
808	33.5	9.22		
809.	11.76	6.35		
810.	30.81	3.81		
811.	14.61	9.53		
812.	20.32	3.18		
813.	13.34	3.33		
814.	13.03	3.81		
815.	33.81	9.22		
816.	15.88	8.89		
817.	28.58	5.72		
818.	12.07	14.12		
819.	11.76	14.12		
820.	15.72	0.96		
821.	11.43	0.79		
822.	23.65	11.13		
823.	13.97	10.31		
824.	29.85	5.23		
825.	15.24	13.18		
826.	13.18	14.12		

827.	26.67	24.77		
828.	15.88	8.59		
829.	26.67	6.35		
830.	24.77	19.53		
831.	19.69	3.18		
832.	33.02	4.14		
833.	20.65	5.56		
834.	19.69	4.45		
835.	20.47	30.81		
836.	33.66	5.41		
837.	20.96	9.22		
838.	20.96	23.19		
839.	19.05	5.72		
840.	21.29	5.23		
841.	25.4	9.53		
842.	20.32	7.77		
843.	20.32	18.11		
844.	20.65	8.59		
845.	32.39	19.84		
846.	27.94	30.48		
847.	25.55	5.87		
848.	28.58	9.86		
849.	21.44	10.95		
850.	17.78	12.65		
851.	23.5	3.18		
852.	20.32	5.08		
853.	25.4	12.07		
854.	19.69	5.87		
855.	29.21	4.14		
856.	16.51	6.68		
857.	27.94	9.86		
858.	8.89	14.45		
859.	25.4	18.42		
860.	15.88	14.94		
861.	10.8	23.5		
862.	21.92	15.88		
863.	21.11	21.92		
864.	16.84	3.91		
865.	17.78	13.97		
866.	19.38	13.67		
867.	17.93	20.65		
868.	13.67	18.42		
869.	16.66	3.51		
870.	12.07	16.03		
871.	11.43	23.5		
872.	18.11	20.02		
873.	13.03	13.03		
874.	8.74	17.15		
875.	18.26	14.3		
876.	11.43	28.58		
877.	16.66	13.03		
878.	12.07	28.73		

879.	14.3	11.43		
880.	11.13	27.31		
881.	16.36	8.26		
882.	19.05	7.32		
883.	10.16	7.77		
884.	11.58	6.35		
885.	14.12	11.43		
886.	10.49	11.76		
887.	16.84	13.34		
888.	15.57	21.92		
889.	17.93	24.46		
890.	6.68	22.56		
891.	11.13	18.42		
892.	18.42	20.02		
893.	17.15	13.03		
894.	17.48	15.57		
895.	35.89	15.57		
896.	25.4	13.34		
897.	11.76	9.22		
898.	20.32	8.1		
899.	31.75	14.61		
900.	34.29	9.22		
901.	23.5	16.51		
902.	19.05	13.97		
903.	34.29	13.82		
904.	35.56	14.12		
905.	24.28	9.04		
906.	28.09	23.5		
907.	35.26	22.86		
908.	28.27	29.85		
909.	21.92	25.1		
910.	31.12	31.75		
911.	22.56	8.89		
912.	27.94	10.16		
913.	30.48	8.89		
914.	37.47	12.7		
915.	23.98	9.37		
916.	28.27	8.89		
917.	18.75	11.76		
918.	42.88	13.97		
919.	30.18	15.24		
920.	31.12	19.53		
921.	20.32	18.42		
922.	11.43	12.7		
923.	15.88	19.05		
924.	29.54	12.7		
925.	25.4	12.07		
926.	30.63	16.51		
927.	25.1	10.16		
928.	29.21	6.99		
929.	38.25	20.32		
930.	28.27	13.67		

931.	17.78	15.39		
932.	17.48	12.85		
933.	17.93	16.51		
934.	23.19	11.76		
935.	25.4	15.72		
936.	25.4	10.49		
937.	22.56	14.61		
938.	15.39	10.49		
939.	14.61	7.62		
940.	36.83	8.89		
941.	20.96	10.31		
942.	24.13	8.26		
943.	22.86	9.22		
944.	10.49	16.51		
945.	20.32	7.62		
946.	18.26	18.42		
947.	23.34	10.49		
948.	29.54	17.78		
949.	36.83	15.57		
950.	18.11	6.35		
951.	22.86	9.86		
952.	18.11	12.07		
953.	17.78	20.32		
954.	27.94	9.53		
955.	30.48	13.97		
956.	19.38	15.24		
957.	13.34	23.65		
958.	10.31	17.93		
959.	17.78	5.08		
960.	7.62	20.32		
961.	15.09	13.18		
962.	24.46	9.53		
963.	15.88	5.41		
964.	20.96	5.08		
965.	30.63	15.24		
966.	11.43	25.55		
967.	29.54	15.57		
968.	16.51	10.49		
969.	28.27	22.56		
970.	11.58	4.45		
971.	29.54	13.13		
972.	25.4	16.84		
973.	10.49	20.65		
974.	21.92	19.05		
975.	20.02	4.45		
976.	22.23	11.76		
977.	19.05	14.76		
978.	14.94	12.7		
979.	15.57	12.07		
980.	11.43	15.24		
981.	19.38	8.89		
982.	20.32	20.8		

983.	23.01	12.7		
984.	22.86	15.57		
985.	30	10.16		
986.	19.05	20.32		
987.	30.48	8.26		
988.	22.86	27.31		
989.	26.04	17.78		
990.	27.64	8.26		
991.	24.13	9.53		
992.	19.69	23.34		
993.	21.59	5.08		
994.	17.78	15.72		
995.	20.02	13.97		
996.	15.88	10.64		
997.	17.78	15.24		
998.	25.4	20.47		
999.	19.38	18.11		
1000.	16.51	20.02		
1001.	10.16	13.34		
1002.	38.1	15.57		
1003.	15.24	15.88		
1004.	6.99	3.81		
1005.	23.5	27		
1006.	20.96	13.34		
1007.	26.67	20.02		
1008.	22.86	21.59		
1009.	20.65	10.8		
1010.	20.32	20.96		
1011.	15.57	8.89		
1012.	23.5	10.16		
1013.	22.86	19.05		
1014.	26.04	12.4		
1015.	26.04	20.32		
1016.	15.57	22.23		
1017.	22.86	9.86		
1018.	24.46	13.97		
1019.	23.5	18.42		
1020.	25.73	14.61		
1021.	28.27	8.89		
1022.	33.5	21.92		
1023.	25.88	15.24		
1024.	30.81	20.57		
1025.	23.83	22.07		
1026.	12.4	21.11		
1027.	18.11	21.44		
1028.	25.73	16.51		
1029.	38.43	16.51		
1030.	15.88	16.99		
1031.	24.46	13.18		
1032.	27.31	22.86		
1033.	19.05	21.59		
1034.	19.38	20.96		

1035.	27.64	14.61		
1036.	38.1	21.74		
1037.	31.75	17.78		
1038.	41.12	18.75		
1039.	27	15.24		
1040.	27.94	16.51		
1041.	31.6	20.96		
1042.	18.75	24.77		
1043.	25.4	14.94		
1044.	11.43	13.18		
1045.	23.5	13.67		
1046.	10.16	24.46		
1047.	15.24	19.05		
1048.	15.88	16.21		
1049.	13.97	15.57		
1050.	15.24	20.32		
1051.	16.51	9.86		
1052.	23.19	24.13		
1053.	13.34	19.69		
1054.	22.23	25.1		
1055.	23.19	22.23		
1056.	12.7	22.23		
1057.	29.21	25.4		
1058.	25.4	17.78		
1059.	16.51	15.24		
1060.	3.81	19.05		
1061.	25.4	17.15		
1062.	17.48	16.51		
1063.	14.3	12.4		
1064.	11.43	22.23		
1065.	13.34	23.19		
1066.	10.49	13.34		
1067.	6.68	15.24		
1068.	23.5	12.4		
1069.	21.29	14.94		
1070.	17.15	5.72		
1071.	24.13	12.7		
1072.	17.78	14.61		
1073.	19.05	7.62		
1074.	20.65	17.48		
1075.	16.21	6.35		
1076.	8.26	16.21		
1077.	6.35	12.07		
1078.	16.51	12.7		
1079.	16.26	7.62		
1080.	9.53	12.07		
1081.	6.99	15.24		
1082.	6.99	8.74		
1083.	14.94	11.28		
1084.	13.97	17.78		
1085.	9.86	12.07		
1086.	19.05	13.34		

1087.	12.7	8.89		
1088.	20.96	8.26		
1089.	27.94	14.94		
1090.	8.59	6.35		
1091.	15.88	20.02		
1092.	18.42	5.08		
1093.	3.02	19.38		
1094.	15.72	24.77		
1095.	15.88	21.59		
1096.	17.78	5.72		
1097.	10.49	17.78		
1098.	18.42	12.7		
1099.	10.49	26.04		
1100.	27.94	24.13		
1101.	24.77	22.23		
1102.	14.3	25.1		
1103.	5.08	14.61		
1104.	10.49	13.34		
1105.	27.94	11.43		
1106.	10.31	18.75		
1107.	11.43	14.61		
1108.	20.02	23.19		
1109.	13.03	20.96		
1110.	3.81	23.5		
1111.	18.11	33.5		
1112.	11.43	17.78		
1113.	35.26	36.2		
1114.	15.88	26.04		
1115.	16.84	5.72		
1116.	6.35	35.56		
1117.	20.32	29.85		
1118.	10.8	9.22		
1119.	38.1	13.03		
1120.	15.88	25.4		
1121.	11.76	14.3		
1122.	9.22	2.54		
1123.	20.32	27.31		
1124.	25.4	13.97		
1125.	7.62	2.54		
1126.	7.62	20.32		
1127.	12.7	11.91		
1128.	8.89	5.08		
1129.	8.26	29.85		
1130.	21.59	13.97		
1131.	38.74	2.54		
1132.	15.24	23.5		
1133.	42.55	2.54		
1134.	10.8	23.5		
1135.	43.18	15.24		
1136.	14.3	11.76		
1137.	44.45	3.18		
1138.	21.59	18.42		

1139.	25.4	18.11		
1140.	10.16	18.75		
1141.	13.97	20.8		
1142.		21.59		
1143.		20.02		
1144.		26.04		
1145.				

Appendix 6 : Total number of pneumatophores per 1 sq. meter of sub-plot and average length (in cm) of pneumatophores of sundri in four top dying severity classes (none, slight, moderate and severe) in the in 36 samples in the Sundarbans as collected in January 2003.

Top dying severity category	Compartment No.	Sample Plot No.	Sub-plot No.	Pneumatophore Number per sq. meter	Average Length of pneumatophore in cm
None	2	1	1	48	13.72
None	2	1	2	50	10.93
None	2	1	3	52	10.05
None	2	1	4	38	10.12
None	2	1	5	33	12.65
None	2	2	1	54	13.45
None	2	2	2	62	16.20
None	2	2	3	67	12.73
None	2	2	4	37	11.37
None	2	2	5	18	14.94
None	2	3	1	77	15.28
None	2	3	2	69	15.21
None	2	3	3	54	15.74
None	2	3	4	22	12.36
None	2	3	5	35	13.71
Slight	11	1	1	45	21.24
Slight	11	1	2	51	14.76
Slight	11	1	3	29	20.87
Slight	11	1	4	40	16.98
Slight	11	1	5	30	17.62
Slight	11	2	1	21	16.37
Slight	11	2	2	24	16.02
Slight	11	2	3	38	14.93
Slight	11	2	4	29	16.82
Slight	11	2	5	39	21.10
Slight	11	3	1	43	14.26
Slight	11	3	2	53	14.43
Slight	11	3	3	36	14.59
Slight	11	3	4	28	17.11
Slight	11	3	5	34	25.16
Moderate	19A	1	1	28	10.63
Moderate	19A	1	2	16	15.39
Moderate	19A	2	1	20	14.31
Moderate	19A	2	2	39	13.72
Moderate	19A	2	3	19	14.48
Slight	19A	3	1	156	15.31
Slight	19A	3	2	304	21.93
Slight	19A	3	3	212	28.16
Slight	19A	3	4	25	19.39
None	19B	1	1	43	24.49
None	19B	1	2	17	18.49
Slight	19B	2	1	39	9.49
Slight	19B	2	2	9	6.63
Slight	19B	2	3	13	8.08

None	19B	3	1	45	17.68
None	19B	3	2	20	17.61
None	19B	3	3	13	24.38
Slight	20	1	1	89	9.08
Slight	20	1	2	7	23.41
Slight	20	1	3	50	12.81
Slight	20	1	4	12	18.00
None	20	2	1	29	23.28
None	20	2	2	32	15.45
None	20	2	3	8	26.85
None	20	2	4	39	16.61
None	20	2	5	19	20.65
None	20	3	1	112	19.03
None	20	3	2	21	23.96
None	20	3	3	38	17.90
None	20	3	4	30	21.21
None	20	3	5	37	26.58
Severe	22	1	1	17	7.32
Severe	22	1	2	9	6.09
Severe	22	2	1	14	9.55
Moderate	22	3	1	20	11.54
Moderate	22	3	2	10	12.79
Moderate	26	1	1	6	8.52
Moderate	26	1	2	8	9.99
Slight	26	2	1	21	15.75
Slight	26	2	2	33	12.61
Moderate	26	3	1	11	14.27
Moderate	26	3	2	8	8.83
Moderate	33	1	1	24	15.51
Moderate	33	1	2	24	14.75
Moderate	33	1	3	18	15.17
Moderate	33	1	4	9	12.51
Moderate	33	1	5	16	12.88
Moderate	33	2	1	17	13.94
Moderate	33	2	2	12	21.94
Moderate	33	2	3	21	16.61
Moderate	33	2	4	21	12.57
Moderate	33	2	5	19	20.61
Severe	33	3	1	44	13.96
Severe	33	3	2	38	10.62
Severe	33	3	3	27	12.44
Severe	33	3	4	20	15.41
Severe	33	3	5	17	18.27
None	36A	1	1	14	23.21
None	36A	1	2	30	28.29
None	36A	1	3	25	25.37
None	36A	1	4	30	24.42
Moderate	36A	2	1	18	20.41
Moderate	36A	2	2	29	21.73
Moderate	36A	2	3	12	25.11
Moderate	36A	2	4	21	33.41
Slight	36A	3	1	14	19.19

Slight	36A	3	2	21	13.44
Slight	36A	3	3	27	16.42
Slight	36A	3	4	16	17.66
Severe	36B	1	1	4	16.90
Severe	36B	1	2	5	15.24
Severe	36B	1	3	11	18.35
Severe	36B	2	1	18	18.11
Severe	36B	2	2	14	23.59
Severe	36B	2	3	76	22.50
Severe	36B	2	4	42	19.66
Severe	36B	2	5	9	27.44
Severe	36B	3	1	11	20.71
Severe	37	1	1	32	17.38
Severe	37	1	2	5	15.80
Severe	37	1	3	20	22.37
Severe	37	2	1	144	20.41
Severe	37	2	2	34	21.99
Severe	37	2	3	15	30.97
Severe	37	2	4	39	22.39
Severe	37	2	5	34	20.23
Severe	37	3	1	13	24.00
Severe	37	3	2	29	14.82
Severe	37	3	3	36	19.69
Severe	37	3	4	34	21.01
Moderate	40	1	1	18	18.37
Moderate	40	1	2	25	12.74
Moderate	40	1	3	15	14.00
Moderate	40	1	4	4	22.88
Slight	40	2	1	5	21.34
Slight	40	2	2	40	19.04
Slight	40	2	3	35	17.99
None	40	3	1	244	21.41
None	40	3	2	104	29.10
None	40	3	3	188	18.81

Appendix 7 : Data on number of lenticels per sq cm at collar, middle and top of the pneumatophores of sundri in four top dying severity classes (i.e. none, slight, moderate and severe) in the in 36 samples in the Sundarbans as collected in January 2003.

Sclass	Compartment Number	Sub-plot number	Pneumatophore No.	No. of lenticels per sq. cm at collar	No. of lenticels per sq. cm at middle	No. of lenticels per sq. cm at near top
Moderate	19A	1	1	0.5	0	0
Moderate	19A	1	2	0.5	0.38	1
Moderate	19A	1	3	0.5	0.5	1
Moderate	19A	1	4	1	0.5	1
Moderate	19A	1	5	1.13	0.5	0.5
Moderate	19A	1	6	0.38	0.38	1.5
Moderate	19A	1	7	0.63	0.75	1
Moderate	19A	1	8	0.25	0.63	1.5
Moderate	19A	1	9	0.75	0.13	1
Moderate	19A	1	10	0.25	0.38	1
Moderate	19A	1	11	0.38	0.63	1
Moderate	19A	1	12	0	1.13	1.5
Moderate	19A	1	13	1	0.44	1
Moderate	19A	1	14	0.38	0.63	1
Moderate	19A	1	15	0.75	0.38	1.5
Moderate	19A	2	1	0.13	0.67	0
Moderate	19A	2	2	0.5	0.25	3.5
Moderate	19A	2	3	0.25	0.25	1
Moderate	19A	2	4	0.5	0.67	0
Moderate	19A	2	5	0	0.38	1.5
Moderate	19A	2	6	0.13	0	1.5
Moderate	19A	2	7	1.13	0.38	0
Moderate	19A	2	8	0.88	0.89	3.5
Moderate	19A	2	9	1.13	1.25	1
Moderate	19A	2	10	0.63	0.5	0
Moderate	19A	2	11	1.25	1.56	5
Moderate	19A	2	12	0.25	1.11	3.5
Moderate	19A	2	13	1.13	0.38	0.5
Moderate	19A	2	14	1.13	0.25	0.5
Moderate	19A	2	15	1	0.38	1.5
Moderate	22	3	1	1.13	0.89	1
Moderate	22	3	2	0.88	0.5	1
Moderate	22	3	3	0.75	0.5	0.5
Moderate	22	3	4	1.5	0.63	3.5
Moderate	22	3	5	1.13	0.75	0.5
Moderate	22	3	6	0.88	1	1
Moderate	22	3	7	0.88	0.13	0
Moderate	22	3	8	1.13	0.44	0
Moderate	22	3	9	0.5	0.44	0.5
Moderate	22	3	10	0.63	1.56	0.5
Moderate	22	3	11	1	0.89	1.5
Moderate	22	3	12	1.5	0.63	2
Moderate	22	3	13	0.63	1.33	1
Moderate	22	3	14	0.38	0.22	1

Moderate	22	3	15	1.56	0.63	0.5
Moderate	26	1	1	0.75	0.5	0
Moderate	26	1	2	0.88	0.5	2
Moderate	26	1	3	0.88	0.25	1.5
Moderate	26	1	4	1.13	0.38	2
Moderate	26	1	5	1	0.75	1
Moderate	26	1	6	1.5	1.13	2
Moderate	26	1	7	1.13	1	2
Moderate	26	1	8	2.38	0.5	1
Moderate	26	1	9	0.75	1.75	2.5
Moderate	26	1	10	1	0.13	1
Moderate	26	1	11	1	0.63	1
Moderate	26	1	12	0.5	0.22	2
Moderate	26	1	13	0.63	1.33	0.5
Moderate	26	1	14	1	0.38	1.5
Moderate	26	1	15	0.5	0.67	0
Moderate	26	3	1	2.5	0.75	1
Moderate	26	3	2	0.75	1.33	1
Moderate	26	3	3	1.38	0.63	0
Moderate	26	3	4	1.63	0.5	2
Moderate	26	3	5	0.5	0.67	0
Moderate	26	3	6	0.5	0.38	1
Moderate	26	3	7	1	1.11	2.5
Moderate	26	3	8	0.88	0.89	0.5
Moderate	26	3	9	0.5	1.33	0.5
Moderate	26	3	10	1.11	0	1.5
Moderate	26	3	11	0.63	0.38	0.5
Moderate	26	3	12	0.25	1.11	0
Moderate	26	3	13	1.25	0.38	0
Moderate	26	3	14	0.63	0.67	1.5
Moderate	26	3	15	1.25	0.67	4
Moderate	33	1	1	1	0.5	1
Moderate	33	1	2	0.38	0.25	2
Moderate	33	1	3	1	0.88	5
Moderate	33	1	4	0.63	0	0.5
Moderate	33	1	5	0.38	0.75	1
Moderate	33	1	6	0.75	0.38	1.5
Moderate	33	1	7	0.5	0.13	1.5
Moderate	33	1	8	1.38	0.63	0.5
Moderate	33	1	9	0.5	0.25	4.5
Moderate	33	1	10	1.38	0.88	6
Moderate	33	1	11	1.75	2.13	4.5
Moderate	33	1	12	0.63	0.38	2.5
Moderate	33	1	13	0.75	0.63	2
Moderate	33	2	1	0	0	0.5
Moderate	33	2	2	0.13	0	0.5
Moderate	33	2	3	1.25	1.88	1
Moderate	33	2	4	0.13	0.13	0
Moderate	33	2	5	0	0.13	0
Moderate	33	2	6	0.38	0.13	0
Moderate	33	2	7	0.5	0.13	0
Moderate	33	2	8	0.25	0.5	0

Moderate	33	2	9	0.25	0	0
Moderate	33	2	10	1	0.5	0
Moderate	33	2	11	0.25	0.63	0
Moderate	33	2	12	0.63	0	0
Moderate	36A	2	1	0.63	0.75	1.5
Moderate	36A	2	2	0.5	0.75	1
Moderate	36A	2	3	1.13	0.75	2
Moderate	36A	2	4	0.13	0.63	0.5
Moderate	36A	2	5	0.38	0.38	1
Moderate	36A	2	6	0.75	0.38	2.5
Moderate	36A	2	7	0.38	0.63	2
Moderate	36A	2	8	0.38	0.13	3
Moderate	36A	2	9	0.88	0.25	2
Moderate	36A	2	10	0.25	0.44	0
Moderate	36A	2	11	0.38	0.38	2.5
Moderate	36A	2	12	0.75	0.75	4.5
Moderate	36A	2	13	0.75	0.63	3.5
Moderate	40	1	1	0.5	0.88	2
Moderate	40	1	2	0.5	0.13	0.5
Moderate	40	1	3	1.13	0.75	1.5
Moderate	40	1	4	0.5	0.25	1.5
Moderate	40	1	5	1.38	0.75	2
Moderate	40	1	6	0.75	0.38	1.5
Moderate	40	1	7	1.13	0.5	1
Moderate	40	1	8	0.75	0.63	1
Moderate	40	1	9	1.13	0.38	1.5
Moderate	40	1	10	1.25	0.38	0
Moderate	40	1	11	0.5	0.5	1
Moderate	40	1	12	0.63	0.5	0.5
Moderate	40	1	13	0.25	0.89	1
Moderate	40	1	14	0.5	0.88	0
Moderate	40	1	15	0.75	0.75	1
None	2	1	1	0.63	0.22	0.5
None	2	1	2	0.63	0.63	1.5
None	2	1	3	2.13	0.38	3
None	2	1	4	1.38	0.44	0.5
None	2	1	5	1.25	0	0.5
None	2	1	6	0.75	0.22	1
None	2	1	7	0.63	1.56	3
None	2	1	8	1.38	0.67	0.5
None	2	1	9	0.88	0.5	0.5
None	2	1	10	0.88	0.13	1
None	2	1	11	0.5	0	0
None	2	1	12	1.25	0	0.5
None	2	1	13	1.38	0.13	0.5
None	2	1	14	2.25	1.33	2
None	2	1	15	1.13	0.13	2.5
None	2	2	1	2	0.75	1
None	2	2	2	1.38	0.38	1.5
None	2	2	3	1	0.5	1.5
None	2	2	4	0.75	0.13	1
None	2	2	5	1.13	0.5	1

None	2	2	6	0.75	0.75	1
None	2	2	7	0.5	0.38	1
None	2	2	8	1	0.13	1
None	2	2	9	0.5	0.44	0.5
None	2	2	10	1	0.13	1
None	2	2	11	1	1.11	0.5
None	2	2	12	1.25	0.5	3
None	2	2	13	0.25	0.38	2
None	2	2	14	0.63	0.38	1.5
None	2	2	15	0.63	0.38	1.5
None	2	3	1	0.75	0.13	0
None	2	3	2	0.25	0.13	2
None	2	3	3	0.38	0.38	2.5
None	2	3	4	0.5	0.22	1
None	2	3	5	1	0.5	0.5
None	2	3	6	0.88	0.44	1
None	2	3	7	1	0.63	0
None	2	3	8	0.75	0.22	1
None	2	3	9	0.5	0.89	1.5
None	2	3	10	0.63	0.5	3
None	2	3	11	0.88	0	0
None	2	3	12	0.75	0.25	0.5
None	2	3	13	0.75	0.67	3
None	2	3	14	1.25	0.5	1
None	2	3	15	0.88	0.38	1.5
None	19B	1	1	1	0.22	2
None	19B	1	2	1	0.38	2.5
None	19B	1	3	0.63	0.25	1.5
None	19B	1	4	0.13	1	1
None	19B	1	5	0.38	0.38	1
None	19B	1	6	0	0	1.5
None	19B	1	7	0.25	0.13	3
None	19B	1	8	0	1	2.5
None	19B	1	9	0.38	0.75	0.5
None	19B	1	10	0.63	1	3
None	19B	1	11	0.25	0.13	1.5
None	19B	1	12	1	0.88	3
None	19B	1	13	1.38	0	1.5
None	19B	1	14	0.38	1	2
None	19B	1	15	0.38	0.25	2.5
None	19B	3	1	0.13	0	0.5
None	19B	3	2	0	0.13	0.5
None	19B	3	3	0.38	0.25	1.5
None	19B	3	4	0.5	0.5	1.5
None	19B	3	5	0.63	0.5	1
None	19B	3	6	0.25	0.13	0.5
None	19B	3	7	0.25	0.5	1
None	19B	3	8	0.75	0.75	4.5
None	19B	3	9	0.13	0	1
None	19B	3	10	0.75	0.63	4.5
None	19B	3	11	0.5	0.38	0.5
None	19B	3	12	0.25	0.13	1.5

None	19B	3	13	0.25	0.63	3.5
None	19B	3	14	0.63	1.33	1.5
None	19B	3	15	0.38	0.89	1.5
None	20	2	1	0.63	0.13	1.5
None	20	2	2	0.5	0.25	0.5
None	20	2	3	0.63	1.78	2
None	20	2	4	1	0.25	1
None	20	2	5	0	0.67	0
None	20	2	6	1.5	0.44	1
None	20	2	7	0.38	0.44	1
None	20	2	8	0.38	0.25	1.5
None	20	2	9	0.5	0.89	1
None	20	2	10	1	0.38	1.5
None	20	2	11	1.25	0.38	1.5
None	20	2	12	0.75	0.5	1
None	20	2	13	0.25	0.38	0
None	20	2	14	0.25	0.5	0.5
None	20	2	15	1.13	0.67	1
None	20	3	1	0.88	1.11	1.5
None	20	3	2	0.13	0.63	0
None	20	3	3	1	0.38	3
None	20	3	4	0.25	0.38	1
None	20	3	5	0.75	0.5	1
None	20	3	6	0.63	0.38	0.5
None	20	3	7	0.63	0.38	0.5
None	20	3	8	0.38	0.5	1
None	20	3	9	0	0.38	1.5
None	20	3	10	0.5	0.63	1
None	20	3	11	0.75	0.5	1.5
None	20	3	12	0.75	1	2
None	20	3	13	0.75	0.38	0.5
None	20	3	14	1.38	0.25	1.5
None	20	3	15	0.5	0.38	2
None	33	1	1	0.63	0	0
None	33	1	2	0.25	0.13	0.5
None	33	1	3	0.38	0.5	1
None	33	1	4	0.88	0.13	1
None	33	1	5	1.88	0.63	2
None	33	1	6	2.75	3.33	2.5
None	33	1	7	1.25	1.25	1.5
None	33	1	8	0.88	0.75	0.5
None	33	1	9	0.25	0.38	1
None	33	1	10	1.25	0.25	0.5
None	33	1	11	1.13	0.75	2
None	33	1	12	0	0.13	2.5
None	40	3	1	0.63	0.63	1
None	40	3	2	0.88	0.5	2
None	40	3	3	0.5	0.38	1
None	40	3	4	0.88	0.5	1
None	40	3	5	0.63	0.25	2
None	40	3	6	1	0.88	1.5
None	40	3	7	0.5	0.5	1.5

None	40	3	8	0.63	0.67	0.5
None	40	3	9	0.38	0.25	1.5
None	40	3	10	0.88	0.75	2
None	40	3	11	0.25	1.13	1.5
None	40	3	12	1	0.88	1.5
None	40	3	13	1.13	0.5	2.5
Severe	22	1	1	1.25	0.75	0.5
Severe	22	1	2	0.88	0.63	1
Severe	22	1	3	0.63	0.75	1.5
Severe	22	1	4	1.13	0.89	1
Severe	22	1	5	1	0.75	0.5
severe	22	1	6	1.25	0.38	1.5
Severe	22	1	7	0.13	0.63	0.5
Severe	22	1	8	1.13	0.67	0.5
Severe	22	1	9	0.75	0.67	2
Severe	22	1	10	1.5	0.75	1
Severe	22	1	11	1.38	0.63	1
Severe	22	1	12	1.38	1	2
Severe	22	1	13	0.88	0.88	0.5
Severe	22	1	14	2	0.63	1.5
Severe	22	1	15	0.63	0.89	1.5
Severe	22	2	1	1.25	1.56	0.5
Severe	22	2	2	2.38	1.33	2.5
Severe	22	2	3	1.25	0.44	0
Severe	22	2	4	0.5	0.89	0.5
Severe	22	2	5	0.75	0.63	1
Severe	22	2	6	1.13	0.38	2
Severe	22	2	7	0.75	0.89	1
Severe	22	2	8	0.63	0.22	0
Severe	22	2	9	1.25	0.89	1.5
Severe	22	2	10	0.75	0.44	1
Severe	22	2	11	0.88	0.88	0.5
Severe	22	2	12	0.63	0	0
Severe	22	2	13	0.88	0.5	1
Severe	22	2	14	1	0.38	2
Severe	22	2	15	0.75	0.75	1
Severe	33	3	1	0.5	1.78	1.5
Severe	33	3	2	0.25	0.63	0
Severe	33	3	3	1.75	0.89	2
Severe	33	3	4	1.13	0.75	0.5
Severe	33	3	5	0.88	0.25	0
Severe	33	3	6	1.13	0.38	1.5
Severe	33	3	7	1.88	1.78	7.5
Severe	33	3	8	1.5	1.56	5
Severe	33	3	9	0.13	0.22	1.5
Severe	36B	1	1	0.5	0.38	0.5
Severe	36B	1	2	1	0.38	1
Severe	36B	1	3	0	0.38	1
Severe	36B	1	4	0.25	0.13	1
Severe	36B	1	5	0.5	0.38	1
Severe	36B	1	6	0.5	0.38	4.5
Severe	36B	1	7	0.25	0.67	2.5

Severe	36B	1	8	0.25	0.63	2
Severe	36B	1	9	0.25	0.25	2
Severe	36B	1	10	0.88	0.5	4.5
Severe	36B	1	11	0.63	0.75	4
Severe	36B	1	12	0.75	0.63	2
Severe	36B	1	13	0.63	0.25	2
Severe	36B	1	14	0.25	0.25	0
Severe	36B	1	15	0.63	0.13	1
Severe	36B	2	1	0	0.13	1.5
Severe	36B	2	2	0.75	0.25	3
Severe	36B	2	3	0.13	0.25	0
Severe	36B	2	4	0.5	0.25	3
Severe	36B	2	5	0	0.13	1
Severe	36B	2	6	0.5	0.63	2.5
Severe	36B	2	7	0.25	0.67	1.5
Severe	36B	2	8	0.88	0.75	2
Severe	36B	2	9	0.75	0.63	2
Severe	36B	2	10	0.5	0.67	1
Severe	36B	2	11	0	0	1
Severe	36B	2	12	0.5	0.25	1.5
Severe	36B	2	13	0.5	0.89	2
Severe	36B	2	14	0.63	0.5	1
Severe	36B	2	15	0.63	0.44	2
Severe	36B	3	1	1.5	1.33	3
Severe	36B	3	2	1.13	0.89	3
Severe	36B	3	3	1	0.25	1.5
Severe	36B	3	4	0.13	0.13	0.5
Severe	36B	3	5	0.5	0	3
Severe	36B	3	6	0.5	0.25	0.5
Severe	36B	3	7	0.38	0.67	2.5
Severe	36B	3	8	0.88	0.63	2
Severe	36B	3	9	0.25	0	1.5
Severe	36B	3	10	0.25	0.63	0.5
Severe	36B	3	11	1.5	0.88	0
Severe	36B	3	12	0.5	0.67	1.5
Severe	36B	3	13	0.5	0.44	1
Severe	36B	3	14	1.75	2	6
Severe	36B	3	15	0.38	0.5	2
Severe	37	1	1	0.25	0.38	1.5
Severe	37	1	2	0.25	0.75	3.5
Severe	37	1	3	0.25	0.25	1
Severe	37	1	4	0.63	0.5	2
Severe	37	1	5	0.38	0.38	1.5
Severe	37	1	6	0.5	0.25	2
Severe	37	1	7	0.25	0.5	0.5
Severe	37	1	8	0.25	0.5	1.5
Severe	37	1	9	0.13	0.25	1.5
Severe	37	1	10	0.38	0.25	2
Severe	37	1	11	0.38	0.63	1
Severe	37	1	12	0.13	0.63	3
Severe	37	2	1	2	0.63	0.5
Severe	37	2	2	0.88	0.5	0.5

Severe	37	2	3	0.88	0.38	0.5
Severe	37	2	4	2.38	1	1.5
Severe	37	2	5	1.5	0.88	1
Severe	37	2	6	1.38	0.38	1
Severe	37	2	7	0.88	0.88	1.5
Severe	37	2	8	0.25	0.63	1.5
Severe	37	2	9	0.5	0.38	1
Severe	37	3	1	0.63	0.5	1.5
Severe	37	3	2	0.63	0.13	1
Severe	37	3	3	1.13	0.5	2
Severe	37	3	4	1.63	0.5	1.5
Severe	37	3	5	0.63	0.38	1.5
Severe	37	3	6	0.75	0.25	1
Severe	37	3	7	1	0.63	1
Severe	37	3	8	0.63	0	2
Severe	37	3	9	0.75	0.5	2
Slight	11	1	1	0.88	0.25	0.5
Slight	11	1	2	1	0.38	2
Slight	11	1	3	0.63	0.25	1.5
Slight	11	1	4	0.5	0.67	1
Slight	11	1	5	1.38	0.67	3
Slight	11	1	6	1.25	0.75	1
Slight	11	1	7	1.25	0.89	1
Slight	11	1	8	0.75	0.67	2
Slight	11	1	9	0.63	0.44	1.5
Slight	11	1	10	0.5	1.11	2.5
Slight	11	1	11	0.88	0.38	2
Slight	11	1	12	1.25	0.5	1.5
Slight	11	1	13	1.13	0.25	1
Slight	11	1	14	0.88	0	1
Slight	11	1	15	2	0.63	0.5
Slight	11	2	1	1.5	0.63	1
Slight	11	2	2	1.5	0.63	0.5
Slight	11	2	3	1.13	0.5	1.5
Slight	11	2	4	0.75	0.75	1.5
Slight	11	2	5	1.13	0.5	2
Slight	11	2	6	0.88	0.38	1
Slight	11	2	7	1.88	0.5	0
Slight	11	2	8	1.38	0.25	2
Slight	11	2	9	1.38	0.5	1.5
Slight	11	2	10	0.5	0.25	1.5
Slight	11	2	11	0.88	0.44	2.5
Slight	11	2	12	0.88	0.89	1.5
Slight	11	2	13	1	0.5	2
Slight	11	2	14	0.75	0.89	2
Slight	11	2	15	0.63	0.63	1.5
Slight	11	3	1	0.75	0.13	1
Slight	11	3	2	0.63	0.5	2
Slight	11	3	3	1.13	1.13	2.5
Slight	11	3	4	0.88	0.5	3
Slight	11	3	5	0.5	0.13	1
Slight	11	3	6	0.75	0.75	1

Slight	11	3	7	0.38	0.44	0.5
Slight	11	3	8	0.25	0.5	1.5
Slight	11	3	9	0	0.25	1
Slight	11	3	10	0.25	0.25	4
Slight	11	3	11	0.38	0.13	1.5
Slight	11	3	12	1.25	0.38	1.5
Slight	11	3	13	0.5	0.38	0.5
Slight	11	3	14	0.63	0.38	1
Slight	11	3	15	0.88	0.5	2
Slight	19A	3	1	0.75	0.13	1.5
Slight	19A	3	2	0.5	0.75	2.5
Slight	19A	3	3	0.63	0.25	1.5
Slight	19A	3	4	1.13	0.38	1.5
Slight	19A	3	5	0.13	0.25	1
Slight	19A	3	6	0.75	0.13	1.5
Slight	19A	3	7	0.25	0.25	1.5
Slight	19A	3	8	0.13	0.25	2
Slight	19A	3	9	0.38	0.75	1.5
Slight	19A	3	10	1.38	0.38	1
Slight	19A	3	11	0.13	0.25	2.5
Slight	19A	3	12	0.13	0.25	1.5
Slight	19A	3	13	0.25	0.38	1.5
Slight	19A	3	14	0.38	0.38	1.5
Slight	19A	3	15	0.5	0.5	1
Slight	19B	2	1	0.38	0.38	1.5
Slight	19B	2	2	0.38	0.5	2
Slight	19B	2	3	0.63	0.67	2
Slight	19B	2	4	0.63	1	3
Slight	19B	2	5	0.63	1.33	2
Slight	19B	2	6	0.38	0.67	0.5
Slight	19B	2	7	0.25	1.56	2
Slight	19B	2	8	0.75	1.11	0
Slight	19B	2	9	0.5	1.11	0
Slight	19B	2	10	0.88	0.89	0
Slight	19B	2	11	0.63	0.89	0
Slight	19B	2	12	0.25	1.11	0.5
Slight	19B	2	13	0.63	0.89	1.5
Slight	19B	2	14	0.5	0.89	0.5
Slight	19B	2	15	0.5	0.67	1.5
Slight	20	1	1	1.13	1	1.5
Slight	20	1	2	1.25	0.5	1
Slight	20	1	3	1	0.38	2.5
Slight	20	1	4	1.25	0.88	1.5
Slight	20	1	5	0.88	0.67	2
Slight	20	1	6	1.5	1.11	1.5
Slight	20	1	7	2.38	0.88	4
Slight	20	1	8	1	1	3
Slight	20	1	9	1	0.22	1.5
Slight	20	1	10	1.38	0.44	0
Slight	20	1	11	0.63	0.38	1.5
Slight	20	1	12	0.5	0.63	2.5
Slight	20	1	13	0.38	0	1

Slight	20	1	14	1.38	1.25	1
Slight	20	1	15	0.5	0.5	1.5
Slight	26	2	1	1	0.13	0.5
Slight	26	2	2	0.75	0.75	1.5
Slight	26	2	3	0.38	0.5	2
Slight	26	2	4	0.88	1.11	2
Slight	26	2	5	1.25	0.5	1
Slight	26	2	6	0.5	0.22	3
Slight	26	2	7	0.63	0.13	1
Slight	26	2	8	0.5	0	0.5
Slight	26	2	9	0.88	0.67	1.5
Slight	26	2	10	0.13	0.25	0
Slight	26	2	11	1.25	0.5	1
Slight	26	2	12	0.88	0.44	1
Slight	26	2	13	1	0.25	1
Slight	26	2	14	0.38	0.67	0
Slight	26	2	15	0.63	0.25	1.5
Slight	36A	3	1	0.25	0.38	0.5
Slight	36A	3	2	0.25	0.38	0
Slight	36A	3	3	0.38	0.38	0.5
Slight	36A	3	4	0.88	0.75	1
Slight	36A	3	5	0.38	0.5	0.5
Slight	36A	3	6	1.5	0.25	2
Slight	36A	3	7	0.88	0.75	2
Slight	36A	3	8	0.38	0.38	0.5
Slight	36A	3	9	0.63	0.5	1
Slight	36A	3	10	0.75	0.25	0.5
Slight	36A	3	11	0.75	0.38	1
Slight	36A	3	12	0.5	0.44	2.5
Slight	36A	3	13	0.25	0.5	0.5
Slight	40	2	1	2	0.13	0.5
Slight	40	2	2	1.5	0.88	0.5
Slight	40	2	3	0.25	0.38	3
Slight	40	2	4	1.38	1.13	1.5
Slight	40	2	5	1.25	0.63	0.5
Slight	40	2	6	0.25	0.63	0.5
Slight	40	2	7	1	1.25	1.5
Slight	40	2	8	0.38	0	0.5
Slight	40	2	9	0.38	0.5	0.5
Slight	40	2	10	1.38	0.25	1
Slight	40	2	11	0.38	0.5	1
Slight	40	2	12	0.5	1.5	1.5
Slight	40	2	13	0.75	0.5	0.5
Slight	40	2	14	0.88	0.38	0.5
Slight	40	2	15	1	0.88	1.5

Appendix 8 : Data of sedimentation (i.e. sediment deposition and erosion) around 157 sediment gauges established in 36 sample plots at 12 landings in 10 compartments falling in severe, moderate, slight and none (i.e. no) top dying of sundri as recorded in January 2002 and January 2003 in the Sundarbans.

Sclass	Compartment	Sample Plot No.	Sitration Gauge No.	Height (in cm) of sediment gauge above soil in January 2002	Height (in cm) of sediment gauge above soil in January 2003	Sedimentation (sediment deposition = + values; and erosion = minus values) in cm
Moderate	26	3	14	57	66	-9.00
Moderate	22	3	13	58	60.5	-2.50
Moderate	22	3	12	61	64	-3.00
Moderate	22	3	11	61.3	63.8	-2.50
Moderate	26	1	13	62	60.5	+1.50
Moderate	26	3	15	63.5	60	+3.50
Moderate	26	1	11	64	62.2	+1.80
Moderate	26	1	12	64	63.8	+0.20
Moderate	26	1	14	64	63	+1.00
Moderate	26	3	11	64	53.5	+10.50
Moderate	26	3	13	66.3	62.5	+3.80
Moderate	26	3	12	69	62	+7.00
Moderate	40	1	12	70	67.8	+2.20
Moderate	36A	2	14	71	71.4	-0.40
Moderate	33	1	14	73.2	70.3	+2.90
Moderate	36A	2	12	74.5	76	-1.50
Moderate	40	1	11	74.5	70	+4.50
Moderate	36A	2	13	75	75	-0.00
Moderate	22	3	14	76	75.3	+0.70
Moderate	36A	2	11	77	79	-2.00
Moderate	36A	2	15	78	77	+1.00
Moderate	40	1	15	80	81.6	-1.60
Moderate	19A	2	12	80.2	88.3	-8.10
Moderate	19A	2	11	80.4	83	-2.60
Moderate	33	1	11	81	77.9	+3.10
Moderate	19A	1	12	82.4	83	-0.60
Moderate	22	3	15	83	68.8	+14.20
Moderate	40	1	14	85.2	78.2	+7.00
Moderate	19A	2	13	86.5	83.2	+3.30
Moderate	19A	2	14	86.5	85.8	+0.70
Moderate	40	1	13	88.1	83.5	+4.60
Moderate	19A	1	11	89	78	+11.00
Moderate	33	1	15	89	87.5	+1.50
Moderate	19A	1	13	89.8	50.9	+38.90
Moderate	33	1	13	91	87.5	+3.50
Moderate	33	1	12	92	89.8	+2.20
None	2	2	13	57	57	-0.00
None	2	2	12	59	59.6	-0.60
None	20	3	11	60.2	63	-2.80
None	20	3	15	60.2	62.4	-2.20
None	20	2	13	62	62.8	-0.80

None	2	3	13	64	64.5	-0.50
None	2	2	11	67	72	-5.00
None	2	2	15	67	69.2	-2.20
None	20	3	13	70.2	73.6	-3.40
None	36A	1	11	72	72.3	-0.30
None	2	2	14	73	70	+3.00
None	20	2	15	73.8	75	-1.20
None	20	2	12	74	75	-1.00
None	20	3	12	74	71.2	+2.80
None	20	2	14	74.2	76	-1.80
None	40	3	11	76	82	-6.00
None	40	3	15	78.2	76	+2.20
None	36A	1	13	78.3	78.5	-0.20
None	36A	1	15	78.7	86.5	-7.80
None	19B	1	12	79.6	83.5	-3.90
None	2	3	12	80	79.8	+0.20
None	19B	1	11	80.5	82.5	-2.00
None	19B	1	14	80.5	80	+0.50
None	19B	1	15	81.4	91.8	-10.40
None	19B	3	11	83	80.2	+2.80
None	20	2	11	83.5	83	+0.50
None	40	3	12	84	79	+5.00
None	2	3	14	85	85.5	-0.50
None	19B	2	11	87.2	87.5	-0.30
None	36A	1	14	87.5	88	-0.50
None	2	3	15	88	91	-3.00
None	19B	1	13	89.5	87	+2.50
None	36A	1	12	95.6	93.7	+1.90
None	40	3	13	96.8	99.5	-2.70
None	2	3	11	98	101	-3.00
None	20	3	14	98	95.5	+2.50
Severe	36B	2	12	101	97.5	+3.50
Severe	37	2	13	116	115.5	+0.50
Severe	22	2	13	44	59.5	-15.50
Severe	22	1	13	48	44.7	+3.30
Severe	22	2	15	54.6	63.4	-8.80
Severe	22	2	11	59	52.8	+6.20
Severe	36B	3	11	61.8	60.2	+1.60
Severe	33	3	13	64.26	62.5	+1.76
Severe	22	1	15	66.3	62.4	+3.90
Severe	22	2	14	66.5	64	+2.50
Severe	36B	1	15	67	87.5	-20.50
Severe	36B	3	14	67.5	68	-0.50
Severe	37	2	15	69.9	71.5	-1.60
Severe	22	1	11	70.2	65.3	+4.90
Severe	36B	1	12	70.6	70.8	-0.20
Severe	33	3	14	72.74	75.2	-2.46
Severe	22	1	14	73	70	+3.00
Severe	33	3	12	73.66	71.2	+2.46
Severe	37	2	12	75.3	74.7	+0.60
Severe	22	2	12	77	75	+2.00
Severe	33	3	15	77.47	72.1	+5.37

Severe	36B	2	14	77.8	78.6	-0.80
Severe	37	3	15	78	90.5	-12.50
Severe	36B	1	11	79.3	88.7	-9.40
Severe	37	1	14	79.5	75.8	+3.70
Severe	22	1	12	80	75.5	-4.50
Severe	37	1	12	81	81.5	-0.50
Severe	37	3	11	82.2	79.2	+3.00
Severe	36B	1	13	83.2	81	+2.20
Severe	37	1	15	83.5	82	+1.50
Severe	36B	1	14	89	93.6	-4.60
Severe	37	3	13	90.5	100.2	-9.70
Severe	37	3	12	90.8	73.2	+17.60
Severe	37	3	14	90.8	84.3	+6.50
Severe	37	1	13	91.1	90	+1.10
Severe	36B	3	13	92	71.5	+20.50
Severe	37	2	14	92.1	95.5	-3.40
Severe	37	2	11	94	93	+1.00
Severe	36B	2	15	97.2	82.4	+14.80
Severe	36B	3	12	98.5	81.2	+17.30
Severe	36B	2	11	99	75	+24.00
Severe	37	1	11	99.9	98	+1.90
Severe	33	3	11	99.94	88.8	+11.14
Slight	26	2	14	54	52	+2.00
Slight	11	3	11	55	65.7	-10.70
Slight	11	3	13	55	63.5	-8.50
Slight	11	3	15	55	69	-14.00
Slight	26	2	15	57	56.5	+0.50
Slight	20	1	15	57.8	60.5	-2.70
Slight	11	3	14	60	67.3	-7.30
Slight	26	2	12	60	55.7	+4.30
Slight	11	1	12	61	60.5	+0.50
Slight	11	2	14	61	70.5	-9.50
Slight	11	1	11	62	61	+1.00
Slight	11	3	12	62	70.6	-8.60
Slight	20	1	13	62.5	64	-1.50
Slight	26	2	11	63	63	-0.00
Slight	11	1	11	64.5	66	-1.50
Slight	11	2	12	65	62.6	+2.40
Slight	36A	3	15	65	63.9	+1.10
Slight	26	2	13	65.5	61	+4.50
Slight	36A	3	13	66	66.5	-0.50
Slight	11	2	11	68	70.3	-2.30
Slight	36A	3	11	68	69.6	-1.60
Slight	36A	3	14	70	71	-1.00
Slight	19A	3	15	73	72.5	+0.50
Slight	36A	3	12	73.5	73	+0.50
Slight	11	2	15	74	77	-3.00
Slight	11	1	13	75	80.4	-5.40
Slight	11	1	15	75	78	-3.00
Slight	11	2	13	75	78.2	-3.20
Slight	40	2	12	75.5	74.7	+0.80
Slight	40	2	11	76.5	79.7	-3.20

Slight	20	1	12	78	75.4	+2.60
Slight	19A	3	12	78.8	88	-9.20
Slight	19B	2	14	81.1	81.8	-0.70
Slight	40	2	14	81.5	93	-11.50
Slight	19B	2	12	82	84.6	-2.60
Slight	19A	3	13	84.8	77.5	+7.30
Slight	19A	3	11	87.5	85.5	+2.00
Slight	40	2	15	93	93	-0.00
Slight	20	1	11	94	94	-0.00
Slight	40	2	13	94.5	77.6	+16.90
Slight	19B	2	13	96	94.6	+1.40
Slight	19B	2	13	98	101.5	-3.50

Appendix 9: Analysis of variance of the data of number of pneumatophores collected in October 2001 from 150 sub-plots each 1 sq. m and falling in four top dying severity sample plots (.e. none, slight, moderate and severe) at 12 landings in 10 compartments in the Sundarbans.

A) Variance analysis

SUMMARY

Groups	*Count*	*Sum*	*Average*	*Variance*		
None	45	1764	39.20	1457.8		
Slight	40	1462	36.55	1035.946		
Moderate	30	460	15.33	189.1264		
Severe	35	524	14.97	194.0286		
ANOVA						
Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Between Groups	19322.6	3	6440.865	8.063042	5.24E-05	2.666575
Within Groups	116626.7	146	798.8133			
Total	135949.3	149				

B) DMRT to compare the means

Severe	Moderate	Slight	None
14.97	15.33	36.55	39.20
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Notes: Means underscored by the same dotted line are not significantly different.

Appendix 10: Analysis of variance of the data of mean length of pneumatophores in cm collected in October 2001 from 36 sample -plots falling in four top dying severity sample plots (.e. none, slight, moderate and severe) at 12 landings in 10 compartments in the Sundarbans.

1) Dependent Variable: MEANPNEL (i.e. mean length of pneumatophores in cm)

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	67.85111111	22.61703704	1.35	0.2744
Error	32	534.45777778	16.70180556		
Corrected Total	35	602.30888889			

R-Square	C.V.	Root MSE	MEANPNEL Mean
0.112652	25.61355	4.08678426	15.95555556

Source	DF	Type I SS	Mean Square	F Value	Pr > F
SCLASS	3	67.85111111	22.61703704	1.35	0.2744

Source	DF	Type III SS	Mean Square	F Value	Pr > F
SCLASS	3	67.85111111	22.61703704	1.35	0.2744

Parameter		Estimate	T for H0: Parameter=0	Pr > |T|	Std Error of Estimate
INTERCEPT		17.01111111 B	12.49	0.0001	1.36226142
SCLASS	Moderate	-3.31111111 B	-1.72	0.0953	1.92652857

None	-1.01111111 B	-0.52	0.6033	1.92652857
Severe	0.10000000 B	0.05	0.9589	1.92652857
Slight	0.00000000 B	.	.	.

NOTE: The X'X matrix has been found to be singular and a generalized inverse was used to solve the normal equations. Estimates followed by the letter 'B' are biased, and are not unique estimators of the parameters.

Appendix 11: Analysis of variance of the data of number of pneumatophores, average length of pneumatophores and average number of lenticels per sq. cm at collar, middle and top of the pneumatophores of sundri in four top dying severity classes (i.e. none, slight, moderate and severe) in the in 36 samples in the Sundarbans as collected in January 2002 by using a programme of the SAS System.

General Linear Models Procedure
Class Level Information
Class Levels Values
SCLASS 4 Moderate None Severe Slight

Pneumatophore number, length and lenticells numbers of 2nd trip in January 2002

1) Dependent Variable: PNEUTONO (i.e Number of pneumatophores)

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	2793.11691919	931.03897306	7.53	0.0001
Error	161	19914.7861111	123.69432367		
Corrected Total	164	22707.90303030			

R-Square	C.V.	Root MSE	PNEUTONO Mean
0.123002	48.30472	11.12179498	23.02424242

Source	DF	Type I SS	Mean Square	F Value	Pr > F
SCLASS	3	2793.11691919	931.03897306	7.53	0.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
SCLASS	3	2793.11691919	931.03897306	7.53	0.0001

Parameter		Estimate	T for H0: Parameter=0	Pr > |T|	Std Error of Estimate
INTERCEPT		27.30000000 B	15.52	0.0001	1.75851019
SCLASS	Moderate	-7.55000000 B	-3.04	0.0028	2.48690896
	None	-0.12500000 B	-0.05	0.9600	2.48690896
	Severe	-8.85555556 B	-3.66	0.0003	2.41684109
	Slight	0.00000000 B	.	.	.

NOTE: The X'X matrix has been found to be singular and a generalized inverse was used to solve the normal equations. Estimates followed by the letter 'B' are biased, and are not unique estimators of the parameters.

2) Dependent Variable: PNEULENG (i.e. Length of pneumatophores in cm)

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	678.21874537	226.07291512	5.98	0.0007
Error	161	6083.89892643	37.78819209		

Corrected Total	164	6762.11767179			
	R-Square	C.V.	Root MSE	PNEULENG Mean	
	0.100297	37.22843	6.14721011	16.51213939	

Source	DF	Type I SS	Mean Square	F Value	Pr > F
SCLASS	3	678.21874537	226.07291512	5.98	0.0007
Source	DF	Type III SS	Mean Square	F Value	Pr > F
SCLASS	3	678.21874537	226.07291512	5.98	0.0007

Parameter		Estimate	T for H0: Parameter=0	Pr > |T|	Std Error of Estimate
INTERCEPT		16.88862500 B	17.38	0.0001	0.97195926
SCLASS	Moderate	-3.54185000 B	-2.58	0.0109	1.37455797
	None	2.22402500 B	1.62	0.1076	1.37455797
	Severe	-0.20904722 B	-0.16	0.8758	1.33583023
	Slight	0.00000000 B	.	.	.

NOTE: The X'X matrix has been found to be singular and a generalized inverse was used to solve the normal equations. Estimates followed by the letter 'B' are biased, and are not unique estimators of the parameters.

3) Dependent Variable: LENCOLLA (i.e Number of lenticells in 1 square centimeter area near collar of pneumatophore)

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	10.73562645	3.57854215	7.47	0.0001
Error	146	69.93920990	0.47903568		
Corrected Total	149	80.67483635			
	R-Square	C.V.	Root MSE	LENCOLLA Mean	
	0.133073	28.01768	0.69212404	2.47031133	

Source	DF	Type I SS	Mean Square	F Value	Pr > F
SCLASS	3	10.73562645	3.57854215	7.47	0.0001
Source	DF	Type III SS	Mean Square	F Value	Pr > F
SCLASS	3	10.73562645	3.57854215	7.47	0.0001

Parameter	Estimate	T for H0: Parameter=0	Pr > |T|	Std Error of Estimate
INTERCEPT	2.464200000 B	21.06	0.0001	0.11699032

SCLASS	Moderate	0.440534286 B	2.66	0.0086	0.16544929
	None	-0.035628571 B	-0.22	0.8298	0.16544929
	Severe	-0.294555556 B	-1.89	0.0610	0.15598709
	Slight	0.000000000 B	.	.	.

NOTE: The X'X matrix has been found to be singular and a generalized inverse was used to solve the normal equations. Estimates followed by the letter 'B' are biased, and are not unique estimators of the parameters.

4) Dependent Variable: LENMIDLE (i.e Number of lenticells in 1 square centimeter area at middle of pneumatophore)

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	14710.25610420	4903.41870140	1.08	0.3605
Error	161	732997.80322825	4552.78133651		
Corrected Total	164	747708.05933245			

R-Square	C.V.	Root MSE	LENMIDLE Mean
0.019674	389.8243	67.47430167	17.30890303

Source	DF	Type I SS	Mean Square	F Value	Pr > F
SCLASS	3	14710.25610420	4903.41870140	1.08	0.3605

Source	DF	Type III SS	Mean Square	F Value	Pr > F
SCLASS	3	14710.25610420	4903.41870140	1.08	0.3605

Parameter		Estimate	T for H0: Parameter=0	Pr > |T|	Std Error of Estimate
INTERCEPT		22.79585000 B	2.14	0.0341	10.66862384
SCLASS	Moderate	0.69585000 B	0.05	0.9633	15.08771253
	None	0.18340000 B	0.01	0.9903	15.08771253
	Severe	-20.90036111 B	-1.43	0.1560	14.66262099
	Slight	0.00000000 B	.	.	.

NOTE: The X'X matrix has been found to be singular and a generalized inverse was used to solve the normal equations. Estimates followed by the letter 'B' are biased, and are not unique estimators of the parameters.

5) Dependent Variable: LENTOP (i.e Number of lenticells in 1 square centimeter area near top of pneumatophore)

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	1.42555072	0.47518357	0.71	0.5484
Error	161	108.01328801	0.67088999		

Corrected Total	164	109.43883873			
	R-Square	C.V.	Root MSE	LENTOP Mean	
	0.013026	38.50370	0.81907874	2.12727273	

Source	DF	Type I SS	Mean Square	F Value	Pr > F
SCLASS	3	1.42555072	0.47518357	0.71	0.5484
Source	DF	Type III SS	Mean Square	F Value	Pr > F
SCLASS	3	1.42555072	0.47518357	0.71	0.5484

Parameter		Estimate	T for H0: Parameter=0	Pr > |T|	Std Error of Estimate
INTERCEPT		2.225050000 B	17.18	0.0001	0.12950772
SCLASS	Moderate	-0.016700000 B	-0.09	0.9275	0.18315157
	None	-0.133400000 B	-0.73	0.4675	0.18315157
	Severe	-0.225094444 B	-1.26	0.2078	0.17799134
	Slight	0.000000000 B	.	.	.

NOTE: The X'X matrix has been found to be singular and a generalized inverse was used to solve the normal equations. Estimates followed by the letter 'B' are biased, and are not unique estimators of the parameters.

Appendix 12 : Analysis of variance of the data of mean number pneumatophores from 1 sq m area of each of 80 sub-plots from 36 sample plots at 12 landings in 10 compartments falling in severe, moderate, slight and none (i.e. no) top dying of sundri in the Sundarbans as recorded in June 2002.

SUMMARY					PneuNo.	Jun-02
Groups	*Count*	*Sum*	*Average*	*Variance*		
None	21	1659	79.00	2367.4		
Slight	21	1386	66.00	1345.5		
Moderate	18	455	25.28	91.03595		
Severe	20	552	27.60	420.4632		
ANOVA						
Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Between Groups	44039.79	3	14679.93	13.31443	4.52E-07	2.724946
Within Groups	83794.41	76	1102.558			
Total	127834.2	79				

Appendix 13 : Analysis of variance of the data of length of 3226 pneumatophores from 1 sq m area of each of 180 sub-plots from 36 sample plots at 12 landings in 10 compartments falling in severe, moderate, slight and none (i.e. no) top dying of sundri in the Sundarbans as recorded in June 2002.

SUMMARY						
Groups	*Count*	*Sum*	*Average*	*Variance*		
None	1141	17004.52	14.90	65.74725		

Slight	1144	16194.96	14.16	49.26764		
Moderate	457	6815.65	14.91	67.74054		
Severe	484	8964.3	18.52	69.16869		
ANOVA						
Source of Variation	SS	df	MS	F	P-value	F crit
Between Groups	6721.784	3	2240.595	36.91495	1.89E-23	2.607663
Within Groups	195562.9	3222	60.69613			
Total	202284.7	3225				

Appendix 14: Analysis of variance of the data of mean no. of lenticels each of 1 sq cm area from near collar, at middle and near top of 505 pneumatophores of sundri collected from 80 sub-sample plots in 36 sample plots from 12 landings in 10 compartments falling in severe, moderate, slight and none (i.e. no) top dying of sundri in the Sundarbans as recorded in June 2002.

A) Lenticells from collar of pneumatophores						
SUMMARY						
Groups	*Count*	*Sum*	*Average*	*Variance*		
None	21	26.93	1.28	0.557319		
Slight	21	26.05	1.24	0.210605		
Moderate	18	17.04	0.95	0.257294		
Severe	20	13.44	0.67	0.083185		
ANOVA						
Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Between Groups	4.942159	3	1.647386	5.874414	0.00116	2.724946
Within Groups	21.313	76	0.280434			
Total	26.25516	79				
B) Lenticells from middle of pneumatophores						
SUMMARY					Lenmiddl	Jun-02
Groups	*Count*	*Sum*	*Average*	*Variance*		
None	21	23.34	1.11	0.406853		
Slight	21	26.02	1.24	0.377909		
Moderate	18	20	1.11	0.12114		
Severe	20	15.35	0.77	0.169736		
ANOVA						
Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Between Groups	2.486808	3	0.828936	3.002877	0.035611	2.724946
Within Groups	20.97959	76	0.276047			
Total	23.4664	79				
C) Lenticells from top of pneumatophores						
SUMMARY					Lentop	Jun-02
Groups	*Count*	*Sum*	*Average*	*Variance*		
None	21	33	1.57	0.582143		
Slight	21	33.5	1.60	0.615476		
Moderate	18	23.5	1.31	0.41585		
Severe	20	25	1.25	0.592105		
ANOVA						
Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Between Groups	1.915675	3	0.638558	1.148056	0.335262	2.724946
Within Groups	42.27183	76	0.556208			
Total	44.1875	79				

Appendix 15: Analysis of variance of the data of pneumatophore number and length of pneumatophores from 1 sq m area of each of 130 sub-plots from 36 sample plots at 12 landings in 10 compartments falling in severe, moderate, slight and none (i.e. no) top dying of sundri in the Sundarbans as recorded in January 2003.

A) Pneumatophore number data

SUMMARY

Groups	*Count*	*Sum*	*Average*	*Variance*			
None	37	1854	50.11	2193.21			
Slight	35	1668	47.66	3585.291			
Moderate	29	508	17.52	58.47291			
Severe	29	811	27.97	743.3202			
ANOVA							
Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*	
Between Groups	23699.95	3	7899.983	4.457557	0.005187	2.676529	
Within Groups	223305.7	126	1772.267				
Total	247005.6	129					

B) Pneumatophore length data

SUMMARY

Groups	*Count*	*Sum*	*Average*	*Variance*			
None	37	683.24	18.47	29.97987			
Slight	35	587.99	16.80	21.5383			
Moderate	29	459.61	15.85	29.24499			
Severe	29	527.22	18.18	31.82399			
ANOVA							
Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*	
Between Groups	141.9737	3	47.32455	1.693278	0.171816	2.676529	
Within Groups	3521.509	126	27.94848				
Total	3663.482	129					

Appendix 16 : Analysis of variance using the SAS System of the data of lenticels from 1 sq cm area of each of near collar, at middle and near top of 505 pneumatophores of sundri collected from 180 sub-sample plots in 36 sample plots from 12 landings in 10 compartments falling in severe, moderate, slight and none (i.e. no) top dying of sundri in the Sundarbans as recorded in January 2003.

General Linear Models Procedure

Class Level Information

Class	Levels	Values
SCLASS	4	Moderate None Severe Slight

Number of observations in data set = 505

1) Dependent Variable: LENBOTT (i.e. Lenticels at near the collar of pneumatophores)

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	0.12817564	0.04272521	0.20	0.8986

Error	501	108.80706911	0.21717978	
Corrected Total	504	108.93524475		

R-Square	C.V.	Root MSE	LENBOTT Mean
0.001177	61.27444	0.46602551	0.76055446

Source	DF	Type I SS	Mean Square	F Value	Pr > F
SCLASS	3	0.12817564	0.04272521	0.20	0.8986

Source	DF	Type III SS	Mean Square	F Value	Pr > F
SCLASS	3	0.12817564	0.04272521	0.20	0.8986

Parameter		Estimate	T for H0: Parameter=0	Pr > |T|	Std Error of Estimate
INTERCEPT		0.7807518797 B	19.32	0.0001	0.04040954
SCLASS	Moderate	-.0194237547 B	-0.34	0.7365	0.05770310
	None	-.0439057259 B	-0.76	0.4453	0.05747647
	Severe	-.0175939850 B	-0.30	0.7675	0.05948123
	Slight	0.0000000000 B	.	.	.

NOTE: The X'X matrix has been found to be singular and a generalized inverse was used to solve the normal equations. Estimates followed by the letter 'B' are biased, and are not unique estimators of the parameters.

2) Dependent Variable: LENMIDD (i.e. lenticels at near the middle of pneumatophores)

Dependent Variable: LENMIDD

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	0.56516547	0.18838849	1.31	0.2690
Error	501	71.81613948	0.14334559		
Corrected Total	504	72.38130495			

R-Square	C.V.	Root MSE	LENMIDD Mean
0.007808	68.71450	0.37861007	0.55099010

Source	DF	Type I SS	Mean Square	F Value	Pr > F
SCLASS	3	0.56516547	0.18838849	1.31	0.2690

Source	DF	Type III SS	Mean Square	F Value	Pr > F
SCLASS	3	0.56516547	0.18838849	1.31	0.2690

Parameter	Estimate	T for H0: Parameter=0	Pr > |T|	Std Error of Estimate
INTERCEPT	0.5486466165 B	16.71	0.0001	0.03282966

SCLASS	Moderate	0.0369783835 B	0.79	0.4306	0.04687935
	None	-.0495696935 B	-1.06	0.2889	0.04669523
	Severe	0.0253884712 B	0.53	0.5996	0.04832395
	Slight	0.0000000000 B	.	.	.

NOTE: The X'X matrix has been found to be singular and a generalized inverse was used to solve the normal equations. Estimates followed by the letter 'B' are biased, and are not unique estimators of the parameters.

3) Dependent Variable: LENTOP (i.e. Lenticels at near the top of pneumatophores)

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	4.35843618	1.45281206	1.35	0.2559
Error	501	537.24849451	1.07235228		
Corrected Total	504	541.60693069			

R-Square	C.V.	Root MSE	LENTOP Mean
0.008047	74.86757	1.03554444	1.38316832

Source	DF	Type I SS	Mean Square	F Value	Pr > F
SCLASS	3	4.35843618	1.45281206	1.35	0.2559

Source	DF	Type III SS	Mean Square	F Value	Pr > F
SCLASS	3	4.35843618	1.45281206	1.35	0.2559

Parameter		Estimate	T for H0: Parameter=0	Pr > |T|	Std Error of Estimate
INTERCEPT		1.349624060 B	15.03	0.0001	0.08979309
SCLASS	Moderate	-0.056655310 B	-0.44	0.6588	0.12822071
	None	0.011914401 B	0.09	0.9257	0.12771712
	Severe	0.198621554 B	1.50	0.1335	0.13217185
	Slight	0.000000000 B	.	.	.

NOTE: The X'X matrix has been found to be singular and a generalized inverse was used to solve the normal equations. Estimates followed by the letter 'B' are biased, and are not unique estimators of the parameters.

Appendix 17: Data of regeneration of R1, R2 and R3 types of different mangrove species as recorded in October 2001 from 27 sub-plots (each 4 sq meter) from 9 sample plots from each of severe, moderate, slight and none (i.e. no) top dying of sundri from 12 landings in 10 compartments in the Sundarbans.

OBS	SCLASS	SR1	SR2	SR3	GR1	GR2	GR3	GOR1	GOR2	GOR3	AR1	AR2	AR3	SIR1	SIR2	SIR3	PR1	PR2	PR3
1	Severe	0	0	0	15	1	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Severe	0	0	0	0	0	0	0	0	0	3	1	1	0	0	0	0	0	0
3	Severe	0	0	0	1	2	1	0	0	0	0	0	0	0	0	0	2	0	0
4	Severe	1	0	0	10	1	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Severe	1	0	0	0	2	0	0	0	0	0	0	1	0	0	0	0	0	0
6	Severe	0	0	0	0	2	0	0	0	0	0	0	1	0	0	0	1	0	0
7	Severe	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
8	Severe	2	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
9	Severe	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
10	Severe	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	Severe	60	8	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
12	Severe	23	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
13	Severe	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	1	0	0
14	Severe	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0
15	Severe	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
16	Severe	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	.
17	Severe	0	0	0	1	0	11	0	0	0	1	0	0	0	0	0	0	0	0
18	Severe	22	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	Severe	21	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
20	Severe	13	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	Severe	67	3	4	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
22	Severe	41	1	7	0	0	0	0	0	0	4	1	0	0	0	0	0	0	0
23	Severe	16	3	7	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
24	Severe	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
25	Severe	0	0	0	0	0	0	0	0	0	2	0	1	0	0	0	1	0	0
26	Severe	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
27	Moderate	39	5	10	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0
28	Moderate	2	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0
29	Moderate	17	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	Moderate	31	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
31	Moderate	0	0	0	9	0	0	1	0	0	0	0	0	0	0	0	0	0	0
32	Moderate	3	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	Moderate	1	0	2	0	0	0	0	0	0	1	1	4	0	0	0	0	0	0
34	Moderate	50	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
35	Moderate	14	0	1	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0
36	Moderate	20	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37	Moderate	15	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38	Moderate	10	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39	Moderate	22	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
40	Moderate	40	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
41	Moderate	50	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
42	Moderate	12	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
43	Moderate	16	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44	Moderate	9	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45	Moderate	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46	Moderate	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
47	Moderate	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48	Moderate	11	2	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
49	Moderate	11	3	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
50	Moderate	21	10	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0

OBS	SCLASS	SR1	SR2	SR3	GR1	GR2	GR3	GOR1	GOR2	GOR3	AR1	AR2	AR3	SIR1	SIR2	SIR3	PR1	PR2	PR3
51	Moderate	1	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
52	Moderate	5	0	0	10	0	0	0	0	0	4	0	0	0	0	0	0	0	0
53	Moderate	8	0	0	12	0	0	0	0	0	1	0	0	0	0	0	0	0	0
54	Slight	11	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55	Slight	19	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
56	Slight	17	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0
57	Slight	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58	Slight	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59	Slight	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60	Slight	90	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0
61	Slight	42	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
62	Slight	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63	Slight	15	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
64	Slight	8	0	0	12	0	0	0	0	0	1	0	0	0	0	0	0	0	0
65	Slight	6	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0
66	Slight	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67	Slight	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68	Slight	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69	Slight	4	0	0	1	0	0	0	0	0	0	2	0	0	0	0	0	0	0
70	Slight	5	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0
71	Slight	6	0	0	2	0	0	0	0	0	3	0	0	0	0	0	0	0	0
72	Slight	2	0	0	0	3	9	0	0	0	0	0	0	0	0	0	0	0	0
73	Slight	3	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0
74	Slight	0	0	0	1	0	4	0	0	0	0	0	0	0	0	0	0	0	0
75	Slight	9	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76	Slight	8	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
77	Slight	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78	Slight	36	0	1	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0
79	Slight	38	1	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0
80	Slight	40	0	0	2	1	0	0	0	0	2	0	0	0	0	0	0	0	0
81	None	12	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0
82	None	10	0	0	0	0	0	1	0	0	3	0	0	0	0	0	0	0	0
83	None	14	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
84	None	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
85	None	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
86	None	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87	None	7	0	0	0	0	0	0	0	0	3	2	0	0	0	0	0	0	0
88	None	6	0	1	0	0	0	0	0	0	4	2	0	0	0	0	0	0	0
89	None	2	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
90	None	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0
91	None	0	0	0	32	4	0	2	0	0	0	0	0	0	0	0	0	0	0
92	None	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
93	None	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
94	None	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
95	None	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96	None	14	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
97	None	20	0	0	0	0	0	0	0	0	2	0	0	3	0	0	0	0	0
98	None	22	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0
99	None	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100	None	28	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0

OBS	SCLASS	SR1	SR2	SR3	GR1	GR2	GR3	GOR1	GOR2	GOR3	AR1	AR2	AR3	SIR1	SIR2	SIR3	PR1	PR2	PR3
101	None	21	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
102	None	17	1	1	0	0	0	0	0	0	2	1	4	0	0	0	0	0	0
103	None	5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
104	None	3	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
105	None	25	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0
106	None	22	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0
107	None	21	0	0	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0

Notes: Sclass means four top dying severity classes i.e. severe, moderate, slight and none; SR1 = Sundri of regeneration type R1 (i.e. seedlings less than 1.3 m in height); SR2 = sundri regeneration type R2 (i.e. seedling greater than 1.3 m in height but less than 2.5 cm in d.b.h.);SR3 = sundri regeneration type R3 (i.e. seedling greater than 1.3 m in height and d.b.h is higher than 2.35 cm). Similarly GR1, GR2 and GR3 refer to Gewa seedlings of R1, R2 and R3 types; GoR1, GoR2 and Go3 refer to Goran seedlings R1, R2 and R3 types; AR1, AR2 and AR3 refer to Amur seedlings of R1, R2 and R3 types; SiR1and SiR2 refer to Singra seedlings of R1and R2 types; PR1, PR2 and PR3 refer to Passur seedlings of R1, R2 and R3 types.

Appendix 18: Data of regeneration of R1, R2 and R3 types of different mangrove species as recorded in June 2002 from 44 sub-plots (each 4 sq meter) from 9 sample plots from each of severe, moderate, slight and none (i.e. no) top dying of sundri from 12 landings in 10 compartments in the Sundarbans

OBS	CLASS	COMP	SPOT	SUR1	SUR2	SUR3	GER1	GER2	GER3	GOR1	GOR2	GOR3	AMR1	AMR2	AMR3	SIR1	SIR2	SIR3	KAR1	KAR2	KAR3
1	Severe	362.1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Severe	362.1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Severe	362.1	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Severe	362.1	4	0	0	0	0	2	3	0	0	0	0	0	0	0	0	0	0	0	0
5	Severe	362.1	5	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
6	Severe	362.2	1	1	0	0	7	2	0	0	0	0	0	4	0	0	0	0	0	0	0
7	Severe	362.2	2	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0	0	0
8	Severe	362.2	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Severe	362.2	4	4	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
10	Severe	362.2	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	Severe	362.3	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
12	Severe	362.3	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
13	Severe	362.3	3	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
14	Severe	362.3	4	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
15	Severe	362.3	5	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
16	Severe	22.1	1	48	4	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
17	Severe	22.1	2	41	3	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0
18	Severe	22.1	3	51	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	Severe	22.1	4	60	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
20	Severe	22.1	5	73	3	1	0	7	1	0	0	0	0	0	0	0	0	0	0	0	0
21	Severe	37.1	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	Severe	37.1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
23	Severe	37.1	3	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
24	Severe	37.1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	Severe	37.1	5	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0
26	Severe	37.3	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
27	Severe	37.3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	Severe	37.3	3	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
29	Severe	37.3	4	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
30	Severe	37.3	5	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
31	Severe	22.2	1	48	4	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
32	Severe	22.2	2	41	3	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0
33	Severe	22.2	3	51	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
34	Severe	22.2	4	60	1	0	0	0	0	0	0	0	1	4	0	0	0	0	0	0	0
35	Severe	22.2	5	73	3	1	0	7	1	0	0	0	0	0	0	0	0	0	0	0	0
36	Severe	33.3	1	16	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37	Severe	33.3	2	18	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38	Severe	33.3	3	11	0	2	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0
39	Severe	33.3	4	21	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	Severe	33.3	5	7	0	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
41	Severe	37.2	1	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0
42	Severe	37.2	2	0	0	0	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0
43	Severe	37.2	3	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0
44	Severe	37.2	4	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0

OBS	SCLASS	COMP	SPOT	SUR1	SUR2	SUR3	GER1	GER2	GER3	GOR1	GOR2	GOR3	AMR1	AMR2	AMR3	SIR1	SIR2	SIR3	KAR1	KAR2	KAR3
45	Severe	37.2	5	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
46	Moderate	40.1	1	18	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0
47	Moderate	40.1	2	34	6	8	0	0	1	3	0	2	0	0	0	0	0	0	0	0	0
48	Moderate	40.1	3	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49	Moderate	40.1	4	22	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50	Moderate	40.1	5	23	2	2	0	6	8	0	0	0	0	0	0	0	0	0	0	0	0
51	Moderate	191.1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52	Moderate	191.1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53	Moderate	191.1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54	Moderate	191.1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55	Moderate	191.1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56	Moderate	33.2	1	7	4	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
57	Moderate	33.2	2	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58	Moderate	33.2	3	13	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
59	Moderate	33.2	4	28	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0
60	Moderate	33.2	5	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61	Moderate	26.3	1	10	0	0	12	4	0	0	0	0	0	0	0	0	0	0	0	0	0
62	Moderate	26.3	2	34	0	0	5	6	0	0	0	0	0	0	0	0	0	0	0	0	0
63	Moderate	26.3	3	21	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0
64	Moderate	26.3	4	4	0	0	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0
65	Moderate	33.3	5	17	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0
66	Moderate	26.1	1	29	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67	Moderate	33.1	2	37	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68	Moderate	26.1	3	95	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69	Moderate	33.1	4	58	1	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70	Moderate	26.1	5	48	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
71	Moderate	22.3	1	25	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72	Moderate	22.3	2	39	7	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73	Moderate	22.3	3	26	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74	Moderate	22.3	4	40	7	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75	Moderate	22.3	5	20	5	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76	Moderate	191.2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77	Moderate	191.2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78	Moderate	191.2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79	Moderate	191.2	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80	Moderate	191.2	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81	Moderate	33.1	1	15	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
82	Moderate	33.1	2	37	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83	Moderate	33.1	3	38	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
84	Moderate	33.1	4	36	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	Moderate	33.1	5	29	6	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
86	Moderate	361.2	1	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87	Moderate	361.2	2	2	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
88	Moderate	361.2	3	4	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0

OBS	SCLASS	COMP	SPOT	SUR1	SUR2	SUR3	GER1	GER2	GER3	GOR1	GOR2	GOR3	AMR1	AMR2	AMR3	SIR1	SIR2	SIR3	KAR1	KAR2	KAR3
89	Moderate	361.2	4	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
90	Moderate	361.2	5	12	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0.0	0
91	Slight	11.3	1	21	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0.0	0
92	Slight	11.3	2	7	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0.0	0
93	Slight	11.3	3	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
94	Slight	11.3	4	8	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
95	Slight	11.3	5	5	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
96	Slight	192.2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
97	Slight	192.2	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	.	192.2	3
98	Slight	192.2	4	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	.	192.2	5
99	Slight	20.1	1	27	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0.0	0
100	Slight	20.1	2	7	0	0	5	0	3	0	0	0	0	0	0	0	0	0	0	0.0	0
101	Slight	20.1	3	27	7	1	0	0	0	0	0	0	1	2	1	0	0	0	0	0.0	0
102	Slight	20.1	4	11	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0.0	0
103	Slight	20.1	5	8	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0.0	0
104	Slight	361.3	1	11	0	0	10	0	0	0	0	0	3	0	0	0	0	0	0	0.0	0
105	Slight	361.3	2	7	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0.0	0
106	Slight	361.3	3	4	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0.0	0
107	Slight	361.3	4	1	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0.0	0
108	Slight	361.3	5	5	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0.0	0
109	Slight	191.3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
110	Slight	191.3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
111	Slight	191.3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
112	Slight	191.3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
113	Slight	191.3	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
114	Slight	11.1	1	6	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0.0	0
115	Slight	11.1	2	5	0	0	2	2	2	0	0	0	0	0	0	0	0	0	0	0.0	0
116	Slight	11.1	3	9	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
117	Slight	11.1	4	4	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
118	Slight	11.1	5	4	0	4	0	0	1	0	0	0	0	0	0	0	0	0	0	0.0	0
119	Slight	40.2	1	8	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0.0	0
120	Slight	40.2	2	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
121	Slight	40.2	3	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0.0	0
122	Slight	40.2	4	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.0	0
123	Slight	40.2	5	4	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
124	Slight	11.2	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
125	Slight	11.2	2	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
126	Slight	11.2	3	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
127	Slight	11.2	4	39	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
128	Slight	11.2	5	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0
129	Slight	26.2	1	37	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0.0	0
130	Slight	26.2	2	67	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0.0	0
131	Slight	26.2	3	50	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0.0	0
132	Slight	26.2	4	28	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0.0	0

OBS	SCLASS	COMP	SPOT	SUR1	SUR2	SUR3	GER1	GER2	GER3	GOR1	GOR2	GOR3	AMR1	AMR2	AMR3	SIR1	SIR2	SIR3	KAR1	KAR2	KAR3
133	Slight	26.2	5	31	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
134	None	20.2	1	15	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0.0
135	None	20.2	2	6	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
136	None	20.2	3	6	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0.0
137	None	20.2	4	12	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0.0
138	None	20.2	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	.
139	None	192.3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	.
140	None	192.3	4	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	.	192.3
141	None	20.3	1	1	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	.
142	None	20.3	3	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
143	None	20.3	4	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0.0
144	None	20.3	5	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0.0
145	None	192.1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
146	None	192.1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.0
147	None	192.1	3	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.0
148	None	192.1	4	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
149	None	192.1	5	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
150	None	361.1	1	0	0	0	2	3	1	0	0	0	0	0	0	0	0	0	0	0	0.0
151	None	361.1	2	10	3	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0.0
152	None	361.1	3	29	1	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0.0
153	None	361.1	4	5	0	0	0	4	0	0	0	0	3	0	0	0	0	0	0	0	0.0
154	None	361.1	5	3	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0.0
155	None	2.1	1	26	0	0	0	1	0	0	0	0	0	0	0	3	0	0	0	0	0.0
156	None	2.1	2	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
157	None	2.1	3	30	0	0	1	0	0	0	0	0	0	0	0	2	0	0	0	0	0.0
158	None	2.1	4	38	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0.0
159	None	2.1	5	30	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0.0
160	None	2.3	1	12	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.0
161	None	2.3	2	37	3	2	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0.0
162	None	2.3	3	40	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.0
163	None	2.3	4	8	0	0	0	0	0	11	2	0	0	0	0	0	0	0	0	0	0.0
164	None	2.3	5	33	0	1	1	0	0	3	2	0	0	0	0	0	0	0	0	0	0.0
165	None	40.3	1	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	0	0.0
166	None	40.3	2	7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
167	None	40.3	3	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0.0
168	None	40.3	4	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0.0
169	None	40.3	5	6	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0.0
170	None	2.2	1	35	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0.0
171	None	2.2	2	7	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0.0
172	None	2.2	3	21	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0.0
173	None	2.2	4	59	0	0	1	0	1	1	0	0	0	0	0	2	0	0	0	0	0.0
174	None	2.2	5	10	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0.0

Notes: Sclass means four top dying severity classes i.e. severe, moderate, slight and none; SR1 = Sundri of regeneration type R1 (i.e. seedlings less than 1.3 m in height); SR2 = sundri regeneration type R2 (i.e. seedling greater than 1.3 m in height but less than 2.5 cm in d.b.h.);SR3 = sundri regeneration type R3 (i.e. seedling greater than 1.3 m in height and d.b.h is higher than 2.35 cm). Similarly GR1, GR2 and GR3 refer to Gewa seedlings of R1, R2 and R3 types; GoR1, GoR2 and Go3 refer to Goran seedlings R1, R2 and R3 types; AMR1, AMR2 and AMR3 refer to Amur seedlings of R1, R2 and R3 types; SiR1and SiR2 refer to Singra seedlings of R1and R2 types; KaR1, KaR2 and KaR3 refer to Kankra seedlings of R1, R2 and R3 types.

Appendix 19: Data of regeneration of R1, R2 and R3 types of different mangrove species as recorded in January 2003 from 45 sub-plots (each 4 sq meter) from 9 sample plots from each of severe, moderate, slight and none (i.e. no) top dying of sundri from 12 landings in 10 compartments in the Sundarbans.

OBS	SCLASS	SR1	SR2	SR3	GR1	GR2	GR3	GOR1	GOR2	GOR3	AR1	AR2	AR3	SIR1	SIR2	SIR3	PR1	KR1	OTHE
1	Severe	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Severe	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Severe	5	0	1	0	0	0	0	0	0	4	2	4	0	0	0	0	0	0
4	Severe	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
5	Severe	4	0	0	0	0	0	0	0	0	1	0	2	0	0	0	1	0	0
6	Severe	1	0	0	5	5	1	0	0	0	0	0	0	0	0	0	0	0	0
7	Severe	8	0	0	0	0	0	0	0	0	5	2	0	0	0	0	4	0	0
8	Severe	1	0	0	1	0	0	0	0	0	3	0	0	0	0	0	0	0	0
9	Severe	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	Severe	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
11	Severe	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
12	Severe	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	Severe	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
14	Severe	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
15	Severe	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
16	Severe	61	2	5	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
17	Severe	21	0	1	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0
18	Severe	104	3	5	0	0	0	0	0	0	1	1	3	0	0	0	0	0	0
19	Severe	33	2	9	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
20	Severe	62	5	4	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
21	Severe	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	Severe	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	Severe	0	0	0	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0
24	Severe	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	Severe	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
26	Severe	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0
27	Severe	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0
28	Severe	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	Severe	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0
30	Severe	1	0	0	5	0	2	0	0	0	0	0	0	0	0	0	0	0	0
31	Severe	57	5	6	0	0	1	0	0	0	0	0	0	3	2	0	0	0	0
32	Severe	47	0	9	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
33	Severe	49	4	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
34	Severe	18	0	22	9	0	17	0	0	0	0	0	0	0	0	1	0	0	0
35	Severe	4	13	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	Severe	20	3	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37	Severe	8	1	1	0	0	0	0	0	0	1	2	1	0	0	0	0	0	0
38	Severe	3	0	4	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
39	Severe	17	7	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0
40	Severe	6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41	Severe	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
42	Severe	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
43	Severe	0	0	0	0	0	0	0	0	0	0	1	4	0	0	0	0	0	0
44	Severe	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45	Severe	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
46	Moderate	3	0	1	0	1	4	0	0	0	0	0	0	0	0	0	0	0	0
47	Moderate	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
48	Moderate	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
49	Moderate	18	0	0	0	0	4	0	0	1	1	0	0	0	0	0	0	0	0
50	Moderate	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0

OBS	SCLASS	SR1	SR2	SR3	GR1	GR2	GR3	GOR1	GOR2	GOR3	AR1	AR2	AR3	SIR1	SIR2	SIR3	PR1	KR1	OTHE
51	Moderate	1	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52	Moderate	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
53	Moderate	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	0	0	0
54	Moderate	3	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0
55	Moderate	15	0	0	13	0	0	0	0	0	2	0	0	0	0	0	0	0	0
56	Moderate	6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57	Moderate	17	0	3	0	0	0	0	0	0	4	0	0	0	0	0	2	0	1
58	Moderate	2	0	1	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
59	Moderate	12	0	1	0	0	2	0	0	0	6	0	1	0	0	0	0	0	0
60	Moderate	12	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
61	Moderate	107	0	8	235	4	0	0	0	0	0	0	0	0	0	0	0	0	3
62	Moderate	108	17	3	11	0	2	0	0	0	2	0	0	1	0	0	1	1	2
63	Moderate	8	0	0	78	4	6	0	0	0	0	0	0	0	0	0	0	0	0
64	Moderate	31	0	0	37	10	3	0	0	0	1	0	0	1	0	0	5	2	2
65	Moderate	33	2	0	18	0	28	0	0	0	0	0	0	0	0	0	1	2	1
66	Moderate	33	0	3	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
67	Moderate	63	0	0	0	0	0	0	0	0	2	0	0	1	0	0	0	0	0
68	Moderate	23	0	13	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
69	Moderate	38	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
70	Moderate	68	0	4	0	0	0	0	0	0	1	0	3	1	0	0	1	0	0
71	Moderate	26	0	4	0	0	0	0	0	0	3	0	1	0	0	0	0	0	0
72	Moderate	14	5	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73	Moderate	21	4	5	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
74	Moderate	43	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75	Moderate	23	3	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
76	Moderate	2	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
77	Moderate	1	0	0	0	1	1	4	0	0	0	0	0	0	0	0	0	0	0
78	Moderate	1	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0
79	Moderate	5	0	0	2	0	1	0	0	0	1	0	0	0	0	0	0	0	0
80	Moderate	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
81	Moderate	0	4	1	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0
82	Moderate	36	12	7	0	0	0	0	0	0	2	1	0	0	0	0	8	0	0
83	Moderate	57	0	5	1	0	1	0	0	0	4	0	0	0	0	0	4	0	0
84	Moderate	42	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0
85	Moderate	29	3	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0
86	Moderate	15	0	0	0	1	2	0	0	0	12	0	1	0	0	0	0	0	0
87	Moderate	4	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0
88	Moderate	14	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0
89	Moderate	6	0	0	0	0	1	0	0	0	3	0	0	0	0	0	0	0	0
90	Moderate	5	6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
91	Slight	10	2	1	1	0	2	0	0	0	1	0	1	0	0	0	0	0	0
92	Slight	6	0	0	0	0	0	0	0	0	2	1	2	0	0	0	0	0	0
93	Slight	18	3	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
94	Slight	42	2	3	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
95	Slight	22	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
96	Slight	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2	0
97	Slight	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
98	Slight	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
99	Slight	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	1	4	0
100	Slight	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	17	0

OBS	SCLASS	SR1	SR2	SR3	GR1	GR2	GR3	GOR1	GOR2	GOR3	AR1	AR2	AR3	SIR1	SIR2	SIR3	PR1	KR1	OTHE
101	Slight	19	0	0	2	0	1	0	0	0	7	1	0	0	0	0	0	0	0
102	Slight	22	6	4	0	0	0	0	0	0	8	0	2	0	0	0	0	0	0
103	Slight	13	0	0	0	0	2	1	0	0	4	0	0	0	0	0	0	0	0
104	Slight	29	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0
105	Slight	54	0	0	0	0	0	0	0	0	2	0	0	0	0	0	6	0	0
106	Slight	4	0	0	0	0	1	0	0	0	6	0	0	0	0	0	1	0	0
107	Slight	7	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0
108	Slight	4	0	0	0	0	0	0	0	0	8	0	0	0	0	0	1	0	0
109	Slight	8	0	0	0	0	0	0	0	0	11	0	0	0	0	0	1	0	0
110	Slight	7	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0
111	Slight	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
112	Slight	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
113	Slight	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
114	Slight	0	0	0	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0
115	Slight	3	0	0	0	0	0	3	0	0	1	0	0	0	0	0	0	0	0
116	Slight	5	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0
117	Slight	13	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
118	Slight	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
119	Slight	0	0	0	0	0	0	1	0	0	1	1	0	0	0	1	0	0	0
120	Slight	4	0	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
121	Slight	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
122	Slight	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
123	Slight	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
124	Slight	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
125	Slight	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
126	Slight	6	0	0	1	0	1	1	0	0	1	0	0	0	0	0	0	0	0
127	Slight	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
128	Slight	8	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
129	Slight	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130	Slight	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
131	Slight	57	0	0	0	0	0	0	0	0	6	2	1	0	0	0	0	0	0
132	Slight	53	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
133	Slight	40	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
134	Slight	38	0	2	0	0	0	0	0	0	4	1	1	0	0	0	0	0	0
135	Slight	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
136	None	8	0	1	1	0	0	0	0	0	5	0	0	0	0	0	0	0	0
137	None	2	0	0	1	0	0	0	0	0	3	2	0	0	0	0	0	0	0
138	None	3	0	0	0	0	0	0	0	3	10	1	0	0	0	0	0	0	0
139	None	6	0	0	0	0	0	1	0	2	3	2	0	0	0	0	0	0	0
140	None	4	0	3	3	0	0	0	0	0	4	2	5	0	0	0	0	0	0
141	None	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
142	None	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
143	None	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	7	0
144	None	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
145	None	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0
146	None	1	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
147	None	1	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
148	None	6	0	0	1	0	0	1	0	0	2	0	0	0	0	0	0	0	0
149	None	1	0	0	0	0	0	0	0	0	9	1	1	0	0	0	0	0	0
150	None	7	0	0	0	0	0	0	0	0	3	2	7	0	0	0	0	0	0

OBS	SCLASS	SR1	SR2	SR3	GR1	GR2	GR3	GOR1	GOR2	GOR3	AR1	AR2	AR3	SIR1	SIR2	SIR3	PR1	KR1	OTHE
151	None	0	0	0	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0
152	None	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	9	0
153	None	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
154	None	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	6	0
155	None	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0
156	None	3	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0
157	None	5	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
158	None	3	0	0	0	0	0	0	0	0	3	3	0	0	0	0	1	0	0
159	None	9	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0
160	None	4	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0
161	None	34	0	0	61	0	1	0	0	0	0	0	0	7	0	0	0	0	2
162	None	13	0	1	9	0	0	0	0	0	0	0	0	5	1	0	0	0	0
163	None	39	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	1
164	None	26	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2
165	None	27	1	0	13	0	1	0	0	0	0	0	0	5	0	2	0	0	0
166	None	22	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0
167	None	7	2	3	0	0	1	3	0	6	0	0	0	0	0	0	0	0	0
168	None	5	0	3	0	0	0	2	0	4	0	0	0	0	0	0	0	0	0
169	None	3	1	2	0	0	0	2	0	7	0	0	0	0	0	0	0	0	0
170	None	12	1	1	0	0	1	1	0	3	0	0	0	0	0	0	0	0	0
171	None	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
172	None	6	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
173	None	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
174	None	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
175	None	1	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
176	None	15	0	0	0	0	3	0	0	0	0	0	0	3	0	0	0	0	0
177	None	16	0	0	5	0	5	0	0	0	0	0	0	0	0	0	0	0	0
178	None	8	1	1	0	0	3	4	0	0	0	0	0	1	0	0	0	0	0
179	None	15	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	2
180	None	0	1	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0

Notes: Sclass means four top dying severity classes i.e. severe, moderate, slight and none; SR1 = Sundri of regeneration type R1 (i.e. seedlings less than 1.3 m in height); SR2 = sundri regeneration type R2 (i.e. seedling greater than 1.3 m in height but less than 2.5 cm in d.b.h.);SR3 = sundri regeneration type R3 (i.e. seedling greater than 1.3 m in height and d.b.h is higher than 2.35 cm). Similarly GR1, GR2 and GR3 refer to Gewa seedlings of R1, R2 and R3 types; GoR1, GoR2 and Go3 refer to Goran seedlings R1, R2 and R3 types; AR1, AR2 and AR3 refer to Amur seedlings of R1, R2 and R3 types; SiR1, SiR2 and SiR3 refer to Singra seedlings of R1, R2 and R3 types; PR1 refers to Passur seedlings of R1 type; KR1 refers to Kankra seedlings of R1 type, and othe refers to seedlings of all other mangrove species

Appendix 20: Data on number of seedlings, saplings, poles and trees per hectare of sundri, gewa, goran and amur as determined from the data of 1203 Temporary Sample Plots (TSP) in 55 compartments generated in 1996 and 1997 during FRMP Forest Inventory of the Sundarbans.

Compt No.	TSP No.	Sundri seedling	Sundri sapling	Sundri pole	Sundri tree	Gewa seedling	Gewa sapling	Gewa pole	Gewa tree	Goran seedling	Goran sapling	Goran pole	Goran tree	Amur seedling	Amur sapling	Amur pole	Amur tree
1	326	0	0	356.69	36.85	17197.45	2866.24	2929.94	26.32	0	0	0	0	0	0	76.43	0
1	327	6369.43	955.41	1987.26	31.58	0	955.41	1095.54	110.54	0	0	0	0	0	0	76.43	0
1	328	5732.48	1751.59	382.17	21.06	1273.89	2229.3	2343.95	57.9	0	0	0	0	3821.66	796.18	331.21	0
1	329	15286.62	3980.89	1197.45	315.84	0	636.94	1070.06	10.53	0	0	0	0	636.94	318.47	127.39	0
1	360	43312.1	8121.02	560.51	221.09	0	477.71	2140.13	15.79	0	0	25.48	0	0	0	50.96	0
1	361	3821.66	159.24	178.34	152.66	0	796.18	2114.65	21.06	0	0	0	0	0	0	0	0
1	362	4458.6	1114.65	152.87	10.53	0	0	0	0	0	0	0	0	0	0	0	0
1	363	5095.54	3184.71	1910.83	215.82	1273.89	796.18	1579.62	10.53	0	0	0	0	0	318.47	254.78	5.26
1	364	10191.08	3821.66	1095.54	373.74	1910.83	159.24	840.76	5.26	0	0	25.48	0	0	796.18	76.43	0
1	398	45222.93	4458.6	1146.5	57.9	3821.66	159.24	1859.87	5.26	0	0	0	0	636.94	0	0	0
1	399	636.94	477.71	1808.92	268.46	0	159.24	458.6	0	0	0	0	0	0	0	0	0
1	401	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	402	6369.43	796.18	1757.96	73.7	0	0	1477.71	5.26	0	0	0	0	0	0	0	0
1	403	13375.6	636.94	1630.57	131.6	636.94	477.71	2038.22	15.79	636.94	1751.59	229.3	0	0	0	0	0
1	404	45859.87	7643.31	713.38	52.64	1910.83	1433.12	942.68	26.32	3184.71	159.24	0	0	0	0	101.91	0
1	405	26751.59	7324.84	356.69	252.67	0	477.71	458.6	57.9	0	0	0	0	0	0	76.43	0
1	406	10191.08	3184.71	1783.44	231.62	1273.89	318.47	509.55	0	0	0	0	0	0	0	0	0
1	431	43949.04	4299.36	2012.74	147.39	15923.57	3343.95	1146.5	47.38	7006.37	2070.06	331.21	5.26	0	0	0	0
1	432	50955.41	1910.83	2420.38	121.07	5732.48	1433.12	1248.41	21.06	4458.6	2070.06	178.34	0	0	159.24	0	0
1	433	40127.39	159.24	1146.5	47.38	2547.77	796.18	1605.1	5.26	6369.43	8598.73	178.34	0	0	0	0	0
1	434	1910.83	636.94	993.63	326.37	0	159.24	840.76	10.53	0	0	0	0	0	0	0	0
1	435	67515.92	2229.3	1350.32	131.6	31210.19	1751.59	3133.76	26.32	636.94	2547.77	229.3	0	0	0	0	0
1	436	7006.37	1910.83	1656.05	194.77	0	159.24	356.69	31.58	0	0	0	0	0	0	0	0
1	437	61783.44	5414.01	3057.32	173.71	1273.89	955.41	636.94	0	0	0	0	0	0	796.18	76.43	0
1	438	70063.69	5732.48	1656.05	110.54	636.94	159.24	484.08	5.26	0	0	0	0	0	0	0	0
1	439	25477.71	6687.9	789.81	100.02	5095.54	1273.89	484.08	21.06	0	0	0	0	0	0	76.43	0
1	440	43949.04	1910.83	1324.84	157.92	12738.85	1592.36	1146.5	68.43	12738.85	1751.59	25.48	0	0	0	0	0
1	441	18471.34	4936.31	2089.17	242.14	0	0	1401.27	0	0	0	0	0	636.94	318.47	407.64	0
1	469	36305.73	5732.48	2802.55	273.73	636.94	0	280.25	10.53	0	0	0	0	0	0	152.87	0
1	470	20382.17	4777.07	2573.25	205.3	0	0	611.46	36.85	0	0	0	0	0	0	0	0

Compt No.	TSP No.	Sundri seedling	Sundri sapling	Sundri pole	Sundri tree	Gewa seedling	Gewa sapling	Gewa pole	Gewa tree	Goran seedling	Goran sapling	Goran pole	Goran tree	Amur seedling	Amur sapling	Amur pole	Amur tree
1	470	20382.17	4777.07	2573.25	205.3	0	0	611.46	36.85	0	0	0	0	0	0	0	0
1	471	15923.57	1273.89	1707.01	142.13	0	318.47	611.46	26.32	0	0	0	0	0	0	0	0
2	322	14012.74	1114.65	2063.69	52.64	1273.89	636.94	1095.54	26.32	1910.83	318.47	50.96	0	0	0	0	0
2	330	55414.01	5095.54	4152.87	168.45	636.94	955.41	2675.16	5.26	0	0	0	0	0	318.47	127.39	0
2	357	56050.96	3980.89	1808.92	247.41	636.94	0	993.63	15.79	0	0	0	0	5732.48	796.18	203.82	0
2	358	12101.91	477.71	1070.06	73.7	636.94	0	382.17	15.79	1910.83	0	0	0	636.94	0	0	0
2	359	12738.85	2229.3	1885.35	200.03	0	0	738.85	10.53	0	0	0	0	0	159.24	0	0
2	365	1273.89	1114.65	2318.47	215.82	0	0	50.96	31.58	0	0	0	10.53	0	318.47	127.39	0
2	366	8917.2	1910.83	1910.83	184.24	0	477.71	1401.27	147.39	0	0	0	0	1273.89	1592.36	738.85	0
2	367	39490.45	8280.25	1885.35	152.66	0	159.24	1044.59	5.26	0	0	0	0	0	159.24	50.96	0
2	368	57324.84	2707.01	2089.17	105.28	0	796.18	917.2	15.79	3821.66	318.47	280.25	0	0	0	0	0
2	394	63057.32	2866.24	3668.79	305.31	1273.89	1751.59	1732.48	0	0	636.94	76.43	0	1273.89	0	25.48	0
2	395	75796.18	5095.54	2955.41	263.2	636.94	477.71	636.94	10.53	0	0	0	0	0	0	0	0
2	396	74522.29	1910.83	407.64	110.54	1910.83	1592.36	2471.34	0	0	0	0	0	0	0	0	0
2	397	69426.75	3184.71	1019.11	73.7	4458.6	2707.01	2751.59	0	0	0	25.48	0	636.94	159.24	0	0
2	407	17197.45	477.71	2089.17	21.06	1910.83	0	1503.18	10.53	4458.6	5573.25	152.87	0	0	0	0	0
2	408	7643.31	1751.59	4407.64	89.49	636.94	0	127.39	10.53	0	0	0	0	0	0	25.48	0
2	409	17834.39	3184.71	1273.89	384.27	0	159.24	509.55	0	0	0	0	0	0	1273.89	203.82	0
2	428	52229.3	1273.89	968.15	136.86	0	955.41	611.46	0	3184.71	1751.59	178.34	0	0	0	0	0
2	429	12101.91	2229.3	1630.57	163.18	0	159.24	331.21	10.53	0	0	0	0	5732.48	159.24	76.43	0
2	430	21019.11	3343.95	917.2	31.58	5732.48	477.71	942.68	47.38	0	0	0	0	636.94	0	101.91	0
2	442	43312.1	14808.92	1987.26	273.73	0	477.71	254.78	15.79	0	0	0	0	3184.71	1592.36	305.73	0
2	529	15286.62	2707.01	917.2	210.56	3184.71	318.47	560.51	10.53	0	477.71	0	0	0	159.24	101.91	0
3	321	28662.42	2388.54	2318.47	115.81	0	477.71	1452.23	0	0	1592.36	0	0	0	0	0	0
3	324	27388.54	1910.83	1452.23	68.43	6369.43	318.47	636.94	0	0	0	203.82	0	0	0	0	0
3	325	10828.03	1273.89	2802.55	57.9	1910.83	1433.12	1834.39	5.26	3184.71	2070.06	25.48	0	0	0	0	0
3	331	56687.9	2547.77	2547.77	131.6	8280.25	796.18	636.94	0	6369.43	1592.36	560.51	0	0	0	0	0
3	1167	31847.13	3184.71	1808.92	131.6	0	318.47	1248.41	0	0	1592.36	0	0	0	0	0	0
3	1168	54140.13	3662.42	1528.66	573.77	636.94	318.47	535.03	5.26	0	0	0	0	1273.89	636.94	254.78	0
3	1169	18471.34	3343.95	2649.68	252.67	0	159.24	1197.45	5.26	0	0	0	0	0	796.18	254.78	0
3	1170	10828.03	3025.48	1605.1	115.81	1273.89	636.94	509.55	31.58	1273.89	636.94	356.69	10.53	0	0	0	0
3	1171	68152.87	3503.18	3312.1	47.38	636.94	636.94	1401.27	5.26	2547.77	2707.01	50.96	0	0	0	0	0
3	1174	34394.9	2229.3	2114.65	263.2	0	159.24	917.2	10.53	0	0	0	0	636.94	1433.12	229.3	0

Compt No.	TSP No.	Sundri seedling	Sundri sapling	Sundri pole	Sundri tree	Gewa seedling	Gewa sapling	Gewa pole	Gewa tree	Goran seedling	Goran sapling	Goran pole	Goran tree	Amur seedling	Amur sapling	Amur pole	Amur tree
3	1175	16560.51	1751.59	1834.39	368.48	0	0	127.39	0	0	0	0	0	0	0	203.82	0
3	1176	39490.45	1273.89	356.69	189.5	0	0	433.12	0	0	0	0	0	0	477.71	178.34	0
3	1199	43949.04	318.47	1095.54	573.77	0	159.24	254.78	0	0	0	0	0	0	318.47	101.91	0
3	1200	17834.39	159.24	713.38	105.28	0	0	331.21	5.26	0	0	0	0	0	0	50.96	0
3	1201	31847.13	3503.18	2267.52	47.38	5732.48	159.24	1885.35	0	3184.71	1114.65	0	0	0	0	0	0
3	1202	14012.74	1751.59	1605.1	142.13	1910.83	1114.65	1605.1	5.26	6369.43	2547.77	76.43	0	0	0	0	0
3	1203	12101.91	796.18	1095.54	5.26	7006.37	1592.36	1095.54	47.38	0	318.47	127.39	0	636.94	0	0	0
4	1060	24203.82	2229.3	1656.05	100.02	0	159.24	611.46	0	0	2547.77	50.96	0	636.94	0	0	0
4	1076	24203.82	8917.2	2445.86	194.77	0	159.24	1299.36	5.26	0	1592.36	0	0	0	477.71	25.48	0
4	1077	29299.36	1592.36	866.24	194.77	636.94	477.71	1095.54	31.58	0	0	0	0	636.94	159.24	50.96	0
4	1089	45222.93	7961.78	2089.17	73.7	11464.97	2866.24	1503.18	21.06	0	0	0	0	1273.89	0	25.48	0
4	1090	14012.74	3025.48	1248.41	226.35	2547.77	1910.83	764.33	0	3821.66	955.41	0	0	0	0	0	0
4	1107	12101.91	1592.36	1070.06	205.3	0	636.94	1299.36	5.26	0	0	0	0	1910.83	477.71	433.12	0
4	1114	25477.71	6528.66	1350.32	121.07	1910.83	318.47	611.46	10.53	0	0	76.43	0	636.94	318.47	254.78	0
4	1115	10191.08	636.94	1528.66	210.56	0	0	1070.06	63.17	0	0	0	0	1273.89	1592.36	433.12	15.79
4	1116	16560.51	1433.12	1732.48	63.17	1910.83	0	713.38	0	636.94	1433.12	50.96	0	0	0	0	0
4	1117	22292.99	1592.36	1044.59	200.03	1273.89	159.24	662.42	5.26	0	0	0	0	0	1114.65	0	0
4	1135	22292.99	2547.77	2191.08	289.52	4458.6	1751.59	840.76	0	0	0	0	0	2547.77	318.47	305.73	0
4	1136	43312.1	1910.83	1987.26	415.86	0	955.41	356.69	42.11	0	0	0	0	0	0	25.48	0
4	1137	17197.45	955.41	1248.41	115.81	1910.83	318.47	305.73	5.26	0	0	76.43	0	636.94	159.24	178.34	0
4	1141	22292.99	955.41	636.94	194.77	0	159.24	764.33	0	0	0	0	0	0	0	101.91	0
4	1142	80891.72	4777.07	3515.92	110.54	7006.37	796.18	1936.31	5.26	0	2070.06	76.43	0	0	0	76.43	0
4	1143	25477.71	2707.01	1656.05	15.79	636.94	1273.89	2242.04	5.26	22929.94	8598.73	356.69	0	0	0	0	0
4	1144	42038.22	1273.89	1808.92	200.03	0	0	407.64	31.58	0	0	0	0	0	636.94	305.73	0
5	1079	50955.41	3503.18	1859.87	94.75	0	636.94	917.2	5.26	1273.89	955.41	101.91	0	0	159.24	0	0
5	1080	52866.24	3503.18	2726.11	84.22	3184.71	0	1554.14	15.79	1273.89	318.47	0	0	0	0	0	0
5	1081	27388.54	4140.13	3541.4	205.3	10828.03	1751.59	1248.41	57.9	0	159.24	25.48	0	1910.83	636.94	127.39	0
5	1082	50955.41	1273.89	1171.97	115.81	11464.97	1114.65	2318.47	226.35	2547.77	2547.77	127.39	0	1273.89	636.94	101.91	0
5	1083	14012.74	1273.89	2012.74	26.32	3821.66	796.18	2929.94	0	2547.77	636.94	76.43	0	0	0	0	0
5	1084	55414.01	4458.6	2471.34	210.56	11464.97	477.71	942.68	57.9	1273.89	159.24	25.48	0	636.94	636.94	382.17	0
5	1085	32484.08	4458.6	2038.22	142.13	0	0	662.42	0	0	0	0	0	3184.71	318.47	152.87	0
5	1086	43949.04	3503.18	433.12	10.53	5095.54	796.18	1732.48	5.26	1910.83	7165.61	127.39	0	636.94	1273.89	76.43	0
5	1110	5095.54	2866.24	2547.77	5.26	1910.83	636.94	1044.59	0	0	159.24	0	0	0	0	0	0

Compt No.	TSP No.	Sundri seedling	Sundri sapling	Sundri pole	Sundri tree	Gewa seedling	Gewa sapling	Gewa pole	Gewa tree	Goran seedling	Goran sapling	Goran pole	Goran tree	Amur seedling	Amur sapling	Amur pole	Amur tree
5	1111	76433.12	5414.01	2114.65	268.46	0	0	407.64	26.32	0	0	0	0	0	955.41	356.69	0
5	1112	49044.59	477.71	789.81	10.53	17834.39	1433.12	3133.76	10.53	0	636.94	25.48	0	0	0	0	0
5	1113	76433.12	2070.06	2165.61	152.66	5095.54	955.41	1324.84	0	0	0	50.96	0	0	159.24	0	0
5	1138	43312.1	3343.95	2394.9	289.52	636.94	318.47	662.42	0	636.94	0	50.96	0	0	159.24	0	0
5	1139	22292.99	1910.83	1375.8	252.67	636.94	0	560.51	10.53	0	0	0	0	0	318.47	280.25	0
5	1140	17197.45	3343.95	917.2	42.11	1910.83	636.94	1273.89	10.53	0	0	0	0	0	477.71	101.91	0
5	1172	34394.9	3662.42	2777.07	157.92	0	0	662.42	0	0	0	50.96	0	0	0	25.48	0
5	1173	24840.76	3662.42	1248.41	105.28	0	159.24	687.9	5.26	0	0	0	0	0	0	0	0
6	1008	0	0	0	0	2547.77	636.94	305.73	0	0	0	0	0	636.94	0	0	0
6	1023	0	0	0	0	1910.83	159.24	0	10.53	0	0	0	0	0	0	0	0
6	1024	0	0	713.38	0	4458.6	636.94	1732.48	10.53	0	0	0	0	0	0	0	0
6	1025	17834.39	1433.12	356.69	10.53	19745.22	159.24	1121.02	215.82	0	0	0	0	636.94	159.24	0	0
6	1026	15923.57	0	203.82	0	3184.71	3025.48	6675.16	0	9554.14	6847.13	254.78	0	0	0	0	0
6	1027	47770.7	1114.65	1936.31	68.43	1273.89	318.47	2828.03	21.06	5095.54	5891.72	636.94	0	0	0	0	0
6	1028	16560.51	796.18	1681.53	205.3	0	159.24	687.9	63.17	636.94	159.24	101.91	5.26	0	159.24	0	5.26
6	1051	14012.74	318.47	1707.01	84.22	1273.89	636.94	993.63	47.38	0	955.41	127.39	0	0	0	0	0
6	1052	12101.91	796.18	2191.08	200.03	5095.54	318.47	1324.84	42.11	7643.31	1433.12	331.21	0	0	0	25.48	0
6	1053	44585.99	1273.89	1859.87	89.49	636.94	477.71	713.38	63.17	636.94	1592.36	50.96	0	0	0	0	0
6	1054	30573.25	2229.3	1808.92	0	3821.66	2229.3	3643.31	5.26	11464.97	5732.48	101.91	0	0	0	0	0
6	1055	9554.14	0	560.51	0	5732.48	159.24	2165.61	15.79	1910.83	1910.83	0	0	636.94	0	0	0
6	1056	18471.34	1592.36	1859.87	10.53	1273.89	955.41	3439.49	15.79	10828.03	6210.19	50.96	0	0	0	0	0
6	1057	8280.25	159.24	840.76	115.81	636.94	1433.12	1605.1	78.96	0	159.24	101.91	0	0	159.24	50.96	0
6	1058	14649.68	3503.18	2802.55	42.11	0	3980.89	611.46	31.58	2547.77	7006.37	178.34	0	0	0	0	0
6	1059	19108.28	1592.36	1783.44	31.58	14012.74	318.47	1070.06	36.85	3821.66	955.41	178.34	0	0	0	0	0
6	1078	10191.08	1751.59	1171.97	163.18	636.94	318.47	407.64	36.85	0	0	178.34	0	1273.89	159.24	25.48	0
6	1087	7006.37	1273.89	1273.89	247.41	2547.77	0	585.99	78.96	0	0	0	0	0	159.24	25.48	0
6	1088	22929.94	1592.36	1554.14	142.13	1273.89	0	382.17	21.06	0	0	0	0	0	0	25.48	0
6	1108	8280.25	796.18	2547.77	147.39	636.94	318.47	1070.06	78.96	0	0	25.48	0	0	0	0	0
6	1109	45859.87	1751.59	4076.43	157.92	0	955.41	509.55	31.58	0	159.24	50.96	0	636.94	636.94	229.3	0
7	1020	0	0	0	0	0	0	0	0	9554.14	0	0	0	0	0	0	0
7	1021	17197.45	636.94	1783.44	68.43	636.94	0	1375.8	10.53	14649.68	6210.19	76.43	0	0	0	0	0
7	1022	25477.71	2547.77	2216.56	15.79	3184.71	1910.83	2496.82	10.53	11464.97	12261.15	280.25	0	0	0	0	0
7	1030	12101.91	1114.65	1146.5	89.49	0	796.18	2012.74	5.26	5732.48	4299.36	305.73	0	0	0	25.48	0

Compt No.	TSP No.	Sundri seedling	Sundri sapling	Sundri pole	Sundri tree	Gewa seedling	Gewa sapling	Gewa pole	Gewa tree	Goran seedling	Goran sapling	Goran pole	Goran tree	Amur seedling	Amur sapling	Amur pole	Amur tree
7	1031	6369.43	955.41	1732.48	63.17	0	636.94	535.03	0	2547.77	3821.66	50.96	0	0	0	0	0
7	1032	35668.79	1910.83	2089.17	63.17	0	636.94	484.08	5.26	1273.89	796.18	356.69	0	0	0	0	0
7	1033	38216.56	2547.77	280.25	0	4458.6	5095.54	2318.47	0	29299.36	7484.08	101.91	0	0	0	0	0
7	1034	1273.89	636.94	0	0	17197.45	2547.77	993.63	0	5095.54	0	0	0	0	0	0	0
7	1043	3184.71	318.47	76.43	0	1273.89	0	356.69	0	8280.25	2070.06	280.25	0	0	0	50.96	0
7	1044	26751.59	636.94	1732.48	31.58	0	636.94	2089.17	10.53	1273.89	9076.43	331.21	0	0	0	0	0
7	1045	3184.71	955.41	2038.22	131.6	1910.83	636.94	1222.93	10.53	0	0	280.25	0	0	159.24	178.34	0
7	1046	5732.48	636.94	1044.59	147.39	3184.71	1273.89	687.9	5.26	0	636.94	280.25	0	0	0	0	0
7	1047	6369.43	2547.77	636.94	73.7	1910.83	318.47	1248.41	0	0	318.47	229.3	0	1273.89	477.71	0	0
7	1048	1273.89	159.24	0	0	5095.54	2229.3	2547.77	0	0	0	0	0	0	0	0	0
7	1049	21019.11	1592.36	1656.05	57.9	1910.83	318.47	993.63	0	1910.83	2547.77	127.39	0	0	0	25.48	0
7	1050	30573.25	2070.06	1375.8	200.03	0	796.18	942.68	63.17	0	0	25.48	0	636.94	159.24	76.43	0
7	1061	8917.2	2070.06	1324.84	163.18	0	0	254.78	15.79	0	0	25.48	0	0	318.47	0	0
7	1062	63694.27	5095.54	1171.97	57.9	636.94	1273.89	5248.41	0	2547.77	5732.48	0	0	0	0	0	0
7	1063	2547.77	318.47	662.42	157.92	0	0	331.21	5.26	636.94	3503.18	203.82	0	636.94	0	0	0
7	1064	14012.74	3980.89	585.99	10.53	14012.74	6210.19	1350.32	15.79	64331.21	9235.67	662.42	0	0	0	0	0
7	1073	1910.83	4299.36	1171.97	26.32	8917.2	1273.89	1095.54	0	37579.62	8598.73	866.24	0	0	0	0	0
7	1074	19108.28	3821.66	1910.83	5.26	6369.43	3184.71	1605.1	0	18471.34	3662.42	101.91	0	0	0	0	0
7	1075	33121.02	4299.36	1579.62	100.02	0	1751.59	2955.41	15.79	1273.89	4617.83	50.96	0	636.94	0	0	0
7	1091	21656.05	3025.48	1350.32	110.54	2547.77	477.71	789.81	21.06	0	4140.13	229.3	0	0	477.71	0	0
7	1092	36942.68	4458.6	3363.06	257.94	5095.54	796.18	1248.41	10.53	3821.66	1910.83	636.94	0	636.94	0	0	0
7	1104	24840.76	636.94	458.6	100.02	0	0	1121.02	0	0	159.24	25.48	0	636.94	0	127.39	0
7	1105	21656.05	1592.36	1171.97	84.22	1910.83	159.24	738.85	0	1273.89	318.47	101.91	0	0	0	76.43	0
7	1106	15923.57	1592.36	1324.84	136.86	1273.89	0	458.6	10.53	0	636.94	101.91	0	636.94	159.24	76.43	0
7	1118	70063.69	7006.37	2369.43	215.82	19108.28	2388.54	1146.5	47.38	4458.6	1910.83	152.87	0	1273.89	0	25.48	0
7	1119	45859.87	5732.48	2038.22	121.07	15923.57	1910.83	1401.27	31.58	5732.48	2070.06	229.3	0	0	0	50.96	0
8	983	25477.71	2388.54	1019.11	215.82	6369.43	796.18	1528.66	36.85	636.94	5414.01	509.55	0	0	0	0	0
8	992	22929.94	2866.24	254.78	0	3821.66	4617.83	3006.37	0	46496.82	8280.25	25.48	0	0	0	0	0
8	993	3184.71	318.47	509.55	21.06	14012.74	1273.89	1070.06	10.53	14012.74	5732.48	662.42	0	0	0	0	0
8	994	0	0	50.96	0	15286.62	5414.01	2828.03	0	23566.88	10350.32	305.73	0	0	0	0	0
8	995	17834.39	2070.06	2445.86	89.49	2547.77	636.94	1783.44	10.53	11464.97	7961.78	662.42	0	0	0	0	0
8	996	22929.94	1751.59	1299.36	0	5095.54	318.47	1171.97	0	6369.43	6210.19	382.17	0	0	0	0	0
8	997	11464.97	1433.12	1044.59	78.96	8917.2	1910.83	1554.14	10.53	9554.14	6210.19	203.82	0	0	0	0	0

Compt No.	TSP No.	Sundri seedling	Sundri sapling	Sundri pole	Sundri tree	Gewa seedling	Gewa sapling	Gewa pole	Gewa tree	Goran seedling	Goran sapling	Goran pole	Goran tree	Amur seedling	Amur sapling	Amur pole	Amur tree
8	1004	14012.74	1433.12	1961.78	173.71	7643.31	1114.65	1936.31	0	4458.6	1433.12	203.82	0	1273.89	318.47	50.96	0
8	1005	6369.43	796.18	1961.78	136.86	1273.89	477.71	585.99	0	2547.77	1910.83	407.64	0	0	318.47	0	0
8	1006	24840.76	7165.61	1757.96	131.6	0	0	76.43	15.79	21019.11	9713.38	2700.64	0	0	0	0	0
8	1007	5732.48	796.18	1477.71	100.02	3821.66	477.71	5477.71	10.53	3184.71	3980.89	1350.32	0	0	0	25.48	0
8	1009	16560.51	2070.06	1859.87	63.17	1273.89	2547.77	1070.06	10.53	5732.48	2547.77	229.3	0	0	0	0	0
8	1010	31210.19	3503.18	2267.52	231.62	12738.85	1273.89	866.24	42.11	2547.77	796.18	25.48	0	2547.77	159.24	0	0
8	1011	16560.51	636.94	1859.87	147.39	2547.77	159.24	764.33	0	3821.66	1910.83	687.9	0	0	0	0	0
8	1012	49681.53	1751.59	1070.06	384.27	1910.83	1114.65	993.63	10.53	1910.83	1910.83	331.21	0	0	1114.65	50.96	0
8	1013	22292.99	5732.48	1961.78	0	6369.43	4299.36	3082.8	0	8917.2	6847.13	1324.84	0	0	0	0	0
8	1016	54140.13	2229.3	1936.31	305.31	0	955.41	1299.36	10.53	0	159.24	101.91	0	1273.89	1114.65	203.82	0
8	1017	9554.14	636.94	891.72	110.54	636.94	318.47	101.91	5.26	3184.71	4617.83	713.38	0	0	159.24	76.43	0
8	1018	18471.34	1433.12	1732.48	89.49	2547.77	1114.65	1222.93	0	0	0	152.87	0	0	796.18	127.39	0
8	1019	8917.2	1910.83	2369.43	263.2	1273.89	0	1885.35	5.26	0	796.18	101.91	0	1273.89	318.47	101.91	0
8	1035	17834.39	2388.54	2496.82	5.26	7643.31	2388.54	2318.47	0	19745.22	12738.85	662.42	0	0	0	0	0
8	1036	57324.84	955.41	1808.92	68.43	40764.33	3025.48	3719.75	21.06	0	6050.96	891.72	0	0	0	101.91	0
8	1037	12101.91	2070.06	331.21	0	3821.66	3662.42	3286.62	5.26	11649.68	11464.97	968.15	0	0	0	0	0
8	1038	7006.37	2866.24	127.33	0	5732.48	5095.54	3923.57	0	10828.03	11305.73	1044.59	0	0	0	0	0
8	1039	1273.89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	1040	39490.45	6210.19	2063.69	410.59	2547.77	796.18	331.21	36.85	2547.77	1114.65	203.82	0	2547.77	955.41	152.87	0
8	1041	28025.48	1273.89	1477.71	68.43	3184.71	318.47	1324.84	0	1910.83	955.41	433.12	0	0	0	101.91	0
8	1042	11464.97	2388.54	1503.18	284.26	636.94	477.71	687.9	5.26	7006.37	5095.54	407.64	0	636.94	0	0	0
8	1065	0	318.47	178.34	0	12738.85	10828.03	3592.36	0	26751.59	14968.15	2063.69	0	0	0	76.43	0
8	1066	24203.82	3025.48	1197.45	26.32	7643.31	3025.48	1681.53	26.32	15923.57	7324.84	1222.93	0	0	0	0	0
8	1068	53503.18	1751.59	1044.59	10.53	3821.66	3662.42	4280.25	21.06	26751.59	18152.87	713.38	0	0	0	0	0
8	1069	37579.62	3821.66	2700.64	236.88	9554.14	1751.59	968.15	31.58	0	636.94	178.34	0	0	0	0	0
8	1070	33121.02	3184.71	968.15	84.22	3821.66	0	127.39	5.26	7643.31	8598.73	1273.89	0	1910.83	636.94	458.6	0
8	1071	20382.17	3980.89	611.46	5.26	1910.83	2866.24	2343.95	10.53	34394.9	19904.46	738.85	0	0	0	0	0
8	1095	21656.05	2866.24	738.85	115.81	5732.48	2866.24	3923.57	15.79	11464.97	8598.73	1019.11	0	0	159.24	0	0
8	1096	14012.74	1910.83	662.42	10.53	17834.39	2547.77	2089.17	15.79	33121.02	7165.61	1477.71	0	0	0	0	0
9	1072	18471.34	4936.31	1579.62	78.96	14649.68	4140.13	8[illegible]6.29	10.53	24840.76	8280.25	458.6	0	0	0	50.96	0
9	1093	7643.31	2070.06	738.85	5.26	3184.71	3980.89	1121.02	5.26	19745.22	4936.31	484.08	0	0	0	0	0
9	1094	18471.34	3343.95	1222.93	26.32	19745.22	3503.18	687.9	21.06	47770.7	11305.73	815.29	0	0	0	50.96	0
9	1100	9554.14	318.47	50.96	0	36942.68	20222.93	1324.84	0	41401.27	25796.18	1477.71	0	0	0	0	0

Compt No.	TSP No.	Sundri seedling	Sundri sapling	Sundri pole	Sundri tree	Gewa seedling	Gewa sapling	Gewa pole	Gewa tree	Goran seedling	Goran sapling	Goran pole	Goran tree	Amur seedling	Amur sapling	Amur pole	Amur tree
9	1101	14649.68	4777.07	891.72	36.85	5732.48	0	840.76	0	43312.1	6687.9	433.12	0	0	0	0	0
9	1102	50955.41	9872.61	3592.36	142.13	6369.43	1114.65	433.12	0	0	0	0	0	0	0	0	0
9	1103	17834.39	2866.24	1299.36	0	11464.97	3343.95	1681.53	10.53	21019.11	2866.24	815.29	0	0	0	0	0
9	1120	24203.82	1592.36	560.51	0	8917.2	2388.54	2420.38	10.53	9554.14	3662.42	560.51	0	0	0	0	0
9	1121	15923.57	3343.95	4203.82	68.43	5095.54	796.18	382.17	0	636.94	1273.89	0	0	0	0	25.48	0
9	1122	67515.92	3980.89	2547.77	268.46	4458.6	2707.01	2089.17	5.26	5732.48	3662.42	509.55	0	0	159.24	50.96	0
9	1123	18471.34	2866.24	1350.32	10.53	2547.77	796.18	1070.06	0	7006.37	6687.9	917.2	0	0	0	0	0
9	1124	19745.22	1273.89	891.72	0	5095.54	2866.24	2140.13	0	29936.31	16878.98	2267.52	0	0	0	0	0
9	1125	12101.91	2707.01	585.99	5.26	17197.45	5095.54	1554.14	5.26	40127.39	16878.98	2445.86	0	0	0	0	0
9	1126	0	0	76.43	0	10191.08	6687.9	1783.44	31.58	9554.14	6847.13	1324.84	0	0	0	0	0
9	1127	17834.39	3343.95	1783.44	36.85	7006.37	3184.71	2292.99	5.26	11464.97	8121.02	917.2	0	0	0	0	0
9	1128	14649.68	3662.42	1121.02	0	10191.08	2070.06	1222.93	0	26751.59	11305.73	2114.65	0	0	0	0	0
9	1129	10191.08	6050.96	3719.75	157.92	4458.6	2070.06	1146.5	0	1273.89	318.47	0	0	0	0	0	0
9	1130	36305.73	1592.36	1401.27	5.26	16560.51	2707.01	1656.05	0	11464.97	14490.45	1095.54	0	0	0	0	0
9	1131	47770.7	6528.66	1095.54	63.17	0	0	968.15	15.79	38216.56	13535.03	815.29	0	0	0	0	0
9	1149	32484.08	3025.48	1936.31	126.34	16560.51	2070.06	1503.18	5.26	0	0	50.96	0	0	0	0	0
9	1150	1910.83	477.71	1477.71	36.85	1910.83	796.18	1936.31	10.53	12101.91	2707.01	229.3	0	0	0	76.43	0
9	1151	37579.62	1592.36	1171.97	0	5732.48	1910.83	1808.92	0	6369.43	4140.13	280.25	0	0	0	76.43	0
9	1152	17197.45	2070.06	382.17	0	7643.31	3184.71	1834.39	10.53	25477.71	11942.68	993.63	0	0	0	0	0
9	1153	2547.77	0	0	0	14012.74	10191.08	5324.84	0	10191.08	6050.96	1248.41	0	0	0	0	0
9	1154	22929.94	6847.13	2089.17	31.58	7643.31	2866.24	942.68	0	6369.43	1433.12	152.87	0	0	0	0	0
9	1155	10191.08	2388.54	1222.93	47.38	636.94	477.71	789.81	15.79	28025.48	7802.55	662.42	0	0	0	0	0
9	1158	18471.34	5573.25	1528.66	10.53	19745.22	3503.18	968.15	0	13375.8	5095.54	305.73	0	0	0	0	0
9	1159	0	159.24	509.55	284.26	1273.89	159.24	484.08	15.79	5732.48	20222.93	1910.83	0	0	0	0	0
9	1160	12738.85	4617.83	2114.65	194.77	0	159.24	254.78	0	7643.31	8280.25	1273.89	0	0	0	0	0
9	1161	7006.37	4299.36	1910.83	115.81	2547.77	3821.66	1885.35	0	0	1114.65	178.34	0	0	0	0	0
9	1162	25477.71	3025.48	1936.31	105.28	8917.2	4777.07	509.55	5.26	15923.57	3025.48	713.38	0	0	0	0	0
9	1163	20382.17	1273.89	1375.8	247.41	3184.71	3503.18	687.9	47.38	0	159.24	305.73	0	0	0	127.39	0
9	1164	23566.88	4458.6	1707.01	15.79	12738.85	3662.42	738.85	0	0	0	76.43	0	0	0	101.91	5.26
9	1165	48407.64	3662.42	2140.13	210.56	0	318.47	1528.66	5.26	1273.89	477.71	0	0	4458.6	0	76.43	0
9	1181	49044.59	4936.31	2191.08	68.43	2547.77	2388.54	2012.74	5.26	3184.71	477.71	76.43	0	0	0	76.43	0
9	1194	28025.48	4777.07	1681.53	105.28	12738.85	2229.3	840.76	15.79	0	0	0	0	0	159.24	152.87	0
10	314	24840.76	1910.83	1910.83	463.23	636.94	955.41	917.2	0	4458.6	5095.54	535.03	0	0	0	25.48	0

Compt No.	TSP No.	Sundri seedling	Sundri sapling	Sundri pole	Sundri tree	Gewa seedling	Gewa sapling	Gewa pole	Gewa tree	Goran seedling	Goran sapling	Goran pole	Goran tree	Amur seedling	Amur sapling	Amur pole	Amur tree
10	315	34394.9	3980.89	2700.64	131.6	12738.85	1751.59	1707.01	36.85	7643.31	6210.19	3363.06	0	2547.77	159.24	0	0
10	316	150318.5	9076.43	4509.55	236.88	20382.17	955.41	3312.1	63.17	3821.66	1592.36	76.43	0	1910.83	477.71	636.94	0
10	317	41401.27	4936.31	2802.55	468.5	3821.66	318.47	560.51	5.26	0	0	229.3	0	3821.66	636.94	203.82	0
10	318	35031.85	4299.36	1732.48	205.3	26751.59	3503.18	1044.59	57.9	10191.08	2547.77	76.43	0	636.94	318.47	50.96	0
10	319	42675.16	3025.48	1324.84	126.34	15286.62	636.94	968.15	26.32	2547.77	796.18	50.96	0	15923.57	0	0	0
10	338	27388.54	955.41	1248.41	157.92	2547.77	159.24	178.34	0	0	477.71	101.91	0	2547.77	1433.12	407.64	0
10	339	8917.2	636.94	1426.75	136.86	69426.75	5254.78	6216.56	0	0	0	0	0	0	0	0	0
10	340	28662.42	2866.24	1248.41	89.49	3821.66	1433.12	687.9	0	0	0	0	0	0	0	0	0
10	341	52866.24	10668.79	3719.75	263.2	19108.28	2070.06	1808.92	0	0	0	0	0	636.94	318.47	0	0
10	342	17834.39	2070.06	1299.36	415.86	0	0	25.48	0	0	0	0	0	636.94	1114.65	280.25	5.26
10	1182	74522.29	2388.54	2700.64	163.18	636.94	159.24	917.2	0	3821.66	1273.89	636.94	0	8917.2	955.41	509.55	0
10	1183	12101.91	477.71	1808.92	247.41	636.94	1273.89	1834.39	10.53	1273.89	2707.01	76.43	0	636.94	0	0	0
10	1184	109554.1	955.41	1197.45	168.45	30573.25	1910.83	3592.36	15.79	20382.17	3025.48	764.33	0	0	0	25.48	0
10	1185	34394.9	1273.89	2292.99	94.75	1910.83	477.71	3541.4	52.64	3184.71	3662.42	458.6	5.26	636.94	0	76.43	0
10	1190	36305.73	3821.66	1452.23	352.69	2547.77	955.41	203.82	10.53	0	0	0	0	1273.89	1751.59	25.48	0
10	1191	19108.28	477.71	1808.92	63.17	636.94	636.94	3490.45	0	0	3184.71	0	0	0	0	0	0
10	1192	27388.54	3343.95	2369.43	136.86	3821.66	636.94	611.46	10.53	0	0	0	0	3184.71	796.18	50.96	0
10	1193	33121.02	4140.13	2114.65	110.54	18471.34	955.41	484.08	5.26	0	0	0	0	0	0	0	0
11	323	21656.05	1910.83	2089.17	526.4	0	0	458.6	73.7	0	0	0	0	0	0	152.87	0
11	1132	15923.57	2388.54	815.29	36.85	14649.68	3503.18	1019.11	0	10191.08	2229.3	636.94	0	0	318.47	0	0
11	1133	44585.99	5891.72	2853.5	105.28	10828.03	1910.83	662.42	0	4458.6	796.18	229.3	0	0	0	25.48	0
11	1134	17197.45	5573.25	2394.9	57.9	636.94	159.24	1273.89	5.26	636.94	1751.59	0	0	0	0	25.48	0
11	1145	7006.37	1592.36	1070.06	47.38	0	636.94	2165.61	0	3821.66	1114.65	76.43	0	0	0	0	0
11	1146	15923.57	1910.83	2012.74	157.92	1273.89	477.71	815.29	5.26	1273.89	318.47	25.48	0	0	477.71	203.82	0
11	1147	37579.62	2866.24	2522.29	157.92	0	159.24	535.03	21.06	0	955.41	203.82	0	636.94	0	127.39	0
11	1148	66242.04	5573.25	3261.15	42.11	13375.8	1273.89	636.94	0	12101.91	2547.77	280.25	0	0	0	0	0
11	1166	62420.38	2547.77	1757.96	21.06	7006.37	1592.36	1019.11	5.26	2547.77	3503.18	76.43	0	636.94	477.71	738.85	0
11	1177	17197.45	3025.48	2573.25	221.09	4458.6	796.18	356.69	0	0	0	0	0	3184.71	318.47	50.96	0
11	1178	10191.08	1910.83	917.2	115.81	7643.31	3980.89	7031.85	0	14012.74	5732.48	1452.23	0	0	0	0	0
11	1195	70700.64	9554.14	1528.66	0	0	0	382.17	0	1273.89	0	0	0	0	318.47	101.91	0
11	1196	70063.69	5095.54	2853.5	110.54	0	159.24	764.33	5.26	0	0	203.82	0	636.94	159.24	50.96	0
11	1197	33121.02	4140.13	2242.04	215.82	636.94	477.71	662.42	0	0	0	0	0	636.94	318.47	0	0
11	1198	28662.42	2070.06	2165.61	231.62	636.94	0	815.29	0	0	0	0	0	636.94	636.94	101.91	0

Compt No.	TSP No.	Sundri seedling	Sundri sapling	Sundri pole	Sundri tree	Gewa seedling	Gewa sapling	Gewa pole	Gewa tree	Goran seedling	Goran sapling	Goran pole	Goran tree	Amur seedling	Amur sapling	Amur pole	Amur tree
12A	336	27388.54	1592.36	1019.11	126.34	21019.11	2388.54	535.03	0	0	0	0	0	636.94	477.71	0	0
12A	337	17834.39	2229.3	1350.32	168.45	6369.43	1910.83	535.03	21.06	8280.25	5732.48	25.48	0	0	0	0	0
12A	351	73248.41	4936.31	3006.37	326.37	14649.68	1114.65	1070.06	5.26	636.94	477.71	76.43	0	2547.77	0	0	0
12A	352	62420.38	1751.59	1248.41	205.3	6369.43	1910.83	942.68	0	0	0	0	0	0	0	0	0
12A	373	56687.9	2866.24	662.42	78.96	6369.43	1751.59	968.15	10.53	0	0	0	0	0	318.47	0	0
12A	374	77707.01	1751.59	993.63	263.2	1273.89	159.24	229.3	0	1910.83	796.18	101.91	0	1273.89	636.94	178.34	0
12B	320	50318.47	3025.48	1605.1	142.13	1273.89	1433.12	1528.66	5.26	3184.71	796.18	101.91	0	1273.89	318.47	229.3	0
12B	332	69426.75	5732.48	1783.44	26.32	5732.48	318.47	993.63	57.9	636.94	477.71	0	0	636.94	0	0	0
12B	333	67515.92	7165.61	2267.52	89.49	8280.25	1910.83	1452.23	15.79	5095.54	1910.83	382.17	0	0	0	0	0
12B	334	57961.78	3503.18	2191.08	152.66	2547.77	636.94	993.63	0	0	14968.15	254.78	0	1273.89	477.71	254.78	0
12B	335	29936.31	2388.54	3031.85	210.56	0	318.47	484.08	52.64	0	0	0	0	636.94	159.24	0	0
12B	353	27388.54	1273.89	509.55	5.26	11464.97	3184.71	5222.93	15.79	0	0	0	0	636.94	0	0	0
12B	354	108280.3	2866.24	1732.48	94.75	7006.37	318.47	891.72	21.06	4458.6	477.71	0	0	1273.89	477.71	25.48	0
12B	355	38216.56	5414.01	1452.23	78.96	1910.83	0	611.46	15.79	0	1114.65	407.64	0	0	0	25.48	0
12B	356	25477.71	3503.18	1503.18	57.9	14649.68	3503.18	1019.11	21.06	3821.66	2707.01	203.82	0	636.94	477.71	25.48	0
12B	369	64968.15	6210.19	1885.35	184.24	636.94	1751.59	2343.95	5.26	0	0	50.96	0	0	0	0	0
12B	370	49681.53	2707.01	2063.69	100.02	3821.66	1114.65	1605.1	26.32	0	0	25.48	0	0	0	0	0
12B	371	39490.45	2229.3	1910.83	68.43	10828.03	1273.89	535.03	0	0	1273.89	254.78	0	0	0	0	0
12B	372	41401.27	2229.3	1630.57	184.24	4458.6	955.41	662.42	0	0	0	0	0	6369.43	955.41	356.69	0
13	392	50318.47	3025.48	1350.32	136.86	0	0	331.21	10.53	0	0	0	0	0	477.71	0	0
13	393	70700.64	1751.59	3057.32	36.85	0	0	2216.56	0	5095.54	3343.95	280.25	0	636.94	0	0	0
13	410	23566.88	6210.19	1324.84	152.66	3821.66	159.24	815.29	21.06	0	1433.12	50.96	0	0	955.41	203.82	0
13	411	21656.05	2229.3	1146.5	510.61	0	159.24	356.69	0	0	0	0	0	4458.6	2388.54	178.34	0
13	426	5732.48	159.24	178.34	189.5	1273.89	318.47	127.39	0	0	0	0	0	0	0	0	0
13	427	5095.54	1273.89	891.72	726.43	7006.37	2388.54	152.87	0	0	0	0	0	0	159.24	101.91	0
13	443	84713.38	2547.77	3745.22	157.92	31847.13	477.71	560.51	0	636.94	318.47	25.48	0	0	0	0	0
13	444	42038.22	1592.36	1426.75	300.05	1273.89	318.47	1070.06	5.26	0	0	0	0	0	1273.89	178.34	0
13	445	23566.88	1114.65	1222.93	389.54	0	159.24	127.39	0	0	0	0	0	0	0	25.48	0
13	463	31847.13	2866.24	942.68	226.35	636.94	1592.36	535.03	5.26	0	0	0	0	1273.89	2547.77	50.96	0
13	464	80891.72	4458.6	1146.5	200.03	0	477.71	2292.99	0	636.94	477.71	101.91	0	0	318.47	101.91	0
13	465	60509.55	1273.89	1707.01	115.81	1273.89	636.94	1401.27	0	2547.77	3343.95	25.48	0	0	0	0	0
13	475	40764.33	5573.25	2649.68	357.95	636.94	318.47	764.33	5.26	0	0	25.48	0	0	796.18	25.48	0
13	476	39490.45	2707.01	1630.57	300.05	5095.54	636.94	789.81	5.26	0	0	0	0	0	0	0	0

Compt No.	TSP No.	Sundri seedling	Sundri sapling	Sundri pole	Sundri tree	Gewa seedling	Gewa sapling	Gewa pole	Gewa tree	Goran seedling	Goran sapling	Goran pole	Goran tree	Amur seedling	Amur sapling	Amur pole	Amur tree
13	477	77707.01	4777.07	1146.5	205.3	0	3025.48	1248.41	0	2547.77	477.71	0	0	0	0	0	0
13	494	104458.6	11783.44	3210.19	500.08	636.94	318.47	1350.32	0	0	0	0	0	1273.89	636.94	280.25	0
13	495	81528.66	4936.31	2598.73	421.12	1273.89	318.47	840.76	10.53	0	0	0	0	1273.89	636.94	942.68	0
13	501	18471.34	3025.48	1273.89	110.54	0	0	968.15	0	0	0	0	0	0	0	50.96	0
13	502	9554.14	2866.24	764.33	310.58	0	318.47	585.99	15.79	0	0	0	0	0	318.47	203.82	0
14	391	43949.04	2547.77	1936.31	147.39	14012.74	0	942.68	5.26	14012.74	3025.48	560.51	0	0	0	0	0
14	412	87898.09	2388.54	1273.89	373.74	3821.66	0	713.38	10.53	0	0	0	0	636.94	477.71	178.34	0
14	413	128025.5	3184.71	662.42	194.77	10828.03	1273.89	2496.82	31.58	8917.2	477.71	0	0	2547.77	636.94	101.91	0
14	414	49681.53	5095.54	2828.03	273.73	26114.65	1273.89	1452.23	26.32	0	0	0	0	1273.89	636.94	433.12	0
14	424	124840.8	8280.25	1987.26	163.18	25477.71	3503.18	1401.27	36.85	0	0	0	0	1273.89	636.94	101.91	0
14	425	75159.24	4936.31	1146.5	300.05	15286.62	2707.01	2471.34	10.53	0	0	0	0	636.94	318.47	25.48	0
14	446	14012.74	1114.65	1273.89	15.79	7006.37	5891.72	1834.39	0	0	0	0	0	0	0	0	0
14	447	119108.3	8280.25	1324.84	263.2	13375.8	2070.06	1426.75	31.58	0	0	0	0	1910.83	3025.48	254.78	0
14	448	71974.52	10350.32	1477.71	189.5	75796.18	4140.13	1783.44	47.38	0	0	0	0	636.94	477.71	0	0
14	460	49044.59	4458.6	1579.62	263.2	0	796.18	305.73	5.26	0	0	0	0	1273.89	159.24	50.96	0
14	461	28662.42	3343.95	1019.11	100.02	3821.66	318.47	1375.8	21.06	4458.6	6687.9	229.3	0	0	0	25.48	0
14	462	59235.67	6050.96	1273.89	500.08	0	0	687.9	15.79	0	0	0	0	1910.83	477.71	382.17	0
14	479	56050.96	7324.84	1681.53	336.9	20382.17	2866.24	789.81	31.58	0	0	0	0	5095.54	1114.65	203.82	0
15	348	51592.36	6528.66	2522.29	463.23	57324.84	2866.24	1197.45	0	0	0	0	0	1910.83	796.18	101.91	0
15	349	87261.15	3503.18	1630.57	310.58	9554.14	1273.89	1605.1	15.79	0	0	50.96	0	636.94	0	127.39	0
15	350	91082.8	2707.01	1044.59	373.74	7643.31	1751.59	2292.99	5.26	2547.77	796.18	76.43	0	0	0	0	0
15	375	84713.38	4140.13	2012.74	278.99	35668.79	5573.25	2496.82	15.79	0	0	0	0	1273.89	0	0	0
15	376	64968.15	3821.66	1452.23	242.14	43949.04	2229.3	1707.01	15.79	17197.45	3025.48	76.43	0	1273.89	318.47	382.17	0
15	377	48407.64	4936.31	2292.99	400.06	6369.43	1433.12	1044.59	0	0	0	0	0	636.94	318.47	50.96	0
15	378	66242.04	7165.61	2598.73	468.5	11464.97	2229.3	1350.32	0	0	318.47	203.82	0	3184.71	318.47	127.39	0
15	387	129936.3	2229.3	1605.1	336.9	0	955.41	1732.48	26.32	0	159.24	0	0	0	0	152.87	0
15	388	88535.03	5414.01	2343.95	405.33	11464.97	1273.89	305.73	0	0	0	0	0	3821.66	955.41	305.73	5.26
15	389	71337.58	4777.07	2114.65	410.59	6369.43	955.41	738.85	26.32	0	0	0	0	636.94	955.41	50.96	0
15	390	71337.58	955.41	1070.06	242.14	2547.77	0	2955.41	5.26	7006.37	1114.65	0	0	0	477.71	76.43	0
15	414	49681.53	5095.54	2828.03	273.73	26114.65	1273.89	1452.23	26.32	0	0	0	0	1273.89	636.94	433.12	0
15	415	94904.46	8917.2	1630.57	252.67	26114.65	3503.18	1299.36	15.79	0	0	0	0	3184.71	159.24	25.48	0
15	421	40764.33	7802.55	1197.45	210.56	59235.67	5254.78	1579.62	78.96	0	0	0	0	1910.83	796.18	178.34	0
15	422	63694.27	9713.38	1375.8	205.3	13375.8	3343.95	891.72	42.11	8917.2	2229.3	76.43	0	1273.89	477.71	50.96	0

Compt No.	TSP No.	Sundri seedling	Sundri sapling	Sundri pole	Sundri tree	Gewa seedling	Gewa sapling	Gewa pole	Gewa tree	Goran seedling	Goran sapling	Goran pole	Goran tree	Amur seedling	Amur sapling	Amur pole	Amur tree
16	106	15923.57	1751.59	1044.59	110.54	4458.6	796.18	789.81	0	4458.6	3662.42	662.42	0	2547.77	318.47	127.39	0
16	107	32484.08	3821.66	1834.39	310.58	5095.54	318.47	662.42	15.79	0	159.24	0	0	1273.89	0	101.91	0
16	146	22292.99	1592.36	1630.57	63.17	1273.89	0	968.15	10.53	6369.43	1433.12	203.82	0	0	0	0	0
16	147	12101.91	1114.65	2394.9	394.8	0	0	942.68	21.06	0	0	0	0	7006.37	955.41	433.12	0
16	148	20382.17	159.24	280.25	15.79	27388.54	2388.54	3745.22	26.32	4458.6	1114.65	101.91	0	3821.66	0	0	0
16	345	32484.08	2388.54	1783.44	52.64	1910.83	0	280.25	21.06	4458.6	2388.54	101.91	0	636.94	159.24	25.48	0
16	379	10828.03	159.24	280.25	5.26	6369.43	796.18	4101.91	5.26	4458.6	3025.48	152.87	0	1273.89	0	0	0
16	380	19108.28	3184.71	1910.83	136.86	8917.2	2229.3	1095.54	31.58	4458.6	796.18	560.51	0	0	0	0	0
16	381	11464.97	3184.71	1554.14	105.28	10191.08	2070.06	1452.23	10.53	1910.83	318.47	229.3	0	0	0	0	0
16	382	14012.74	3343.95	2216.56	121.07	1273.89	1273.89	815.29	0	8280.25	2866.24	1503.18	0	0	0	0	0
16	383	17834.39	2547.77	2191.08	136.86	17197.45	2707.01	1273.89	15.79	0	0	0	0	0	0	0	0
16	384	24203.82	1433.12	2547.77	131.6	0	0	1095.54	10.53	0	0	0	0	0	0	25.48	0
16	385	21019.11	3980.89	1528.66	126.34	7006.37	1751.59	891.72	5.26	11464.97	3503.18	1656.05	0	0	0	0	0
16	386	48407.64	159.24	152.87	236.88	636.94	1273.89	1375.8	10.53	1910.83	1592.36	0	0	0	0	127.39	0
16	416	113375.8	2707.01	280.25	210.56	1910.83	477.71	2012.74	10.53	1910.83	1273.89	0	0	636.94	796.18	229.3	0
16	417	10828.03	2388.54	2267.52	278.99	0	0	585.99	21.06	0	0	0	0	5095.54	796.18	458.6	0
16	418	33757.96	3343.95	1910.83	84.22	7006.37	1910.83	2242.04	26.32	0	0	0	0	0	0	0	0
16	419	36942.68	5891.72	2191.08	310.58	1273.89	318.47	560.51	0	0	0	0	0	2547.77	1592.36	331.21	0
16	420	20382.17	2388.54	1477.71	215.82	17197.45	636.94	509.55	10.53	0	0	50.96	0	0	0	0	0
16	453	57324.84	3025.48	2267.52	431.65	7006.37	636.94	407.64	15.79	0	0	0	0	2547.77	318.47	407.64	0
17	21	4458.6	1592.36	101.91	0	0	0	25.48	0	14649.68	2388.54	127.39	0	0	636.94	0	0
17	22	37579.62	2388.54	2394.9	326.37	1910.83	318.47	178.34	0	636.94	318.47	0	0	636.94	318.47	127.39	0
17	23	13375.8	3184.71	687.9	57.9	12101.91	5095.54	1452.23	47.38	10828.03	3184.71	382.17	0	0	0	0	0
17	24	9554.14	2866.24	0	0	8280.25	1592.36	331.21	0	0	0	0	0	7643.31	636.94	0	0
17	25	0	0	76.43	0	1273.89	159.24	2904.46	26.32	7643.31	4299.36	254.78	0	636.94	0	76.43	0
17	63	22292.99	3662.42	687.9	105.28	8917.2	4140.13	2445.86	10.53	6369.43	4458.6	203.82	0	0	0	0	0
17	64	20382.17	1751.59	1146.5	89.49	1273.89	3343.95	3541.4	42.11	1273.89	1433.12	229.3	0	1910.83	1273.89	458.6	0
17	65	18471.34	2229.3	789.81	5.26	1910.83	1114.65	2012.74	31.58	2547.77	2229.3	178.34	0	0	0	0	0
17	72	636.94	0	382.17	0	1910.83	318.47	229.3	31.58	8917.2	4458.6	1248.41	0	0	318.47	0	0
17	313	22929.94	3184.71	2547.77	252.67	10191.08	2388.54	993.63	10.53	0	0	127.39	0	0	0	127.39	0
17	343	25477.71	796.18	1044.59	52.64	8917.2	3980.89	891.72	47.38	3821.66	2707.01	178.34	0	0	0	0	0
17	344	10828.03	1433.12	1579.62	273.73	3184.71	955.41	636.94	10.53	1910.83	955.41	101.91	0	2547.77	477.71	152.87	0
17	346	44585.99	1592.36	2038.22	89.49	2547.77	0	127.39	5.26	0	1114.65	76.43	0	636.94	0	0	0

Compt No.	TSP No.	Sundri seedling	Sundri sapling	Sundri pole	Sundri tree	Gewa seedling	Gewa sapling	Gewa pole	Gewa tree	Goran seedling	Goran sapling	Goran pole	Goran tree	Amur seedling	Amur sapling	Amur pole	Amur tree
17	347	43312.1	3025.48	1477.71	394.8	0	0	458.6	78.96	0	0	0	0	7006.37	3184.71	50.96	0
17	958	38853.5	955.41	2216.56	384.27	636.94	1592.36	1452.23	5.26	0	0	76.43	0	3821.66	0	0	0
17	959	7006.37	796.18	713.38	42.11	3184.71	796.18	458.6	0	0	955.41	127.39	0	0	0	0	0
17	960	0	0	0	0	636.94	1273.89	2598.73	0	0	0	76.43	0	0	0	0	0
17	961	5095.54	4140.13	1783.44	268.46	636.94	318.47	662.42	15.79	1910.83	477.71	203.82	0	1910.83	1592.36	101.91	0
17	1156	0	1114.65	203.82	15.79	20382.17	5732.48	3388.54	10.53	0	0	25.48	0	0	0	0	0
17	1157	3184.71	2547.77	993.63	352.69	0	318.47	356.69	21.06	0	0	0	0	0	955.41	0	0
17	1186	7643.31	318.47	305.73	0	19745.22	4777.07	2828.03	21.06	10191.08	5095.54	1222.93	0	0	0	0	0
17	1187	26751.59	5573.25	1961.78	110.54	1273.89	1592.36	535.03	0	0	2070.06	280.25	0	10191.08	1592.36	356.69	0
17	1188	24840.76	1592.36	891.72	47.38	8917.2	1592.36	2471.34	0	3821.66	1910.83	101.91	0	0	0	0	0
17	1189	37579.62	3662.42	1197.45	121.07	9554.14	796.18	1070.06	15.79	1273.89	0	305.73	0	0	0	0	0
18	779	636.94	318.47	1528.66	73.7	636.94	2229.3	5401.27	26.32	10828.03	6847.13	738.85	0	0	0	0	0
18	780	4458.6	796.18	866.24	157.92	1273.89	796.18	1019.11	10.53	6369.43	1592.36	127.39	0	0	0	0	0
18	811	1273.89	159.24	1171.97	357.95	0	0	1426.75	15.79	0	0	331.21	0	0	0	0	0
18	812	0	1433.12	1019.11	100.02	636.94	1910.83	1299.36	0	1910.83	4777.07	0	0	0	0	0	0
18	813	11464.97	2388.54	1477.71	294.73	4458.6	1751.59	2292.99	21.06	7643.31	3662.42	433.12	0	636.94	0	50.96	0
18	814	16560.51	4299.36	509.55	105.28	22292.99	5732.48	2140.13	5.26	21019.11	10350.32	840.76	0	0	0	0	0
18	815	19745.22	9076.43	1681.53	152.66	15923.57	7165.61	1324.84	0	0	0	585.99	0	0	0	0	0
18	816	1273.89	796.18	458.6	0	1273.89	318.47	2242.04	0	9554.14	3025.48	407.64	5.26	0	0	0	0
18	817	10828.03	3821.66	2165.61	26.32	636.94	318.47	509.55	5.26	1273.89	1910.83	585.99	0	0	0	0	0
18	841	6369.43	3184.71	1630.57	78.96	12101.91	2866.24	1171.97	5.26	7643.31	1592.36	127.39	0	0	0	25.48	0
18	842	1910.83	1114.65	1808.92	178.98	8280.25	318.47	1146.5	5.26	0	1273.89	636.94	0	0	0	0	0
18	843	636.94	955.41	1070.06	73.7	0	318.47	993.63	0	3184.71	1114.65	127.39	0	0	0	0	0
18	844	12101.91	2388.54	1605.1	142.13	636.94	7165.61	382.17	0	8280.25	6687.9	687.9	5.26	0	159.24	0	0
18	845	0	0	305.73	0	0	1592.36	3006.37	15.79	7006.37	14649.68	229.3	0	0	0	0	0
18	846	0	0	280.25	0	0	1433.12	3566.88	15.79	7643.31	11305.73	254.78	0	0	0	0	0
18	847	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	848	2547.77	636.94	636.94	5.26	7006.37	2707.01	2114.65	42.11	19745.22	9554.14	1579.62	0	0	0	0	0
18	849	5095.54	477.71	917.2	131.6	14649.68	2388.54	1681.53	10.53	1910.83	1751.59	280.25	0	636.94	0	0	0
18	850	6369.43	2707.01	535.03	78.96	3821.66	2866.24	4076.43	5.26	636.94	3980.89	764.33	0	0	0	0	0
18	851	5095.54	955.41	840.76	21.06	1273.89	477.71	2547.77	15.79	15923.57	14331.21	305.73	0	0	0	0	0
18	852	5732.48	2866.24	2089.17	142.13	1273.89	1592.36	866.24	10.53	0	318.47	50.96	0	5095.54	0	25.48	0
18	853	0	0	407.64	0	10828.03	4617.83	3770.7	0	14649.68	5095.54	509.55	0	0	0	0	0

Compt No.	TSP No.	Sundri seedling	Sundri sapling	Sundri pole	Sundri tree	Gewa seedling	Gewa sapling	Gewa pole	Gewa tree	Goran seedling	Goran sapling	Goran pole	Goran tree	Amur seedling	Amur sapling	Amur pole	Amur tree
18	877	6369.43	1114.65	815.29	84.22	3821.66	3662.42	5375.8	10.53	0	3343.95	178.34	0	0	0	0	0
18	878	1910.83	796.18	662.42	31.58	15286.62	4777.07	1757.96	0	6369.43	8598.73	382.17	0	636.94	477.71	0	0
18	879	1273.89	0	1452.23	157.92	1910.83	159.24	764.33	0	0	0	0	0	636.94	318.47	0	0
18	880	14012.74	1114.65	1961.78	0	2547.77	1114.65	2191.08	10.53	15286.62	14968.15	356.69	0	0	0	0	0
18	881	0	0	25.48	0	636.94	318.47	1121.02	0	0	0	0	0	0	0	0	0
18	882	8280.25	2229.3	1910.83	168.45	636.94	159.24	458.6	5.26	1273.89	1273.89	0	0	0	0	0	0
18	883	1910.83	955.41	2547.77	284.26	4458.6	636.94	815.29	15.79	3184.71	2866.24	509.55	0	1273.89	0	0	0
18	884	3184.71	636.94	968.15	336.9	1910.83	159.24	1146.5	31.58	3821.66	4299.36	1579.62	0	1273.89	955.41	101.91	0
18	885	2547.77	636.94	0	0	1910.83	796.18	636.94	0	5095.54	2229.3	0	0	0	0	0	0
18	887	12101.91	5414.01	1605.1	110.54	8280.25	3184.71	484.08	5.26	2547.77	1433.12	76.43	0	0	0	0	0
18	888	0	318.47	764.33	273.73	3821.66	1910.83	1452.23	0	0	0	127.39	0	0	0	50.96	0
18	889	0	0	254.78	0	10828.03	5573.25	3464.97	31.58	28025.48	18312.1	968.15	0	0	0	0	0
18	892	1273.89	477.71	1656.05	136.86	0	0	1426.75	36.85	0	2707.01	356.69	0	0	0	0	0
18	919	21019.11	6369.43	2471.34	278.99	9554.14	1751.59	713.38	15.79	3184.71	6050.96	585.99	0	0	0	101.91	0
18	920	5732.48	796.18	1324.84	42.11	7643.31	3503.18	1910.83	21.06	8917.2	6847.13	458.6	0	636.94	0	101.91	0
19	886	3184.71	1433.12	560.51	136.86	7643.31	3343.95	1554.14	5.26	3184.71	0	50.96	0	3184.71	318.47	0	0
19	890	5732.48	318.47	840.76	94.75	7006.37	1910.83	1757.96	15.79	0	1592.36	76.43	0	636.94	0	0	0
19	891	2547.77	796.18	458.6	168.45	0	0	50.96	0	636.94	477.71	0	0	0	0	50.96	0
19	915	0	2388.54	356.69	10.53	3821.66	5095.54	1834.39	21.06	7006.37	5732.48	866.24	0	0	0	0	0
19	916	0	0	0	0	636.94	159.24	2624.2	0	0	0	0	0	0	0	0	0
19	917	0	0	738.85	15.79	16560.51	2229.3	1910.83	0	27388.54	12898.09	280.25	0	0	0	0	0
19	918	7643.31	636.94	1401.27	247.41	4458.6	1273.89	662.42	0	0	0	0	0	6369.43	0	0	0
19	921	7006.37	5254.78	1681.53	152.66	1273.89	477.71	280.25	15.79	3821.66	6210.19	713.38	0	0	0	50.96	0
19	922	5732.48	636.94	891.72	5.26	0	0	407.64	5.26	19745.22	8280.25	458.6	0	0	0	0	0
19	923	2547.77	636.94	1273.89	352.69	8917.2	2070.06	382.17	36.85	636.94	2229.3	101.91	0	0	0	25.48	0
19	924	3184.71	2070.06	993.63	89.49	1273.89	1751.59	1961.78	0	1273.89	3662.42	76.43	0	5095.54	0	0	0
19	925	11464.97	159.24	585.99	42.11	5732.48	1114.65	1834.39	0	11464.97	7961.78	229.3	0	0	0	0	0
19	926	1273.89	318.47	840.76	194.77	3184.71	477.71	1656.05	5.26	0	4617.83	331.21	0	0	0	25.48	0
19	927	10191.08	1273.89	1248.41	331.63	5095.54	1751.59	611.46	0	3821.66	1910.83	229.3	0	0	0	0	0
19	928	636.94	796.18	433.12	52.64	4458.6	2707.01	2063.69	0	6369.43	7165.61	866.24	0	0	0	0	0
19	953	0	0	560.51	84.22	3821.66	955.41	866.24	26.32	636.94	2707.01	636.94	0	0	0	76.43	0
19	954	0	0	687.9	215.82	0	159.24	1095.54	42.11	3821.66	0	50.96	5.26	0	0	0	0
19	955	1273.89	796.18	1299.36	89.49	0	1273.89	1605.1	0	636.94	0	50.96	0	0	0	0	0

Compt No.	TSP No.	Sundri seedling	Sundri sapling	Sundri pole	Sundri tree	Gewa seedling	Gewa sapling	Gewa pole	Gewa tree	Goran seedling	Goran sapling	Goran pole	Goran tree	Amur seedling	Amur sapling	Amur pole	Amur tree
19	956	636.94	796.18	942.68	342.16	0	1592.36	1121.02	36.85	0	318.47	25.48	0	0	0	0	0
19	957	63694.27	11146.5	1044.59	194.77	21019.11	2866.24	789.81	52.64	0	0	0	0	0	159.24	0	0
19	963	0	318.47	1324.84	394.8	0	159.24	1707.01	10.53	0	0	407.64	0	636.94	159.24	25.48	0
19	964	0	0	76.43	15.79	6369.43	4299.36	3184.71	0	8280.25	8917.2	1222.93	0	0	0	0	0
20	17	3184.71	1751.59	484.08	89.49	636.94	955.41	3439.49	5.26	5095.54	4617.83	458.6	0	0	0	0	0
20	18	9554.14	2707.01	1197.45	200.03	7006.37	2070.06	968.15	26.32	1273.89	1592.36	0	0	0	0	0	0
20	19	5095.54	3821.66	1222.93	184.24	7643.31	1592.36	968.15	15.79	3821.66	796.18	127.39	0	0	0	127.39	0
20	20	0	0	254.78	152.66	1910.83	477.71	942.68	5.26	3184.71	1273.89	25.48	0	0	0	0	0
20	26	5732.48	0	535.03	68.43	636.94	0	1503.18	21.06	12101.91	1751.59	127.39	0	0	159.24	0	0
20	27	9554.14	1273.89	1350.32	289.52	636.94	0	433.12	5.26	1273.89	1433.12	0	0	1910.83	318.47	178.34	0
20	28	3821.66	1910.83	687.9	131.6	1910.83	636.94	3235.67	0	4458.6	5891.72	178.34	0	0	0	0	0
20	29	1910.83	2229.3	1630.57	163.18	2547.77	1592.36	611.46	26.32	0	0	0	0	0	0	0	0
20	30	0	1273.89	535.03	147.39	0	477.71	2165.61	5.26	636.94	4140.13	585.99	0	0	318.47	636.94	0
20	58	0	0	280.25	142.13	636.94	0	2369.43	21.06	636.94	0	0	0	0	0	0	0
20	59	636.94	0	101.91	100.02	0	1433.12	1299.36	5.26	0	0	50.96	0	0	0	0	0
20	60	0	159.24	1401.27	210.56	636.94	318.47	713.38	0	0	0	76.43	0	1910.83	318.47	50.96	0
20	61	0	0	738.85	247.41	0	318.47	942.68	10.53	0	0	25.48	0	0	0	50.96	0
20	62	0	0	738.85	268.46	2547.77	955.41	1222.93	10.53	0	0	0	0	0	0	0	0
20	66	0	0	1070.06	121.07	0	2070.06	3261.15	26.32	0	0	0	0	0	0	25.48	0
20	67	0	1592.36	713.38	173.71	636.94	1592.36	2165.61	5.26	9554.14	1592.36	76.43	0	0	0	0	0
20	68	0	636.94	1452.23	226.35	636.94	0	382.17	15.79	2547.77	636.94	0	0	636.94	477.71	229.3	0
20	69	0	636.94	509.55	94.75	0	0	968.15	10.53	3184.71	2866.24	203.82	0	636.94	1273.89	127.39	0
20	102	2547.77	16082.8	1044.59	189.5	0	159.24	178.34	5.26	8917.2	4299.36	356.69	0	0	955.41	331.21	0
20	103	3184.71	636.94	713.38	178.98	1273.89	636.94	1095.54	5.26	0	0	0	0	0	0	25.48	0
20	104	0	318.47	866.24	300.05	0	0	331.21	0	0	0	0	0	0	0	178.34	0
20	105	2547.77	1910.83	2420.38	36.85	0	0	433.12	10.53	5095.54	5891.72	636.94	0	0	0	0	0
20	108	1273.89	318.47	764.33	226.35	0	1592.36	636.94	15.79	0	0	0	0	3821.66	159.24	433.12	0
20	109	0	0	1070.06	147.39	0	0	178.34	0	0	0	0	0	0	0	25.48	0
20	110	1273.89	318.47	229.3	110.54	1273.89	0	25.48	5.26	0	0	0	0	0	318.47	50.96	0
20	962	10828.03	2229.3	1070.06	194.77	0	0	152.87	0	0	0	0	0	0	0	0	0
21	423	52866.24	5891.72	1222.93	157.92	42675.16	5891.72	1299.36	94.75	0	0	0	5.26	0	0	50.96	0
21	449	45859.87	7165.61	1656.05	200.03	1910.83	1273.89	560.51	0	0	0	0	0	5732.48	796.18	254.78	0
21	450	160509.6	4617.83	1528.66	336.9	8280.25	2070.06	1299.36	26.32	0	0	0	0	1273.89	0	0	0

Compt No.	TSP No.	Sundri seedling	Sundri sapling	Sundri pole	Sundri tree	Gewa seedling	Gewa sapling	Gewa pole	Gewa tree	Goran seedling	Goran sapling	Goran pole	Goran tree	Amur seedling	Amur sapling	Amur pole	Amur tree
21	451	136942.7	8917.2	2292.99	289.52	12738.85	1751.59	1630.57	10.53	0	0	0	0	0	0	0	0
21	452	75796.18	5891.72	1452.23	394.8	5095.54	1592.36	1707.01	0	0	0	0	0	1910.83	318.47	50.96	0
21	455	22929.94	2707.01	1477.71	347.42	0	159.24	968.15	10.53	0	318.47	50.96	0	636.94	636.94	101.91	0
21	456	78980.89	3980.89	1681.53	110.54	15923.57	3343.95	1248.41	21.06	0	0	0	0	636.94	0	25.48	0
21	457	55414.01	14968.15	2471.34	221.09	15286.62	2547.77	509.55	52.64	0	0	0	0	5095.54	159.24	101.91	0
21	458	63694.27	10191.08	2114.65	242.14	12101.91	955.41	305.73	31.58	0	0	25.48	0	1273.89	477.71	25.48	0
21	459	83439.49	796.18	1070.06	278.99	0	0	713.38	10.53	0	0	0	0	0	0	0	0
21	480	41401.27	477.71	458.6	278.99	1910.83	1114.65	458.6	0	0	0	0	0	1910.83	477.71	101.91	0
21	481	74522.29	5732.48	687.9	110.54	32484.08	2707.01	2038.22	0	0	0	25.48	0	0	0	0	0
21	482	66242.04	11464.97	1477.71	115.81	35668.79	5732.48	891.72	94.75	0	0	0	0	2547.77	0	101.91	0
21	483	21019.11	3025.48	1630.57	257.94	8280.25	1910.83	280.25	10.53	0	0	0	0	0	159.24	0	0
22	488	50318.47	3025.48	968.15	142.13	0	159.24	891.72	0	0	0	0	0	636.94	0	25.48	0
22	489	43949.04	477.71	611.46	242.14	39490.45	955.41	535.03	0	0	0	0	0	0	0	127.39	10.53
22	490	51592.36	7484.08	2343.95	305.31	5732.48	1114.65	942.68	0	0	0	76.43	0	0	318.47	0	0
22	491	8280.25	2229.3	535.03	221.09	0	2229.3	1859.87	15.79	1273.89	477.71	76.43	0	0	0	25.48	0
22	505	30573.25	4777.07	1324.34	263.2	1273.89	0	636.94	0	0	0	0	0	0	1273.89	535.03	0
22	506	19106.26	159.24	560.51	236.88	0	0	152.87	0	0	0	0	0	0	0	203.82	0
22	507	5095.54	636.94	433.12	521.13	0	1114.65	433.12	0	0	0	0	0	0	0	127.39	0
22	515	93630.57	11624.2	2777.07	189.5	7006.37	636.94	738.85	126.34	0	0	0	0	1273.89	1751.59	382.17	0
22	516	21656.05	3184.71	866.24	573.77	0	159.24	1019.11	31.58	0	0	0	0	636.94	159.24	254.78	0
22	517	47133.76	8280.25	1019.11	131.6	91082.8	10987.26	2089.17	26.32	0	0	0	0	0	0	0	0
22	518	68152.87	8598.73	2089.17	168.45	17197.45	2070.06	789.81	0	0	0	0	0	1273.89	0	25.48	0
22	535	35031.85	2388.54	1044.59	315.84	0	0	1044.59	15.79	0	0	0	0	0	1433.12	433.12	0
22	536	12101.91	2388.54	611.46	342.16	1273.89	318.47	738.85	0	0	0	0	0	0	159.24	50.96	0
23	478	8280.25	1273.89	738.85	357.95	0	477.71	1019.11	10.53	636.94	0	0	0	1910.83	955.41	280.25	0
23	492	8280.25	1592.36	968.15	421.12	0	318.47	509.55	10.53	0	0	0	0	0	0	0	0
23	493	7006.37	2070.06	1019.11	384.27	0	318.47	585.99	5.26	0	0	0	0	0	0	101.91	0
23	503	41401.27	5254.78	1426.75	247.41	0	159.24	764.33	10.53	0	0	0	0	1273.89	796.18	254.78	0
23	504	33757.96	477.71	942.68	68.43	2547.77	477.71	1197.45	0	1910.83	3662.42	152.87	0	0	0	0	0
23	519	42675.16	11624.2	1452.23	168.45	8917.2	1433.12	1070.06	5.26	0	0	0	0	636.94	0	178.34	0
23	520	56687.9	10509.55	1656.05	136.86	28025.48	3184.71	866.24	42.11	0	0	0	0	7006.37	477.71	76.43	0
23	521	48407.64	4458.6	2445.86	115.81	38216.56	2229.3	1859.87	42.11	0	0	76.43	0	0	0	0	0
23	522	3821.66	2070.06	2191.08	431.65	0	159.24	560.51	5.26	0	0	0	0	0	1114.65	254.78	5.26

Compt No.	TSP No.	Sundri seedling	Sundri sapling	Sundri pole	Sundri tree	Gewa seedling	Gewa sapling	Gewa pole	Gewa tree	Goran seedling	Goran sapling	Goran pole	Goran tree	Amur seedling	Amur sapling	Amur pole	Amur tree
23	531	17197.45	2547.77	1146.5	542.19	1273.89	159.24	50.96	0	0	0	0	0	3821.66	1114.65	382.17	0
23	534	33757.96	7324.84	2878 98	189.5	1273.89	318.47	1019.11	21.06	0	0	0	0	636.94	0	178.34	0
24	466	191082.8	7006.37	1579.62	242.14	5095.54	955.41	1146.5	26.32	1273.89	1910.83	0	0	0	159.24	0	0
24	467	86624.2	1751.59	993.63	194.77	636.94	1273.89	764.33	10.53	0	0	0	0	0	0	0	0
24	468	26114.65	2229.3	2496.82	373.74	0	159.24	917.2	26.32	0	0	0	0	0	318.47	0	0
24	472	72611.46	6369.43	1375.8	178.98	636.94	636.94	636.94	26.32	6369.43	4617.83	178.34	0	0	0	0	0
24	473	59872.61	4458.6	2394.9	189.5	42675.16	1114.65	1503.18	26.32	0	2707.01	433.12	0	0	0	0	0
24	474	78343.95	9394.9	1579.62	263.2	0	636.94	968.15	5.26	0	0	0	0	636.94	0	178.34	0
24	496	91082.8	14171.97	1707.01	210.56	13375.8	636.94	1044.59	15.79	0	0	0	0	3184.71	318.47	0	0
24	497	35668.79	14012.74	2394.9	200.03	0	796.18	1121.02	5.26	1910.83	159.24	0	0	0	318.47	25.48	0
24	498	29299.36	4299.36	917.2	94.75	3184.71	1273.89	2292.99	15.79	8280.25	2388.54	50.96	0	0	0	0	0
24	499	85987.26	5414.01	2089.17	426.38	0	477.71	789.81	0	0	0	0	0	2547.77	1273.89	331.21	0
24	500	35668.79	7802.55	2089.17	168.45	1910.83	0	560.51	10.53	0	0	0	0	636.94	318.47	229.3	0
24	524	53503.18	3503.18	1401.27	257.94	7643.31	636.94	1248.41	5.26	0	0	0	0	1273.89	796.18	152.87	0
24	525	52229.3	3662.42	840.76	131.6	12738.85	1273.89	2165.61	47.38	636.94	0	50.96	0	0	0	0	0
24	526	35031.85	6528.66	1350.32	42.11	2547.77	0	1095.54	5.26	1910.83	5095.54	50.96	0	0	0	0	0
24	527	7006.37	477.71	1375.8	84.22	0	0	382.17	131.6	0	0	0	0	0	0	0	0
24	528	21656.05	2707.01	1401.27	42.11	2547.77	2388.54	1248.41	10.53	1273.89	0	203.82	0	0	0	0	0
24	554	57961.78	3343.95	1885.35	84.22	21656.05	2707.01	1936.31	10.53	1910.83	1751.59	152.87	0	0	0	0	0
25	523	105732.5	5414.01	4942.68	226.35	0	0	1273.89	47.38	0	0	0	0	0	159.24	0	0
25	529	15286.62	2707.01	917.2	210.56	3184.71	318.47	560.51	10.53	0	477.71	0	0	0	159.24	101.91	0
25	530	28025.48	2229.3	1732.48	68.43	19108.28	1751.59	713.38	0	4458.6	159.24	152.87	0	0	0	0	0
25	551	34394.9	4777.07	1783.44	73.7	636.94	318.47	636.94	5.26	0	0	0	0	0	0	0	0
25	552	48407.64	3662.42	891.72	136.86	22929.94	318.47	254.78	15.79	0	0	0	0	0	159.24	203.82	5.26
25	553	17197.45	2070.06	611.46	63.17	5095.54	1592.36	585.99	10.53	0	0	0	0	2547.77	0	0	0
25	555	17834.39	4617.83	993.63	68.43	0	0	305.73	31.58	0	0	0	0	0	0	0	0
25	556	60509.55	2388.54	1299.36	126.34	61783.44	1273.89	917.2	5.26	1273.89	636.94	0	0	0	0	0	0
25	557	0	0	458.6	47.38	0	0	815.29	26.32	0	0	0	0	0	0	0	0
25	578	61783.44	5095.54	2292.99	115.81	1910.83	159.24	331.21	26.32	0	0	0	0	0	1592.36	331.21	0
25	579	45222.93	4936.31	2496.82	268.46	1273.89	318.47	254.78	63.17	0	0	0	0	0	796.18	254.78	5.26
25	581	35031.85	8121.02	1732.48	226.35	6369.43	636.94	458.6	15.79	0	0	0	0	0	1751.59	254.78	21.06
26	532	9554.14	2388.54	1070.06	68.43	6369.43	1592.36	611.46	15.79	0	0	0	0	1910.83	0	76.43	0
26	533	26751.59	3662.42	1808.92	321.1	3184.71	1433.12	1503.18	0	0	0	0	0	0	0	0	0

Compt No.	TSP No.	Sundri seedling	Sundri sapling	Sundri pole	Sundri tree	Gewa seedling	Gewa sapling	Gewa pole	Gewa tree	Goran seedling	Goran sapling	Goran pole	Goran tree	Amur seedling	Amur sapling	Amur pole	Amur tree
26	546	97452.23	15445.86	4025.48	263.2	0	0	331.21	21.06	0	0	0	0	1273.89	2229.3	458.6	5.26
26	547	145859.9	3025.48	2624.2	105.28	1273.89	477.71	382.17	5.26	0	0	0	0	1273.89	0	0	0
26	548	7643.31	1910.83	840.76	63.17	5732.48	1433.12	891.72	42.11	0	0	0	0	1273.89	159.24	76.43	0
26	549	136305.7	4458.6	1987.26	173.71	3821.66	1273.89	1146.5	57.9	0	0	0	0	0	0	0	0
26	550	27388.54	3025.48	840.76	94.75	8917.2	1910.83	764.33	57.9	0	0	0	0	1273.89	159.24	0	0
26	559	50955.41	4617.83	2012.74	52.64	9554.14	1273.89	687.9	0	8917.2	0	0	0	0	0	0	0
26	560	43312.1	3662.42	2038.22	121.07	15923.57	1592.36	1248.41	5.26	0	0	0	0	636.94	0	0	0
26	561	72611.46	5254.78	636.94	126.34	0	0	0	5.26	0	0	0	0	2547.77	636.94	178.34	0
26	562	15923.57	3980.89	1579.62	84.22	0	0	382.17	47.38	0	0	0	0	0	159.24	0	0
26	574	66242.04	5414.01	2598.73	173.71	636.94	318.47	1554.14	21.06	0	0	0	0	0	159.24	50.96	0
27	580	63057.32	3025.48	1707.01	68.43	10191.08	318.47	560.51	10.53	0	0	0	0	2547.77	796.18	0	0
27	582	50955.41	6847.13	1375.8	110.54	19745.22	2070.06	1401.27	21.06	0	0	0	0	636.94	636.94	25.48	0
27	599	52229.3	3184.71	1401.27	294.78	636.94	318.47	305.73	36.85	0	0	0	0	0	159.24	50.96	0
27	600	73885.35	9076.43	1375.8	152.66	636.94	0	1095.54	10.53	0	0	25.48	0	1910.83	159.24	25.48	0
27	601	104458.6	5891.72	2165.61	84.22	1910.83	0	764.33	36.85	0	0	0	0	0	636.94	127.39	0
27	602	28662.42	2547.77	942.68	163.18	4458.6	636.94	535.03	47.38	1273.89	3343.95	1859.87	0	1273.89	159.24	25.48	0
27	603	255414	4617.83	1528.66	84.22	0	0	433.12	0	0	0	0	0	0	0	0	0
27	604	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	605	36305.73	3503.18	1808.92	47.38	17197.45	2388.54	1222.93	10.53	0	1114.65	76.43	0	0	0	0	0
27	606	27388.54	1273.89	611.46	26.32	3184.71	477.71	203.82	10.53	0	0	0	0	0	0	25.48	0
27	607	44585.99	5891.72	1885.35	336.9	3184.71	636.94	229.3	47.38	0	0	0	0	0	796.18	0	0
27	608	24203.82	4777.07	2089.17	300.05	7643.31	636.94	356.69	42.11	0	0	0	0	5732.48	318.47	229.3	5.26
27	623	23566.88	2547.77	1248.41	89.49	0	159.24	127.39	0	0	0	0	0	1910.83	318.47	356.69	0
27	624	24203.82	1910.83	993.63	31.58	3184.71	1751.59	331.21	5.26	0	0	0	0	1273.89	477.71	101.91	0
27	625	38216.56	5254.78	1426.75	121.07	12738.85	2866.24	484.08	0	0	0	0	0	636.94	159.24	101.91	0
28	558	12101.91	4936.31	1834.39	178.98	636.94	2388.54	1936.31	21.06	0	0	0	0	0	0	0	0
28	575	60509.55	3025.48	2624.2	78.96	0	0	203.82	15.79	0	0	0	0	1273.89	0	254.78	5.26
28	576	90445.86	3503.18	1171.97	63.17	7006.37	636.94	662.42	21.06	0	0	0	0	1910.83	636.94	25.48	0
28	577	32484.08	3821.66	2165.61	168.45	1273.89	1592.36	662.42	10.53	0	0	0	0	0	0	0	0
28	583	77070.06	9076.43	2114.65	189.5	7006.37	636.94	662.42	10.53	0	0	0	0	0	796.18	50.96	0
28	584	75159.24	7165.61	4254.78	178.98	1273.89	159.24	815.29	31.58	0	0	0	0	636.94	318.47	101.91	0
28	585	38216.56	6528.66	2420.38	131.6	6369.43	1433.12	1350.32	47.38	0	0	25.48	0	0	159.24	127.39	0
28	586	31847.13	3184.71	458.6	26.32	7643.31	4617.83	3439.49	5.26	0	0	0	0	0	0	0	0

Compt No.	TSP No.	Sundri seedling	Sundri sapling	Sundri pole	Sundri tree	Gewa seedling	Gewa sapling	Gewa pole	Gewa tree	Goran seedling	Goran sapling	Goran pole	Goran tree	Amur seedling	Amur sapling	Amur pole	Amur tree
28	598	65605.1	4777.07	1528.66	184.24	1910.83	318.47	407.64	21.06	0	0	0	0	1273.89	477.71	152.87	0
28	609	0	0	76.43	26.32	0	0	0	31.58	0	0	0	0	636.94	159.24	25.48	0
28	621	38853.5	3184.71	1401.27	136.86	32484.08	1751.59	560.51	26.32	0	0	0	0	0	0	0	0
28	622	24840.76	3662.42	917.2	31.58	16560.51	1273.89	535.03	68.43	0	0	0	0	0	0	0	0
29	253	15923.57	1273.89	2675.16	278.99	0	0	789.81	5.26	0	0	0	0	0	0	50.96	0
29	508	77070.06	318.47	764.33	205.3	0	159.24	433.12	47.38	0	0	0	0	3184.71	796.18	152.87	0
29	514	24203.82	2866.24	713.38	89.49	7643.31	796.18	407.64	36.85	2547.77	159.24	0	0	2547.77	636.94	25.48	0
29	537	14012.74	5414.01	356.69	184.24	0	0	178.34	21.06	636.94	0	0	0	636.94	318.47	76.43	57.9
29	538	27388.54	2388.54	1121.02	94.75	1273.89	0	0	5.26	0	0	0	0	636.94	636.94	356.69	0
29	543	15923.57	3662.42	662.42	136.86	2547.77	159.24	356.69	5.26	0	0	0	0	2547.77	2229.3	25.48	0
29	544	6369.43	1751.59	2598.73	268.46	0	0	76.43	5.26	0	0	0	0	1273.89	0	0	0
29	545	56687.9	4777.07	1503.18	131.6	20382.17	159.24	1503.18	0	0	0	0	0	636.94	0	25.48	0
29	565	12101.91	5254.78	1834.39	321.1	0	318.47	942.68	15.79	0	0	0	0	3184.71	0	101.91	0
29	566	51592.36	2229.3	1910.83	152.66	636.94	477.71	789.81	5.26	0	0	0	0	0	477.71	382.17	0
29	568	40127.39	3503.18	1885.35	131.6	3184.71	318.47	356.69	0	0	0	0	0	0	477.71	127.39	0
29	569	31847.13	3184.71	3108.28	142.13	0	0	178.34	21.06	0	0	0	0	636.94	318.47	50.96	0
29	570	26114.65	3821.66	2802.55	89.49	1273.89	318.47	280.25	5.26	0	0	0	0	0	0	0	0
29	590	26114.65	2866.24	942.68	84.22	15286.62	1592.36	1452.23	0	0	0	0	0	0	0	0	0
30	271	28662.42	477.71	1605.1	194.77	636.94	796.18	1299.36	5.26	0	0	0	0	636.94	0	0	0
30	272	27388.54	4299.36	1707.01	84.22	0	477.71	229.3	5.26	0	0	0	0	0	0	0	0
30	564	8917.2	1910.83	509.55	121.07	0	0	0	5.26	0	0	0	0	0	0	25.48	0
30	571	2547.77	636.94	1528.66	189.5	0	318.47	382.17	63.17	0	0	0	0	0	0	0	5.26
30	572	0	159.24	458.6	42.11	0	0	331.21	10.53	0	0	0	0	0	0	0	0
30	573	7643.31	477.71	585.99	205.3	636.94	0	101.91	42.11	0	0	0	0	636.94	159.24	0	0
30	587	59872.61	1910.83	1783.44	231.62	0	159.24	305.73	10.53	7643.31	0	0	0	4458.6	0	50.96	0
30	588	0	318.47	560.51	152.66	0	318.47	203.82	78.96	0	0	0	0	0	0	0	0
30	591	22929.94	3025.48	1630.57	89.49	0	159.24	356.69	0	0	0	0	0	636.94	159.24	0	0
30	592	35031.85	2547.77	1197.45	42.11	636.94	0	0	0	0	0	0	0	636.94	0	50.96	0
30	593	42675.16	5095.54	2522.29	152.66	5732.48	636.94	1528.66	21.06	0	0	0	0	636.94	0	50.96	0
30	594	28025.48	3343.95	2089.17	252.67	7006.37	796.18	484.08	5.26	0	159.24	0	0	1273.89	955.41	76.43	0
30	595	21656.05	5095.54	2318.47	321.1	10191.08	1433.12	789.81	10.53	2547.77	0	0	0	1273.89	159.24	101.91	5.26
30	596	7643.31	1592.36	2063.69	226.35	0	0	101.91	31.58	0	0	0	5.26	17834.39	1433.12	254.78	5.26
30	597	55414.01	2070.06	789.81	84.22	2547.77	1114.65	560.51	26.32	0	0	0	0	0	0	0	0

Compt No.	TSP No.	Sundri seedling	Sundri sapling	Sundri pole	Sundri tree	Gewa seedling	Gewa sapling	Gewa pole	Gewa tree	Goran seedling	Goran sapling	Goran pole	Goran tree	Amur seedling	Amur sapling	Amur pole	Amur tree
30	612	23566.88	4299.36	2318.47	242.14	10828.03	1910.83	331.21	0	0	0	0	0	0	0	0	0
31	302	20382.17	5254.78	1401.27	121.07	1910.83	477.71	2012.74	236.88	2547.77	0	0	0	1273.89	0	0	0
31	303	6369.43	1114.65	687.9	21.06	2547.77	1114.65	407.64	5.26	0	0	0	0	0	0	0	0
31	310	23566.88	4617.83	1707.01	105.28	7643.31	1433.12	611.46	36.85	0	0	0	0	0	159.24	50.96	0
31	311	24203.82	4140.13	1630.57	73.7	1273.89	1592.36	585.99	15.79	0	0	0	0	0	0	76.43	0
31	593	42675.16	5095.54	2522.29	152.66	5732.48	636.94	1528.66	21.06	0	0	0	0	636.94	0	50.96	0
31	610	10828.03	955.41	1044.59	305.31	0	0	0	0	0	0	0	0	0	796.18	0	0
31	611	2547.77	477.71	535.03	73.7	636.94	318.47	76.43	36.85	0	0	0	0	0	0	0	0
31	613	17834.39	3503.18	1528.66	147.39	8917.2	1751.59	815.29	21.06	0	0	0	0	0	0	0	0
31	617	20382.17	3503.18	1171.97	163.18	0	1114.65	356.69	0	0	0	0	0	0	0	0	0
31	618	24840.76	4936.31	1426.75	115.81	15286.62	2070.06	1146.5	5.26	0	0	0	0	0	0	0	0
31	619	1910.83	796.18	331.21	115.81	0	0	127.39	0	0	0	0	0	0	0	0	0
31	620	0	318.47	356.69	142.13	0	0	535.03	52.64	0	0	0	0	0	159.24	0	0
31	626	29299.36	0	1197.45	168.45	0	0	0	15.79	0	0	0	0	636.94	0	0	0
31	627	0	477.71	152.87	26.32	0	0	0	0	0	0	0	0	0	0	0	0
31	628	1273.89	636.94	254.78	157.92	0	0	509.55	47.38	0	0	25.48	0	0	0	0	0
31	629	12101.91	2866.24	1044.59	168.45	7006.37	2388.54	1121.02	0	0	0	25.48	0	0	0	25.48	0
31	630	16560.51	3025.48	1121.02	126.34	15286.62	1751.59	840.76	15.79	0	0	0	0	0	0	0	0
31	631	2547.77	636.94	738.85	157.92	0	0	305.73	15.79	0	0	0	0	636.94	318.47	127.39	5.26
31	632	0	0	611.46	205.3	0	0	25.48	0	636.94	0	0	0	0	0	0	0
31	633	29299.36	955.41	1324.84	152.66	0	0	331.21	26.32	0	0	0	0	0	0	0	0
31	634	7006.37	477.71	356.69	68.43	0	0	0	0	0	0	0	0	1910.83	0	50.96	0
31	635	14649.68	1273.89	178.34	36.85	0	0	331.21	21.06	0	0	0	0	0	0	0	0
31	636	3184.71	159.24	789.81	115.81	636.94	318.47	585.99	47.38	0	0	0	0	636.94	0	76.43	0
31	637	29299.36	3184.71	407.64	42.11	0	0	152.87	26.32	0	0	0	0	1273.89	477.71	50.96	0
31	638	22292.99	3343.95	484.08	121.07	0	159.24	254.78	115.81	0	0	0	0	1910.83	1273.89	76.43	5.26
32	288	22292.99	5414.01	1350.32	189.5	0	796.18	509.55	10.53	0	0	0	0	1910.83	318.47	280.25	0
32	289	9554.14	159.24	433.12	126.34	0	0	0	0	0	0	0	0	0	0	127.39	0
32	290	33757.96	3343.95	407.64	131.6	1273.89	159.24	101.91	0	0	0	0	0	1273.89	477.71	25.48	0
32	291	29299.36	2547.77	254.78	26.32	0	477.71	2089.17	0	0	0	0	0	636.94	0	50.96	0
32	299	50955.41	11624.2	178.34	42.11	0	477.71	254.78	5.26	0	0	25.48	0	0	1114.65	76.43	0
32	300	16560.51	5891.72	917.2	89.49	0	955.41	535.03	15.79	0	0	0	0	636.94	636.94	407.64	5.26
32	301	21656.05	3821.66	1452.23	115.81	0	318.47	611.46	0	0	0	0	0	1273.89	0	152.87	0

Compt No.	TSP No.	Sundri seedling	Sundri sapling	Sundri pole	Sundri tree	Gewa seedling	Gewa sapling	Gewa pole	Gewa tree	Goran seedling	Goran sapling	Goran pole	Goran tree	Amur seedling	Amur sapling	Amur pole	Amur tree
32	304	12101.91	636.94	178.34	78.96	0	0	0	0	0	0	0	0	0	0	101.91	0
32	305	31210.19	9394.9	1222.93	57.9	0	0	254.78	0	0	0	0	0	636.94	477.71	76.43	0
32	306	38216.56	8121.02	1070.06	78.96	1273.89	477.71	229.3	10.53	0	0	0	0	636.94	636.94	152.87	0
32	308	37579.62	7643.31	2140.13	136.86	0	636.94	535.03	26.32	0	0	0	0	1273.89	1114.65	305.73	0
32	309	34394.9	6528.66	2369.43	121.07	0	0	101.91	0	0	0	0	0	1273.89	159.24	127.39	0
32	312	28025.48	5414.01	1630.57	126.34	0	0	76.43	0	0	0	0	0	1273.89	0	0	0
32	614	63694.27	7006.37	1757.96	121.07	7006.37	2229.3	1375.8	21.06	0	0	0	0	0	0	0	0
32	615	57324.84	8917.2	1732.48	10.53	0	0	484.08	0	0	0	0	0	0	0	127.39	0
32	616	21019.11	5891.72	3414.01	105.28	0	0	585.99	15.79	0	0	0	0	0	0	178.34	0
33	254	3821.66	796.18	713.38	147.39	1910.83	636.94	331.21	10.53	0	0	0	0	636.94	477.71	331.21	0
33	255	8917.2	1592.36	636.94	163.18	3184.71	477.71	636.94	10.53	0	0	0	0	636.94	0	76.43	0
33	256	24203.82	5891.72	1681.53	236.88	1273.89	477.71	585.99	21.06	0	0	0	0	1910.83	1273.89	127.39	0
33	257	9554.14	2229.3	407.64	226.35	636.94	1273.89	662.42	21.06	0	0	0	0	0	636.94	76.43	0
33	258	17834.39	3503.18	1554.14	231.62	0	159.24	50.96	5.26	0	0	0	0	0	0	25.48	0
33	268	5095.54	1114.65	1197.45	247.41	3184.71	1592.36	331.21	0	0	0	0	0	636.94	477.71	229.3	0
33	269	1910.83	1592.36	1605.1	326.37	0	0	101.91	26.32	0	0	0	0	0	159.24	0	0
33	270	22929.94	2707.01	815.29	94.75	0	477.71	76.43	0	0	0	0	0	2547.77	636.94	305.73	0
33	273	36305.73	6050.96	1605.1	121.07	0	0	407.64	5.26	0	0	0	0	0	636.94	0	0
33	274	38853.5	2229.3	1656.05	178.98	1273.89	318.47	458.6	0	0	0	0	0	636.94	796.18	101.91	0
33	275	6369.43	2547.77	2471.34	226.35	0	318.47	1171.97	26.32	0	0	0	0	636.94	477.71	127.39	0
33	284	28662.42	3662.42	1273.89	231.62	0	0	1222.93	15.79	0	0	0	0	0	2388.54	662.42	0
33	285	5732.48	4140.13	433.12	68.43	636.94	0	76.43	0	0	0	0	0	0	0	0	0
33	286	5732.48	1433.12	458.6	110.54	0	0	0	0	0	0	0	0	0	318.47	127.39	0
33	287	30573.25	6847.13	1324.84	194.77	5095.54	796.18	382.17	5.26	0	0	0	0	636.94	318.47	0	0
34	222	0	0	127.39	0	2547.77	1433.12	1732.48	0	0	0	713.38	0	0	0	0	0
34	237	19745.22	4617.83	2216.56	257.94	4458.6	636.94	662.42	0	0	0	0	0	5095.54	955.41	152.87	0
34	238	19108.28	1433.12	1146.5	231.62	0	0	509.55	0	0	0	0	0	636.94	477.71	25.48	0
34	239	4458.6	1592.36	764.33	178.98	2547.77	1273.89	382.17	5.26	0	0	0	0	2547.77	955.41	101.91	0
34	250	7006.37	2547.77	356.69	257.94	4458.6	1592.36	866.24	26.32	0	0	0	0	2547.77	636.94	229.3	0
34	251	15923.57	2707.01	509.55	173.71	1910.83	0	1630.57	5.26	0	0	0	0	1273.89	159.24	127.39	0
34	252	8280.25	636.94	458.6	257.94	0	0	891.72	15.79	0	0	0	0	1273.89	636.94	76.43	0
34	539	22929.94	4140.13	713.38	205.3	5095.54	159.24	152.87	0	1273.89	1751.59	101.91	0	0	0	0	0
34	540	16560.51	3184.71	1528.66	68.43	1910.83	2229.3	458.6	0	0	0	0	0	4458.6	1273.89	152.87	0

Compt No.	TSP No.	Sundri seedling	Sundri sapling	Sundri pole	Sundri tree	Gewa seedling	Gewa sapling	Gewa pole	Gewa tree	Goran seedling	Goran sapling	Goran pole	Goran tree	Amur seedling	Amur sapling	Amur pole	Amur tree
34	541	12101.91	1751.59	968.15	136.86	8280.25	477.71	560.51	0	0	0	0	0	0	159.24	0	0
34	542	23566.88	4936.31	891.72	231.62	12738.85	2547.77	1859.87	10.53	0	0	0	0	0	0	0	0
34	567	43312.1	1592.36	1528.66	89.49	3821.66	159.24	1146.5	26.32	0	0	0	0	1910.83	318.47	50.96	0
35	248	7006.37	636.94	815.29	131.6	0	159.24	127.39	0	0	0	0	0	4458.6	477.71	127.39	0
35	259	17834.39	5095.54	1452.23	100.02	636.94	159.24	1299.36	10.53	0	0	0	0	1910.83	3343.95	178.34	0
35	260	8280.25	1433.12	1681.53	68.43	636.94	477.71	2343.95	0	0	0	0	0	0	159.24	25.48	0
35	266	7643.31	4777.07	1248.41	110.54	0	159.24	2038.22	5.26	0	0	0	0	0	955.41	356.69	0
35	267	19108.28	1114.65	1044.59	115.81	1273.89	636.94	1783.44	0	0	0	0	0	1910.83	796.18	25.48	0
35	276	28662.42	5095.54	2471.34	63.17	7643.31	477.71	1452.23	10.53	0	0	0	0	6369.43	3184.71	305.73	0
35	277	13375.8	796.18	713.38	63.17	0	0	1019.11	0	0	0	0	0	0	318.47	203.82	0
35	278	20382.17	2388.54	815.29	36.85	0	159.24	1910.83	0	0	0	0	0	0	0	0	0
35	279	0	955.41	382.17	26.32	636.94	477.71	25.48	0	0	0	0	0	0	0	254.78	0
35	281	8917.2	3821.66	433.12	5.26	1273.89	159.24	1121.02	0	0	0	0	0	0	0	50.96	0
35	282	20382.17	3821.66	1248.41	26.32	0	955.41	1324.84	15.79	0	0	0	0	0	0	0	5.26
35	283	47133.76	2070.06	2700.64	5.26	0	636.94	1299.36	26.32	0	0	0	0	0	477.71	0	0
35	292	35031.85	3503.18	611.46	57.9	1273.89	477.71	433.12	10.53	0	0	0	0	2547.77	477.71	127.39	0
35	293	15923.57	2229.3	50.96	31.58	0	318.47	560.51	10.53	0	0	0	0	0	159.24	0	0
35	294	8917.2	2866.24	407.64	10.53	2547.77	636.94	229.3	0	0	0	0	0	0	318.47	25.48	0
35	295	15923.57	2707.01	152.87	21.06	1910.83	0	229.3	0	0	0	0	0	636.94	318.47	0	0
35	296	5732.48	1910.83	127.39	42.11	0	477.71	356.69	10.53	0	0	0	0	0	0	0	0
35	297	2547.77	1273.89	509.55	57.9	0	0	25.48	0	0	0	0	0	0	159.24	76.43	0
35	298	8280.25	159.24	127.39	73.7	0	0	101.91	0	0	0	0	0	0	159.24	50.96	0
35	307	1273.89	477.71	101.91	36.85	0	0	0	0	0	0	0	0	0	0	25.48	0
36	190	0	0	662.42	231.62	0	0	305.73	10.53	0	0	0	0	636.94	0	331.21	0
36	214	0	159.24	993.63	215.82	0	318.47	509.55	21.06	0	0	0	0	1910.83	318.47	305.73	0
36	215	0	636.94	458.6	242.14	0	796.18	1783.44	63.17	0	0	0	0	2547.77	1114.65	280.25	0
36	216	3821.66	159.24	560.51	226.35	0	0	993.63	52.64	0	0	0	0	7643.31	636.94	433.12	0
36	225	8280.25	796.18	1452.23	168.45	636.94	0	127.39	5.26	0	0	0	0	1273.89	2547.77	382.17	0
36	226	0	0	76.43	15.79	0	0	25.48	0	0	0	0	0	0	0	0	0
36	229	0	159.24	203.82	73.7	4458.6	2070.06	2573.25	36.85	0	0	0	0	0	0	0	0
36	230	1273.89	2547.77	866.24	142.13	0	0	560.51	31.58	0	0	0	0	0	1433.12	76.43	0
36	231	1910.83	318.47	535.03	89.49	3184.71	1114.65	2904.46	52.64	0	0	0	0	0	159.24	25.48	0
36	232	9554.14	1592.36	1248.41	236.88	4458.6	1273.89	560.51	47.38	0	0	152.87	0	3184.71	318.47	356.69	0

Compt No.	TSP No.	Sundri seedling	Sundri sapling	Sundri pole	Sundri tree	Gewa seedling	Gewa sapling	Gewa pole	Gewa tree	Goran seedling	Goran sapling	Goran pole	Goran tree	Amur seedling	Amur sapling	Amur pole	Amur tree
36	233	8917.2	1910.83	1503.18	178.98	0	1273.89	2726.11	57.9	0	0	0	0	636.94	477.71	76.43	0
36	242	1910.83	477.71	585.99	110.54	1910.83	0	942.68	21.06	0	0	0	0	6369.43	796.18	152.87	0
36	243	13375.8	1592.36	2955.41	94.75	61146.5	159.24	1656.05	57.9	0	0	0	0	0	477.71	0	0
36	244	39490.45	0	305.73	100.02	15923.57	318.47	866.24	5.26	0	159.24	0	0	0	318.47	25.48	0
36	245	8280.25	477.71	1019.11	36.85	5732.48	1592.36	2675.16	26.32	0	0	0	0	636.94	0	0	0
36	246	7643.31	318.47	535.03	31.58	0	0	127.39	5.26	636.94	2070.06	0	0	0	318.47	0	0
36	247	12101.91	159.24	203.82	52.64	1910.83	636.94	1401.27	0	0	0	0	0	0	318.47	0	0
36	262	9554.14	1910.83	891.72	47.38	1910.83	0	382.17	5.26	0	0	0	0	0	0	0	0
36	263	4458.6	1592.36	1095.54	10.53	4458.6	636.94	611.46	10.53	0	0	0	0	0	0	0	0
36	264	4458.6	636.94	687.9	52.64	1910.83	636.94	433.12	5.26	0	0	0	0	636.94	1751.59	76.43	0
36	265	3821.66	0	1324.84	189.5	24203.82	1751.59	2242.04	0	0	0	0	0	1273.89	477.71	0	0
36	280	17197.45	796.18	509.55	163.18	636.94	318.47	1401.27	21.06	0	0	0	0	0	796.18	50.96	0
37	154	1910.83	318.47	687.9	5.26	0	159.24	2751.59	5.26	2547.77	4936.31	229.3	0	3821.66	477.71	50.96	0
37	155	4458.6	477.71	560.51	47.38	0	1273.89	636.94	47.38	2547.77	0	152.87	0	2547.77	955.41	127.39	0
37	178	0	636.94	280.25	5.26	0	318.47	2318.47	78.96	0	0	0	0	0	159.24	0	0
37	179	0	477.71	713.38	26.32	636.94	477.71	1659.87	10.53	0	0	0	0	636.94	318.47	127.39	0
37	180	636.94	0	585.99	194.77	0	159.24	636.94	36.85	0	0	0	0	10828.03	1114.65	509.55	0
37	191	0	318.47	993.63	147.39	0	0	636.94	47.38	0	0	0	0	3821.66	955.41	280.25	0
37	192	1273.89	159.24	560.51	126.34	636.94	796.18	2853.5	57.9	0	0	0	0	3184.71	159.24	25.48	0
37	193	7006.37	1114.65	1936.31	26.32	1273.89	0	1732.48	26.32	1910.83	1751.59	101.91	0	636.94	0	25.48	0
37	199	0	0	25.48	163.18	0	0	2216.56	47.38	0	0	0	0	0	318.47	0	0
37	200	5095.54	955.41	407.64	173.71	0	796.18	2471.34	36.85	0	0	0	0	636.94	1273.89	50.96	0
37	201	25477.71	796.18	254.78	173.71	0	318.47	1375.8	84.22	0	0	0	0	636.94	796.18	50.96	0
37	211	0	159.24	611.46	200.03	0	0	433.12	21.06	0	0	0	0	636.94	0	0	0
37	212	0	0	101.91	126.34	4458.6	2707.01	2191.08	52.64	0	0	0	0	0	0	25.48	31.58
37	213	0	318.47	662.42	89.49	0	477.71	1019.11	36.85	0	0	0	0	0	1751.59	305.73	0
37	227	0	318.47	1019.11	215.82	0	0	1222.93	57.9	0	0	0	0	0	636.94	203.82	0
37	228	3821.66	318.47	433.12	63.17	7643.31	159.24	2063.69	21.06	0	0	0	0	0	0	0	0
38	111	0	0	152.87	42.11	636.94	2707.01	6853.5	21.06	0	0	178.34	0	636.94	0	0	0
38	112	0	0	76.43	31.58	5095.54	796.18	6878.98	21.06	6369.43	8598.73	203.82	0	0	159.24	0	0
38	141	6369.43	1433.12	1401.27	147.39	10191.08	1751.59	1019.11	21.06	10191.08	318.47	458.6	0	1273.89	0	178.34	0
38	142	0	0	1121.02	31.58	636.94	0	76.43	0	3821.66	2547.77	356.69	0	0	159.24	407.64	0
38	143	5095.54	796.18	789.81	57.9	0	0	2853.5	15.79	2547.77	1433.12	0	0	0	318.47	50.96	0

Compt No.	TSP No.	Sundri seedling	Sundri sapling	Sundri pole	Sundri tree	Gewa seedling	Gewa sapling	Gewa pole	Gewa tree	Goran seedling	Goran sapling	Goran pole	Goran tree	Amur seedling	Amur sapling	Amur pole	Amur tree
38	144	7643.31	1114.65	866.24	15.79	636.94	477.71	2573.25	15.79	3184.71	2229.3	25.48	0	1273.89	0	0	0
38	145	0	0	764.33	105.28	0	477.71	3668.79	21.06	7643.31	1273.89	152.87	0	19108.28	318.47	76.43	0
38	149	19108.28	1910.83	305.73	163.18	636.94	1751.59	2038.22	10.53	0	0	0	0	5095.54	3662.42	433.12	10.53
38	150	3184.71	0	1554.14	226.35	636.94	796.18	585.99	0	0	0	0	0	0	159.24	0	0
38	151	1273.89	796.18	713.38	221.09	0	159.24	738.85	21.06	0	0	0	0	2547.77	1114.65	152.87	0
38	152	1273.89	0	229.3	63.17	0	159.24	3923.57	21.06	5095.54	796.18	25.48	0	0	0	76.43	0
38	153	3184.71	796.18	891.72	57.9	0	1751.59	1197.45	15.79	3821.66	3503.18	0	0	5095.54	636.94	152.87	0
38	181	7643.31	2070.06	1885.35	189.5	636.94	318.47	25.48	31.58	0	0	0	0	5732.48	2229.3	535.03	0
38	182	636.94	159.24	993.63	142.13	636.94	955.41	229.3	5.26	0	0	0	0	636.94	1751.59	76.43	0
38	183	0	0	1019.11	184.24	0	0	2063.69	15.79	0	0	0	0	0	0	101.91	0
38	188	10191.08	1273.89	1019.11	389.54	0	159.24	1273.89	0	0	0	0	0	5732.48	1751.59	560.51	0
38	189	4458.6	2229.3	1121.02	184.24	0	318.47	560.51	5.26	0	0	0	0	5095.54	1751.59	407.64	0
38	190	0	0	662.42	231.62	0	0	305.73	10.53	0	0	0	0	636.94	0	331.21	0
38	202	18471.34	318.47	535.03	26.32	1910.83	0	484.08	0	0	0	0	0	636.94	318.47	0	0
38	203	636.94	0	356.69	126.34	0	636.94	3261.15	26.32	0	0	0	0	636.94	0	101.91	0
38	848	2547.77	636.94	636.94	5.26	7006.37	2707.01	2114.65	42.11	19745.22	9554.14	1579.62	0	0	0	0	0
39	184	24840.76	3025.46	1808.92	110.54	5095.54	1592.36	1222.93	21.06	0	159.24	0	0	636.94	318.47	76.43	0
39	185	55414.01	9235.67	2165.61	342.16	31847.13	4140.13	713.38	26.32	0	0	0	0	4458.6	159.24	0	0
39	186	16560.51	2229.3	1554.14	126.34	5095.54	1433.12	1350.32	21.06	0	0	0	0	0	0	50.96	0
39	187	4458.6	1433.12	636.94	84.22	13375.8	4140.13	2878.98	31.58	0	0	0	0	636.94	0	0	0
39	204	7006.37	955.41	305.73	10.53	2547.77	1273.89	3031.85	10.53	15286.62	6687.9	152.87	0	0	0	0	0
39	205	7006.37	1433.12	866.24	84.22	1910.83	796.18	1656.05	15.79	0	0	0	0	1910.83	796.18	152.87	0
39	206	1910.83	2070.06	738.85	84.22	3821.66	477.71	1197.45	15.79	0	0	0	0	5095.54	159.24	229.3	0
39	207	14649.68	2707.01	1528.66	94.75	3184.71	1273.89	2929.94	10.53	0	0	0	0	3184.71	955.41	50.96	0
39	208	21656.05	2547.77	2292.99	278.99	0	636.94	687.9	15.79	0	0	0	0	7006.37	4299.36	942.68	0
39	220	5732.48	636.94	1834.39	336.9	0	0	764.33	10.53	0	0	0	0	2547.77	1433.12	407.64	0
39	221	22929.94	2547.77	2089.17	115.81	13375.8	318.47	713.38	5.26	0	0	0	0	1910.83	796.18	76.43	0
39	454	34394.9	4140.13	2242.04	242.14	5095.54	477.71	789.81	42.11	0	159.24	50.96	0	1910.83	1751.59	407.64	0
39	484	45222.93	4936.31	993.63	68.43	7643.31	1592.36	2980.89	31.58	8917.2	2229.3	0	0	0	0	50.96	0
39	485	70700.64	5095.54	2089.17	284.26	17197.45	2229.3	764.33	15.79	0	0	0	0	0	0	0	0
39	486	81528.66	10987.26	3566.88	357.95	13375.8	2070.06	789.81	10.53	0	0	0	0	9554.14	1114.65	76.43	0
39	487	31847.13	2229.3	585.99	5.26	15923.57	1751.59	3719.75	26.32	0	0	0	0	0	0	0	0
39	509	28025.48	1433.12	1146.5	142.13	2547.77	0	713.38	10.53	0	0	0	0	636.94	0	50.96	0

Compt No.	TSP No.	Sundri seedling	Sundri sapling	Sundri pole	Sundri tree	Gewa seedling	Gewa sapling	Gewa pole	Gewa tree	Goran seedling	Goran sapling	Goran pole	Goran tree	Amur seedling	Amur sapling	Amur pole	Amur tree
39	510	59872.61	5573.25	2165.61	242.14	12738.85	2229.3	764.33	31.58	0	0	0	0	0	0	0	0
39	511	43312.1	5732.48	3464.97	289.52	17197.45	3025.48	942.68	36.85	0	0	0	0	3184.71	318.47	50.96	0
39	512	51592.36	9394.9	1936.31	242.14	14012.74	3980.89	662.42	31.58	0	0	0	0	3184.71	318.47	152.87	0
39	513	26114.65	6687.9	993.63	57.9	47770.7	7006.37	1630.57	163.18	0	477.71	0	0	5095.54	477.71	0	0
39	618	24840.76	4936.31	1426.75	115.81	15286.62	2070.06	1146.5	5.26	0	0	0	0	0	0	0	0
40	209	5095.54	159.24	203.82	68.43	636.94	1592.36	6980.89	110.54	0	0	0	0	7006.37	2229.3	152.87	0
40	210	3821.66	318.47	509.55	157.92	0	0	0	0	0	0	0	0	3184.71	1592.36	76.43	0
40	217	18471.34	4140.13	1987.26	73.7	5732.48	1433.12	1222.93	10.53	0	0	0	0	0	159.24	25.48	0
40	218	9554.14	1910.83	1681.53	173.71	636.94	159.24	866.24	89.49	0	0	0	0	0	636.94	101.91	0
40	219	4458.6	318.47	1248.41	184.24	0	318.47	331.21	0	0	0	0	0	6369.43	3025.48	254.78	0
40	223	5095.54	1273.89	484.08	242.14	5732.48	955.41	1605.1	52.64	0	0	0	0	0	796.18	25.48	0
40	224	2547.77	318.47	662.42	173.71	0	318.47	2573.25	31.58	0	0	0	0	0	0	50.96	0
40	235	5732.48	3503.18	917.2	84.22	0	0	1070.06	15.79	0	0	0	0	0	318.47	25.48	0
40	236	26751.59	636.94	356.69	152.66	7643.31	318.47	2700.64	15.79	0	0	0	0	2547.77	2866.24	178.34	0
40	240	22292.99	7961.78	2114.65	10.53	14649.68	636.94	815.29	5.26	0	0	0	0	1910.83	0	50.96	0
40	241	6369.43	2229.3	968.15	173.71	4458.6	796.18	1171.97	5.26	0	0	0	0	0	477.71	152.87	0
40	249	2547.77	2547.77	509.55	63.17	2547.77	2070.06	1477.71	10.53	0	0	0	0	0	0	0	0
41	70	26114.65	7961.78	1401.27	5.26	7643.31	3184.71	1987.26	0	46496.82	13694.27	1197.45	0	8280.25	796.18	203.82	5.26
41	71	0	0	382.17	5.26	1273.89	318.47	1375.8	0	46496.82	21019.11	1605.1	0	0	159.24	76.43	0
41	72	636.94	0	382.17	0	1910.83	318.47	229.3	31.58	8917.2	4458.6	1248.41	0	0	318.47	0	0
41	73	1910.83	1273.89	1503.18	26.32	0	796.18	2649.68	21.06	636.94	796.18	611.46	0	1910.83	318.47	101.91	0
41	74	0	0	484.08	5.26	8917.2	1433.12	2089.17	5.26	4458.6	318.47	458.6	0	636.94	0	178.34	0
41	98	0	0	560.51	10.53	7643.31	1751.59	2394.9	78.96	0	6847.13	1197.45	0	0	0	101.91	0
41	99	636.94	477.71	0	0	7643.31	1751.59	2114.65	5.26	23566.88	11464.97	382.17	0	0	0	0	0
41	100	0	0	585.99	21.06	0	159.24	1707.01	21.06	9554.14	5095.54	738.85	5.26	0	0	0	0
41	101	0	1273.89	1121.02	100.02	636.94	796.18	1477.71	26.32	636.94	636.94	50.96	0	1910.83	636.94	76.43	0
41	113	636.94	159.24	789.81	5.26	0	0	280.25	0	1273.89	3662.42	1222.93	0	0	0	0	0
41	114	0	0	305.73	0	636.94	0	1477.71	5.26	636.94	1910.83	917.2	0	0	0	0	0
41	115	2547.77	796.18	1656.05	5.26	21019.11	1433.12	2089.17	10.53	7006.37	2707.01	535.03	0	636.94	159.24	152.87	0
41	116	636.94	159.24	1452.23	0	0	0	1197.45	0	5095.54	4617.83	407.64	0	0	0	305.73	0
41	117	0	318.47	789.81	5.26	0	159.24	1273.89	5.26	17197.45	7165.61	1146.5	0	1273.89	2229.3	585.99	0
41	137	2547.77	1273.89	535.03	0	0	0	789.81	15.79	8280.25	0	509.55	0	636.94	1433.12	535.03	0
41	138	0	0	1503.18	0	0	0	535.03	0	0	0	356.69	0	0	0	178.34	0

Compt No.	TSP No.	Sundri seedling	Sundri sapling	Sundri pole	Sundri tree	Gewa seedling	Gewa sapling	Gewa pole	Gewa tree	Goran seedling	Goran sapling	Goran pole	Goran tree	Amur seedling	Amur sapling	Amur pole	Amur tree
41	139	0	0	280.25	15.79	0	0	178.34	10.53	0	3662.42	433.12	0	0	0	0	0
41	140	0	0	127.39	15.79	0	0	1477.71	0	5095.54	6050.96	127.39	0	0	0	0	0
41	156	0	0	560.51	21.06	0	1592.36	3006.37	73.7	6369.43	2547.77	254.78	0	0	0	101.91	0
42	13	1910.83	477.71	356.69	10.53	10191.08	2707.01	2955.41	15.79	11464.97	5891.72	1273.89	0	0	0	0	0
42	14	0	0	203.82	0	3821.66	2866.24	2751.59	0	6369.43	7006.37	687.9	0	0	0	0	0
42	15	0	0	1044.59	0	0	0	662.42	0	1273.89	5414.01	1070.06	0	0	318.47	0	0
42	16	0	636.94	152.87	0	5732.48	11464.97	3898.09	5.26	2547.77	13057.32	968.15	0	0	0	0	0
42	31	0	0	280.25	15.79	5095.54	2547.77	5273.89	5.26	0	636.94	840.76	0	0	0	25.48	0
42	33	0	0	382.17	0	7006.37	3662.42	2751.59	5.26	24203.82	3662.42	433.12	0	0	0	0	0
42	34	0	0	127.39	0	7006.37	2547.77	1681.53	36.85	10828.03	6687.9	1222.93	0	0	0	0	0
42	35	1273.89	0	764.33	0	1910.83	1114.65	1885.35	0	5732.48	9872.61	968.15	0	0	0	0	0
42	54	0	1114.65	891.72	5.26	5732.48	1910.83	1579.62	15.79	22929.94	11146.5	1452.23	0	0	159.24	0	0
42	55	0	0	25.48	0	3821.66	3343.95	1910.83	0	27388.54	25318.47	1299.36	0	0	0	0	0
42	56	4458.6	0	382.17	5.26	5732.48	0	1605.1	5.26	8917.2	1114.65	764.33	0	0	0	0	0
42	57	0	0	1070.06	0	4458.6	3343.95	2853.5	5.26	5732.48	6369.43	254.78	0	0	0	0	0
42	893	7006.37	796.18	407.64	0	17197.45	6369.43	2929.94	15.79	24203.82	4299.36	891.72	10.53	0	0	0	0
42	914	1273.89	796.18	815.29	21.06	636.94	2707.01	1605.1	26.32	5732.48	1592.36	942.68	0	0	0	0	0
42	929	3184.71	636.94	1222.93	10.53	3184.71	3184.71	713.38	0	7643.31	6369.43	1171.97	0	636.94	0	229.3	0
42	951	27388.54	4299.36	840.76	0	3821.66	1433.12	2216.56	0	19108.28	10031.85	891.72	0	0	0	0	0
42	952	636.94	796.18	331.21	0	0	159.24	2140.13	31.58	26751.59	8917.2	1095.54	0	0	0	0	0
42	965	0	955.41	229.3	52.64	2547.77	1273.89	1375.8	15.79	5732.48	796.18	305.73	0	0	0	0	0
42	966	3184.71	2229.3	2267.52	47.38	3184.71	1592.36	1554.14	0	5732.48	5414.01	356.69	0	0	0	152.87	0
42	967	0	0	203.82	26.32	4458.6	955.41	1885.35	15.79	7006.37	5573.25	1707.01	0	0	0	0	0
43	684	8917.2	477.71	713.38	5.26	0	318.47	356.69	63.17	0	1592.36	789.81	0	0	0	0	0
43	693	13375.8	7802.55	1095.54	73.7	4458.6	796.18	891.72	89.49	7643.31	5732.48	1095.54	10.53	0	0	0	0
43	694	3184.71	1114.65	611.46	21.06	0	159.24	2267.52	78.96	1910.83	5254.78	866.24	0	0	0	0	0
43	712	1273.89	318.47	178.34	0	13375.8	4299.36	2063.69	26.32	5732.48	9872.61	713.38	0	0	0	0	0
43	713	8917.2	3343.95	1910.83	0	5732.48	0	3796.18	126.34	3821.66	11146.5	2547.77	0	0	0	0	0
43	714	3821.66	1433.12	2929.94	26.32	0	318.47	407.64	36.85	1910.83	1273.89	1452.23	0	0	0	0	0
43	722	1273.89	0	636.94	0	3821.66	636.94	5350.32	52.64	3821.66	5732.48	891.72	0	636.94	0	0	0
43	723	0	0	0	0	12738.85	3025.48	1859.87	15.79	53503.18	18789.81	687.9	0	0	0	0	0
43	741	4458.6	1114.65	458.6	21.06	5732.48	6050.96	1808.92	36.85	8280.25	5891.72	891.72	0	0	0	0	0
43	742	0	636.94	178.34	15.79	8280.25	7961.78	1834.39	21.06	27388.54	7961.78	1605.1	0	0	0	0	0

Compt No.	TSP No.	Sundri seedling	Sundri sapling	Sundri pole	Sundri tree	Gewa seedling	Gewa sapling	Gewa pole	Gewa tree	Goran seedling	Goran sapling	Goran pole	Goran tree	Amur seedling	Amur sapling	Amur pole	Amur tree
43	743	3821.66	1273.89	891.72	5.26	1910.83	636.94	993.63	0	11464.97	3503.18	1121.02	0	0	0	0	0
43	744	9554.14	2229.3	764.33	26.32	29299.36	5414.01	1044.59	31.58	6369.43	8121.02	1350.32	0	0	0	0	0
43	745	5095.54	318.47	1171.97	63.17	0	0	1987.26	73.7	10828.03	2229.3	509.55	0	0	0	0	0
43	746	1273.89	0	1477.71	184.24	636.94	0	585.99	78.96	8280.25	4458.6	611.46	0	0	0	0	0
43	747	6369.43	1114.65	1554.14	68.43	636.94	318.47	585.99	47.38	0	955.41	254.78	0	0	0	0	0
43	749	17197.45	3821.66	2191.08	68.43	1910.83	477.71	1248.41	5.26	7643.31	2547.77	585.99	0	636.94	318.47	25.48	0
43	750	9554.14	3184.71	2012.74	42.11	2547.77	636.94	866.24	57.9	0	477.71	331.21	0	0	0	0	0
43	751	14012.74	636.94	3312.1	47.38	0	0	662.42	31.58	1910.83	2388.54	1299.36	0	0	0	0	0
43	752	0	0	152.87	0	10191.08	3025.48	3949.04	0	56687.9	8121.02	254.78	0	0	0	0	0
43	753	0	0	0	0	4458.6	1433.12	2038.22	0	9554.14	6369.43	305.73	0	0	0	0	0
43	754	0	0	152.87	0	10191.08	4936.31	3490.45	10.53	1273.89	2707.01	866.24	0	0	0	0	0
43	776	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	777	3821.66	955.41	2420.38	36.85	4458.6	3821.66	3872.61	47.38	636.94	4458.6	1732.48	0	0	0	0	0
43	778	0	636.94	1834.39	157.92	5095.54	1910.83	866.24	5.26	1910.83	1910.83	229.3	0	0	0	0	0
43	781	0	477.71	0	0	7643.31	955.41	1579.62	0	21656.05	5891.72	127.39	0	0	0	0	0
43	782	1273.89	796.18	1503.18	47.38	8280.25	3980.89	2751.59	36.85	5732.48	7643.31	1146.5	0	0	0	0	0
43	798	0	0	0	0	0	477.71	1605.1	21.06	4458.6	5254.78	254.78	0	0	0	0	0
43	810	3821.66	1114.65	866.24	21.06	4458.6	955.41	1121.02	0	13375.8	7643.31	560.51	0	0	0	127.39	0
43	818	636.94	796.18	2292.99	63.17	636.94	0	917.2	5.26	0	0	76.43	0	0	0	0	0
44	156	0	0	560.51	21.06	0	1592.36	3006.37	73.7	6369.43	2547.77	254.78	0	0	0	101.91	0
44	649	0	0	0	0	0	636.94	3719.75	78.96	27388.54	9076.43	4229.3	0	0	0	0	0
44	650	0	0	50.96	0	17834.39	1273.89	5605.1	115.81	7643.31	4617.83	305.73	0	0	0	0	0
44	661	26114.65	1114.65	1299.36	10.53	1273.89	2229.3	1477.71	5.26	0	0	229.3	0	0	0	0	0
44	662	14012.74	1910.83	2191.08	121.07	30573.25	1910.83	1732.48	178.98	636.94	4936.31	1222.93	0	0	0	50.96	0
44	663	7643.31	1751.59	1146.5	52.64	4458.6	636.94	1070.06	226.35	1273.89	159.24	254.78	0	0	159.24	0	0
44	664	0	0	585.99	10.53	10191.08	7961.78	1961.78	15.79	14649.68	11464.97	687.9	0	0	0	25.48	0
44	665	1910.83	2707.01	2343.95	52.64	2547.77	159.24	789.81	73.7	1910.83	0	1375.8	0	0	0	0	0
44	666	1273.89	477.71	2445.86	10.53	0	0	1350.32	15.79	10828.03	1433.12	356.69	0	0	0	0	0
44	667	5095.54	636.94	738.85	36.85	17834.39	3503.18	2242.04	52.64	3184.71	3503.18	1222.93	0	0	0	25.48	0
44	685	12738.85	1910.83	2343.95	57.9	0	0	738.85	57.9	3184.71	1910.83	254.78	0	0	159.24	0	0
44	686	20382.17	3025.48	1171.97	15.79	1273.89	796.18	5350.32	15.79	5095.54	5891.72	1757.96	0	0	318.47	0	0
44	687	29936.31	3980.89	815.29	5.26	0	0	687.9	15.79	636.94	955.41	229.3	0	0	318.47	76.43	0
44	688	0	0	50.96	68.43	1910.83	6050.96	5834.39	115.81	0	159.24	535.03	0	0	0	0	0

Compt No.	TSP No.	Sundri seedling	Sundri sapling	Sundri pole	Sundri tree	Gewa seedling	Gewa sapling	Gewa pole	Gewa tree	Goran seedling	Goran sapling	Goran pole	Goran tree	Amur seedling	Amur sapling	Amur pole	Amur tree
44	689	0	477.71	76.43	0	1910.83	1751.59	6522.29	0	12738.85	15764.33	3363.06	0	0	0	0	0
44	690	5095.54	0	687.9	0	1273.89	318.47	280.25	15.79	5095.54	796.18	1783.44	0	0	0	50.96	0
44	691	5095.54	1433.12	2726.11	142.13	0	955.41	1961.78	63.17	3821.66	636.94	611.46	0	0	0	0	0
44	692	1273.89	318.47	1121.02	78.96	636.94	0	178.34	42.11	3821.66	2229.3	1757.96	26.32	1910.83	0	127.39	0
44	715	11464.97	796.18	1630.57	68.43	5732.48	318.47	636.94	21.06	0	159.24	891.72	10.53	0	0	0	0
44	716	1273.89	955.41	2140.13	263.2	636.94	159.24	993.63	131.6	636.94	159.24	407.64	0	0	0	0	0
44	717	0	0	0	0	4458.6	1592.36	2012.74	0	17834.39	11146.5	1299.36	0	0	0	0	0
44	718	0	0	0	0	0	0	3031.85	42.11	0	0	50.96	0	0	0	0	0
44	719	43312.1	2388.54	1707.01	0	3184.71	0	662.42	0	1910.83	3343.95	305.73	0	0	0	0	0
44	720	636.94	0	458.6	110.54	4458.6	1273.89	942.68	221.09	1910.83	796.18	1299.36	0	0	0	0	0
44	721	29299.36	2229.3	1324.84	15.79	1910.83	477.71	662.42	57.9	0	0	254.78	0	0	0	25.48	0
44	748	0	0	152.87	0	14012.74	2547.77	2649.68	73.7	6369.43	8917.2	1222.93	0	0	0	0	0
45	977	22929.94	4140.13	1095.54	47.38	7643.31	1114.65	1426.75	84.22	0	1910.83	484.08	0	0	0	0	0
45	978	34394.9	4777.07	3337.58	0	5732.48	636.94	2012.74	31.58	1910.83	1751.59	152.87	0	0	0	0	0
45	979	21656.05	4458.6	1121.02	5.26	5095.54	4140.13	2420.38	68.43	10828.03	4299.36	76.43	0	0	0	0	0
45	980	636.94	0	50.96	0	21656.05	2866.24	1426.75	5.26	3821.66	2547.77	305.73	0	0	0	0	0
45	981	0	0	203.82	21.06	26114.65	4299.36	2140.13	5.26	14012.74	5414.01	764.33	0	0	0	0	0
45	982	12738.85	318.47	1757.96	26.32	8917.2	477.71	585.99	0	0	0	280.25	0	0	0	0	0
45	984	30573.25	7324.84	1936.31	78.96	37579.62	5414.01	1171.97	31.58	0	1910.83	280.25	0	0	0	0	0
45	985	8917.2	3184.71	840.76	31.58	5095.54	2070.06	2369.43	36.85	1910.83	477.71	356.69	0	0	0	0	0
45	986	7006.37	0	382.17	0	12738.85	2229.3	3464.97	10.53	5732.48	6528.66	433.12	0	0	0	0	0
45	987	3184.71	0	1961.78	257.94	0	636.94	942.68	5.26	3821.66	2707.01	509.55	0	0	159.24	50.96	0
45	988	13375.8	955.41	1783.44	136.86	7006.37	2707.01	1554.14	21.06	0	1433.12	942.68	0	0	0	0	0
45	989	8917.2	477.71	1554.14	89.49	7643.31	1910.83	866.24	5.26	10191.08	8121.02	764.33	0	0	0	0	0
45	990	6369.43	3025.48	585.99	5.26	3184.71	6050.96	2267.52	0	10191.08	14012.74	738.85	0	0	0	0	0
45	991	23566.88	1592.36	1324.84	26.32	31210.19	2070.06	2267.52	0	15286.62	5414.01	229.3	0	0	0	0	0
45	998	1910.83	0	0	0	5095.54	796.18	3006.37	10.53	0	1910.83	254.78	0	0	0	0	0
45	999	0	0	611.46	0	5732.48	318.47	1299.36	0	1910.83	3503.18	1121.02	0	0	0	0	0
45	1000	4458.6	0	458.6	47.38	4458.6	1592.36	458.6	0	3184.71	1114.65	433.12	0	1910.83	159.24	50.96	0
45	1001	636.94	159.24	687.9	42.11	39490.45	2707.01	1375.8	5.26	0	477.71	535.03	0	0	0	0	0
45	1002	11464.97	1751.59	458.6	31.58	16560.51	6210.19	2726.11	10.53	37579.62	7006.37	636.94	0	1910.83	0	76.43	0
45	1003	15923.57	2547.77	1146.5	147.39	3184.71	1273.89	4050.96	5.26	12738.85	10350.32	1222.93	0	0	477.71	0	0
45	1014	3184.71	4299.36	1757.96	315.84	20382.17	3025.48	789.81	21.06	28025.48	8917.2	535.03	0	0	0	0	0

Compt No.	TSP No.	Sundri seedling	Sundri sapling	Sundri pole	Sundri tree	Gewa seedling	Gewa sapling	Gewa pole	Gewa tree	Goran seedling	Goran sapling	Goran pole	Goran tree	Amur seedling	Amur sapling	Amur pole	Amur tree
45	1015	0	0	0	0	11464.97	3662.42	3235.67	0	0	318.47	127.39	0	0	0	0	0
45	1067	156051	0	25.48	0	7643.31	3821.66	5452.23	0	16560.51	10350.32	1757.66	0	0	0	0	0
45	1097	0	0	203.82	0	3184.71	955.41	3235.67	42.11	2547.77	3662.42	840.76	0	0	0	0	0
45	1098	14649.68	3821.66	484.08	0	16560.51	6528.66	2420.38	0	33757.96	12898.09	1885.35	0	0	0	0	0
45	1099	21656.05	2547.77	1121.02	5.26	15923.57	3184.71	1554.14	0	40764.33	15445.86	2089.17	0	0	0	0	0
46	75	0	0	280.25	0	35668.79	1114.65	687.9	15.79	22292.99	4777.07	254.78	0	0	796.18	280.25	0
46	76	0	0	280.25	5.26	8917.2	3980.89	2802.55	5.26	6369.43	2070.06	229.3	0	0	0	50.96	0
46	77	636.94	318.47	993.63	0	0	0	713.38	5.26	1273.89	2070.06	305.73	0	1273.89	1433.12	331.21	0
46	78	0	0	0	0	2547.77	1592.36	2114.65	15.79	8280.25	8598.73	1757.96	0	0	0	0	0
46	93	0	0	101.91	0	5732.48	1751.59	1630.57	0	5095.54	6369.43	993.63	0	0	1273.89	101.91	0
46	94	0	0	101.91	0	5732.48	1273.89	2726.11	5.26	0	0	407.64	0	0	0	0	0
46	95	0	0	407.64	0	0	477.71	1375.8	5.26	3821.66	1273.89	1121.02	0	0	0	0	0
46	96	0	0	254.78	0	6369.43	2547.77	1146.5	5.26	34394.9	11146.5	942.68	0	0	0	0	0
46	118	0	0	1019.11	0	0	159.24	1095.54	5.26	7006.37	5254.78	356.69	0	0	159.24	50.96	0
46	119	7006.37	2547.77	789.81	5.26	4458.6	2866.24	1146.5	10.53	0	796.18	50.96	0	636.94	636.94	127.39	0
46	120	1273.89	636.94	1732.48	0	636.94	318.47	2394.9	5.26	1910.83	477.71	50.96	0	0	0	0	0
46	121	1910.83	796.18	1732.48	0	4458.6	1114.65	815.29	5.26	1910.83	1592.36	254.78	0	2547.77	1273.89	407.64	0
46	135	636.94	0	1044.59	10.53	3184.71	0	1910.83	5.26	1910.83	3184.71	331.21	0	0	0	25.48	0
46	136	0	0	687.9	0	0	1114.65	1936.31	15.79	636.94	3980.89	458.6	0	0	0	0	0
46	157	0	796.18	1146.5	10.53	0	318.47	1121.02	0	0	796.18	101.91	0	636.94	1114.65	815.29	0
46	158	0	0	127.39	0	3184.71	0	407.64	21.06	2547.77	1433.12	254.78	0	0	0	0	0
46	159	0	0	50.96	0	4458.6	0	331.21	0	11464.97	3025.48	305.73	0	0	0	0	0
46	160	0	477.71	968.15	0	636.94	318.47	1987.26	0	3821.66	636.94	152.87	0	0	0	0	0
46	161	0	477.71	382.17	0	7643.31	1751.59	1426.75	10.53	0	0	0	0	0	0	0	0
46	172	0	0	942.68	0	636.94	2388.54	1987.26	10.53	0	0	0	0	0	0	0	0
46	173	0	0	229.3	5.26	7006.37	796.18	1630.57	5.26	0	0	0	0	3184.71	159.24	305.73	0
46	174	0	159.24	76.43	0	0	955.41	1910.83	0	9554.14	5891.72	484.08	0	0	159.24	152.87	0
46	175	636.94	0	458.6	0	1910.83	796.18	1757.96	10.53	0	318.47	382.17	0	0	477.71	0	0
46	176	636.94	318.47	1197.45	0	1910.83	636.94	1910.83	10.53	5095.54	2388.54	458.6	0	0	796.18	254.78	0
46	177	0	796.18	1121.02	0	0	1751.59	3719.75	0	8917.2	6528.66	1171.97	0	0	159.24	50.96	0
46	194	7643.31	2070.06	611.46	0	1273.89	1273.89	4203.82	0	636.94	3662.42	254.78	0	0	0	0	0
46	195	0	0	866.24	0	0	0	560.51	0	0	0	0	0	0	0	0	0
46	197	4458.6	2229.3	3184.71	5.26	3821.66	2229.3	3210.19	0	1273.89	636.94	229.3	0	0	159.24	25.48	0

46	198	0	0	0	0	1910.83	636.94	1222.93	5.26	8280.25	4458.6	127.39	0	15286.62	0	0	0
47	51	0	636.94	1859.87	0	0	1273.89	1222.93	0	1910.83	5732.48	76.43	0	636.94	159.24	0	0
47	52	7006.37	3821.66	2445.86	10.53	5095.54	477.71	891.72	5.26	1273.89	4299.36	152.87	0	0	0	0	0
47	79	0	0	101.91	0	0	796.18	2471.34	5.26	1910.83	6210.19	178.34	0	0	0	25.48	0
47	80	0	477.71	254.78	5.26	0	0	331.21	10.53	3184.71	4458.6	942.68	0	0	0	152.87	0
47	81	3184.71	955.41	2165.61	5.26	636.94	0	840.76	5.26	636.94	1114.65	152.87	0	0	159.24	50.96	0
47	82	0	0	433.12	0	0	796.18	840.76	21.06	1273.89	7006.37	738.85	0	0	0	101.91	0
47	83	0	3662.42	1656.05	0	1910.83	955.41	458.6	26.32	0	0	127.39	0	1273.89	318.47	433.12	10.53
47	90	6369.43	3662.42	2318.47	0	0	2388.54	1171.97	5.26	6369.43	0	713.38	0	0	0	0	0
47	91	0	0	280.25	5.26	0	0	1630.57	31.58	1273.89	7961.78	1044.59	0	0	0	0	0
47	92	2547.77	796.18	229.3	0	5095.54	3980.89	1503.18	5.26	0	5414.01	585.99	0	0	0	229.3	0
47	97	3821.66	477.71	1503.18	0	3184.71	477.71	993.63	10.53	636.94	2707.01	687.9	0	3184.71	1114.65	356.69	0
47	122	0	636.94	382.17	0	0	636.94	382.17	10.53	22929.94	5573.25	713.38	0	0	636.94	50.96	0
47	123	0	0	127.39	0	636.94	0	305.73	0	3184.71	16560.51	1910.83	0	0	0	0	0
47	124	3821.66	796.18	687.9	0	5095.54	3025.48	1579.62	5.26	1273.89	1751.59	764.33	0	0	0	50.96	0
47	128	5095.54	636.94	3617.83	0	0	1114.65	738.85	0	1910.83	1433.12	382.17	0	0	0	0	0
47	129	0	0	866.24	0	1273.89	636.94	2445.86	15.79	25477.71	3343.95	780.81	0	0	0	25.48	0
47	130	4458.6	1114.65	815.29	0	3821.66	796.18	1757.95	10.53	3184.71	318.47	76.43	0	0	318.47	254.78	0
47	131	0	0	127.39	0	636.94	796.18	1783.44	10.53	6369.43	6210.19	1095.54	0	0	0	0	0
47	132	2547.77	796.18	484.08	0	5095.54	955.41	1070.06	26.32	1273.89	0	127.39	0	0	159.24	0	0
47	162	1910.83	2866.24	1070.06	5.26	0	159.24	1936.31	0	5095.54	159.24	101.91	0	0	159.24	0	0
47	163	12738.85	3025.48	1630.57	0	636.94	477.71	2343.95	10.53	1273.89	2070.06	407.64	0	0	0	0	0
47	164	636.94	0	25.48	0	2547.77	477.71	1656.05	15.79	28025.48	11464.97	1554.14	0	0	0	0	0
47	165	0	159.24	25.48	0	10828.03	3503.18	1426.75	0	8280.25	5254.78	738.85	0	0	0	0	0
47	166	636.94	0	0	0	8280.25	6687.9	2420.38	0	7006.37	10987.26	1707.01	0	0	0	0	0
47	168	0	0	0	0	3821.66	3980.89	1146.5	0	25477.71	12420.38	713.38	0	0	0	0	0
47	169	1273.89	0	407.64	0	6369.43	2547.77	1808.92	0	5095.54	3343.95	1452.23	0	0	0	0	0
47	170	3184.71	1433.12	1324.84	0	0	159.24	993.63	5.26	0	0	0	0	0	318.47	25.48	0
47	171	9554.14	796.18	585.99	0	4458.6	2866.24	1248.41	5.26	1910.83	636.94	127.39	0	0	159.24	76.43	0
47	196	7643.31	796.18	254.78	0	1910.83	636.94	4968.15	15.79	0	1751.59	815.29	0	0	0	0	0
48	1	0	0	25.48	0	0	0	585.99	5.26	1910.83	5095.54	2598.73	0	0	0	0	0
48	2	0	0	0	5.26	1273.89	1751.59	866.24	10.53	1910.83	4777.07	2089.17	0	0	0	0	0
48	3	0	0	50.96	0	636.94	0	356.69	42.11	8280.25	6528.66	3082.8	0	0	0	25.48	0
48	4	0	0	0	0	7006.37	2547.77	1095.54	0	14649.68	6369.43	203.82	0	0	0	0	0

Compt No.	TSP No.	Sundri seedling	Sundri sapling	Sundri pole	Sundri tree	Gewa seedling	Gewa sapling	Gewa pole	Gewa tree	Goran seedling	Goran sapling	Goran pole	Goran tree	Amur seedling	Amur sapling	Amur pole	Amur tree
46	198	0	0	0	0	1910.83	636.94	1222.93	5.26	8280.25	4458.6	127.39	0	15286.62	0	0	0
47	51	0	636.94	1859.87	0	0	1273.89	1222.93	0	1910.83	5732.48	76.43	0	636.94	159.24	0	0
47	52	7006.37	3821.66	2445.86	10.53	5095.54	477.71	891.72	5.26	1273.89	4299.36	152.87	0	0	0	0	0
47	79	0	0	101.91	0	0	796.18	2471.34	5.26	1910.83	6210.19	178.34	0	0	0	25.48	0
47	80	0	477.71	254.78	5.26	0	0	331.21	10.53	3184.71	4458.6	942.68	0	0	0	152.87	0
47	81	3184.71	955.41	2165.61	5.26	636.94	0	840.76	5.26	636.94	1114.65	152.87	0	0	159.24	50.96	0
47	82	0	0	433.12	0	0	796.18	840.76	21.06	1273.89	7006.37	738.85	0	0	0	101.91	0
47	83	0	3662.42	1656.05	0	1910.83	955.41	458.6	26.32	0	0	127.39	0	1273.89	318.47	433.12	10.53
47	90	6369.43	3662.42	2318.47	0	0	2388.54	1171.97	5.26	6369.43	0	713.38	0	0	0	0	0
47	91	0	0	280.25	5.26	0	0	1630.57	31.58	1273.89	7961.78	1044.59	0	0	0	0	0
47	92	2547.77	796.18	229.3	0	5095.54	3980.89	1503.18	5.26	0	5414.01	585.99	0	0	0	229.3	0
47	97	3821.66	477.71	1503.18	0	3184.71	477.71	993.63	10.53	636.94	2707.01	687.9	0	3184.71	1114.65	356.69	0
47	122	0	636.94	382.17	0	0	636.94	382.17	10.53	22929.94	5573.25	713.38	0	0	636.94	50.96	0
47	123	0	0	127.39	0	636.94	0	305.73	0	3184.71	16560.51	1910.83	0	0	0	0	0
47	124	3821.66	796.18	687.9	0	5095.54	3025.48	1579.62	5.26	1273.89	1751.59	764.33	0	0	0	50.96	0
47	128	5095.54	636.94	3617.83	0	0	1114.65	738.85	0	1910.83	1433.12	382.17	0	0	0	0	0
47	129	0	0	866.24	0	1273.89	636.94	2445.86	15.79	25477.71	3343.95	789.81	0	0	0	25.48	0
47	130	4458.6	1114.65	815.29	0	3821.66	796.18	1757.96	10.53	3184.71	318.47	76.43	0	0	318.47	254.78	0
47	131	0	0	127.39	0	636.94	796.18	1783.44	10.53	6369.43	6210.19	1095.54	0	0	0	0	0
47	132	2547.77	796.18	484.08	0	5095.54	955.41	1070.06	26.32	1273.89	0	127.39	0	0	159.24	0	0
47	162	1910.83	2866.24	1070.06	5.26	0	159.24	1936.31	0	5095.54	159.24	101.91	0	0	159.24	0	0
47	163	12738.85	3025.48	1630.57	0	636.94	477.71	2343.95	10.53	1273.89	2070.06	407.64	0	0	0	0	0
47	164	636.94	0	25.48	0	2547.77	477.71	1656.05	15.79	28025.48	11464.97	1554.14	0	0	0	0	0
47	165	0	159.24	25.48	0	10828.03	3503.18	1426.75	0	8280.25	5254.78	738.85	0	0	0	0	0
47	166	636.94	0	0	0	8280.25	6687.9	2420.38	0	7006.37	10987.26	1707.01	0	0	0	0	0
47	168	0	0	0	0	3821.66	3980.89	1146.5	0	25477.71	12420.38	713.38	0	0	0	0	0
47	169	1273.89	0	407.64	0	6369.43	2547.77	1808.92	0	5095.54	3343.95	1452.23	0	0	0	0	0
47	170	3184.71	1433.12	1324.84	0	0	159.24	993.63	5.26	0	0	0	0	0	318.47	25.48	0
47	171	9554.14	796.18	585.99	0	4458.6	2866.24	1248.41	5.26	1910.83	636.94	127.39	0	0	159.24	76.43	0
47	196	7643.31	796.18	254.78	0	1910.83	636.94	4968.15	15.79	0	1751.59	815.29	0	0	0	0	0
48	1	0	0	25.48	0	0	0	585.99	5.26	1910.83	5095.54	2598.73	0	0	0	0	0
48	2	0	0	0	5.26	1273.89	1751.59	866.24	10.53	1910.83	4777.07	2089.17	0	0	0	0	0
48	3	0	0	50.96	0	636.94	0	356.69	42.11	8280.25	6528.66	3082.8	0	0	0	25.48	0

Compt No.	TSP No.	Sundri seedling	Sundri sapling	Sundri pole	Sundri tree	Gewa seedling	Gewa sapling	Gewa pole	Gewa tree	Goran seedling	Goran sapling	Goran pole	Goran tree	Amur seedling	Amur sapling	Amur pole	Amur tree
48	4	0	0	0	0	7006.37	2547.77	1095.54	0	14649.68	6369.43	203.82	0	0	0	0	0
48	5	0	0	127.39	0	12738.85	1433.12	1019.11	15.79	17197.45	10031.85	891.72	0	0	0	0	0
48	6	636.94	477.71	993.63	42.11	5095.54	477.71	636.94	10.53	47133.76	14968.15	2114.65	0	0	318.47	254.78	0
48	7	0	0	585.99	0	3184.71	318.47	1885.35	26.32	16560.51	11624.2	2242.04	0	0	0	0	0
48	42	0	0	356.69	0	9554.14	4777.07	1426.75	0	24840.76	12420.38	1146.5	0	0	0	50.96	0
48	43	0	0	331.21	0	0	0	1299.36	0	1273.89	4299.36	1401.27	0	0	0	0	0
48	44	0	0	0	0	0	0	840.76	0	3821.66	8757.96	1961.78	0	0	0	0	0
48	45	636.94	0	127.39	0	0	0	280.25	15.79	0	0	203.82	0	0	0	0	0
48	46	636.94	159.24	254.78	0	0	0	636.94	21.06	5732.48	2707.01	2038.22	0	0	0	0	0
48	47	0	0	50.96	0	636.94	318.47	25.48	0	3821.66	6847.13	2929.94	0	0	0	0	0
48	48	0	0	0	0	1273.89	636.94	840.76	5.26	3821.66	5891.72	2114.65	0	0	0	0	0
48	49	0	0	0	0	10828.03	2866.24	1324.84	5.26	0	7643.31	2675.16	0	0	0	0	0
48	50	0	0	0	0	636.94	3184.71	2063.69	10.53	1273.89	2707.01	1299.36	0	0	0	0	0
48	84	0	0	662.42	0	10828.03	2547.77	2089.17	5.26	0	0	1121.02	0	0	0	76.43	0
48	85	0	0	127.39	0	0	0	1171.97	0	8280.25	6369.43	1808.92	0	0	0	0	0
48	86	0	0	0	0	636.94	0	509.55	15.79	11464.97	12101.91	2653.5	0	0	0	0	0
48	87	0	0	203.82	0	1273.89	796.18	1426.75	0	8917.2	3980.89	1197.45	0	0	0	0	0
48	88	5732.48	2388.54	1554.14	0	5732.48	1273.89	1171.97	5.26	5732.48	7006.37	1171.97	0	0	0	76.43	0
48	89	0	0	203.82	0	7006.37	4777.07	1656.05	0	5095.54	3184.71	458.6	0	0	0	0	0
48	125	636.94	796.18	305.73	5.26	15923.57	4777.07	1375.8	15.79	31847.13	8917.2	1070.06	0	0	0	178.34	0
48	126	3821.66	796.18	484.08	0	3184.71	3503.18	1171.97	5.26	19745.22	7802.55	1222.93	0	0	0	0	0
48	127	0	159.24	509.55	0	636.94	2070.06	1401.27	10.53	10191.08	3980.89	407.64	0	0	0	50.96	0
48	167	1910.83	477.71	280.25	0	2547.77	2707.01	1222.93	0	21019.11	10191.08	891.72	0	0	0	0	0
48	976	0	0	0	0	7643.31	1592.36	1019.11	26.32	18471.34	8917.2	2649.68	0	0	0	0	0
49	789	1273.89	477.71	356.69	0	636.94	1114.65	1630.57	31.58	6369.43	8121.02	305.73	0	0	0	0	0
49	790	0	0	0	0	636.94	0	687.9	10.53	56687.9	6369.43	738.85	0	0	0	0	0
49	791	0	0	0	0	1910.83	477.71	917.2	26.32	6369.43	2866.24	407.64	0	0	0	0	0
49	796	0	0	0	0	1273.89	0	1121.02	26.32	19745.22	2070.06	585.99	0	0	0	0	0
49	797	0	0	25.48	0	1910.83	477.71	1070.06	15.79	6369.43	2388.54	356.69	0	0	0	0	0
49	798	0	0	0	0	0	477.71	1605.1	21.06	4458.6	5254.78	254.78	0	0	0	0	0
49	799	0	0	76.43	0	0	636.94	1732.48	10.53	4458.6	10350.32	407.64	0	0	0	0	0
49	800	0	0	25.48	0	13375.8	1592.36	993.63	21.06	5732.48	2388.54	585.99	0	0	0	0	0
49	824	0	0	76.43	0	5732.48	2388.54	1095.54	21.06	5095.54	10509.55	458.6	0	0	0	50.96	0

Compt No.	TSP No.	Sundri seedling	Sundri sapling	Sundri pole	Sundri tree	Gewa seedling	Gewa sapling	Gewa pole	Gewa tree	Goran seedling	Goran sapling	Goran pole	Goran tree	Amur seedling	Amur sapling	Amur pole	Amur tree
49	828	0	0	0	0	0	0	1656.05	5.26	9554.14	10191.08	687.9	5.26	0	0	0	0
49	829	0	0	50.96	0	1910.83	0	1503.18	15.79	4458.6	11305.73	662.42	0	0	0	0	0
49	830	0	0	0	0	1273.89	0	1299.36	10.53	5732.48	15764.33	585.99	0	0	0	0	0
49	864	0	0	127.39	0	1273.89	477.71	1197.45	15.79	15923.57	10828.03	280.25	5.26	0	0	0	0
49	865	0	0	0	0	636.94	0	1095.54	10.53	7006.37	10350.32	611.46	0	0	0	0	0
49	866	0	0	0	0	12101.91	1751.59	1248.41	21.06	8917.2	1910.83	764.33	0	0	0	0	0
49	867	0	0	0	0	636.94	0	1452.23	42.11	8917.2	8121.02	229.3	0	0	0	0	0
49	901	0	0	0	0	636.94	0	1121.02	36.85	636.94	5732.48	458.6	0	0	0	0	0
49	902	0	0	0	0	1910.83	1114.65	1503.18	5.26	6369.43	6528.66	1656.05	0	0	0	0	0
49	903	0	0	0	0	9554.14	2070.06	1426.75	36.85	10191.08	1751.59	484.08	0	0	0	0	0
49	904	0	0	0	0	11464.97	2070.06	1350.32	21.06	5732.48	1751.59	509.55	0	0	0	50.96	0
49	905	0	0	76.43	0	12738.85	12420.38	1222.93	15.79	47133.76	23089.17	2140.13	0	0	0	0	0
49	906	0	0	0	0	7006.37	955.41	1783.44	31.58	10828.03	2707.01	433.12	0	0	0	0	0
49	907	0	0	0	0	0	0	1146.5	5.26	9554.14	18312.1	203.82	0	0	0	0	0
49	937	0	0	0	0	1910.83	0	1605.1	0	14649.68	11942.68	305.73	0	0	0	0	0
49	938	0	0	0	0	1273.89	318.47	993.63	5.26	1910.83	3503.18	1987.26	0	0	0	0	0
49	939	0	0	0	5.26	1910.83	0	1121.02	15.79	636.94	4458.6	2012.74	0	0	0	0	21.06
49	940	0	0	0	0	4458.6	2229.3	1834.39	0	15923.57	2229.3	840.76	0	0	0	0	0
49	941	0	0	0	0	10191.08	3503.18	1554.14	31.58	24840.76	9235.67	1783.44	0	0	0	0	0
49	942	0	0	50.96	0	4458.6	796.18	1171.97	47.38	5095.54	11624.2	1783.44	0	0	0	76.43	0
49	943	0	0	789.81	0	4458.6	2070.06	1299.36	15.79	19108.28	11146.5	1248.41	0	0	0	127.39	0
49	973	0	2070.06	229.3	0	7006.37	0	1808.92	21.06	21656.05	10031.85	993.63	0	0	0	0	0
49	974	0	0	331.21	0	8280.25	2866.24	1324.84	21.06	30573.25	7484.08	1146.5	0	0	0	25.48	0
49	975	0	0	0	0	6369.43	1751.59	2089.17	0	19745.22	11146.5	2471.34	0	0	0	0	0
50A	12	0	0	0	0	7006.37	4936.31	3668.79	10.53	5095.54	1910.83	458.6	0	0	0	0	0
50A	36	0	0	127.39	0	3184.71	1751.59	1605.1	78.96	22292.99	7165.61	407.64	0	3184.71	318.47	25.48	0
50A	37	0	0	25.48	10.53	0	0	0	0	4458.6	477.71	203.82	0	0	0	0	0
50A	968	8917.2	636.94	840.76	5.26	9554.14	10191.08	2343.95	15.79	3184.71	4617.83	1044.59	0	636.94	0	0	0
50B	8	0	0	0	0	0	0	942.68	100.02	10191.08	9235.67	866.24	0	0	0	0	0
50B	9	0	0	0	0	0	0	968.15	0	19108.28	10668.79	1707.01	0	0	0	0	0
50B	10	0	159.24	509.55	0	5732.48	636.94	2343.95	10.53	0	0	0	0	0	796.18	25.48	0
50B	11	0	0	0	0	19745.22	9713.38	2420.38	36.85	6369.43	3980.89	1324.84	0	0	0	152.87	0
50B	38	0	0	0	0	1273.89	955.41	1859.87	26.32	9554.14	5095.54	1477.71	0	0	0	0	0

Compt No.	TSP No.	Sundri seedling	Sundri sapling	Sundri pole	Sundri tree	Gewa seedling	Gewa sapling	Gewa pole	Gewa tree	Goran seedling	Goran sapling	Goran pole	Goran tree	Amur seedling	Amur sapling	Amur pole	Amur tree
50B	39	0	0	0	0	636.94	0	2012.74	142.13	12738.85	3821.66	1834.39	0	0	0	0	0
50B	40	0	0	0	0	4458.6	1592.36	1834.39	52.64	15923.57	12420.38	3286.62	0	0	0	0	0
50B	41	0	0	76.43	0	11464.97	0	1579.62	10.53	0	0	203.82	0	0	0	0	0
50B	935	0	0	0	0	4458.6	0	1910.83	15.79	0	0	0	0	0	0	0	0
50B	944	0	0	0	0	0	0	0	0	636.94	3980.89	560.51	0	0	0	0	0
50B	945	0	0	0	0	1273.89	0	1554.14	52.64	12738.85	4936.31	535.03	0	0	159.24	0	0
50B	946	0	0	0	0	0	1910.83	3363.06	57.9	9554.14	8280.25	968.15	0	0	0	0	0
50B	947	0	0	25.48	0	1910.83	2707.01	3464.97	5.26	5732.48	3343.95	407.64	0	0	0	25.48	0
50B	969	0	0	0	0	1273.89	1592.36	1121.02	26.32	3821.66	1273.89	560.51	0	0	0	25.48	0
50B	970	0	0	0	0	7006.37	5891.72	2700.64	47.38	9554.14	4140.13	713.38	0	0	0	0	0
50B	971	0	0	0	0	16560.51	3025.48	3643.31	115.81	636.94	636.94	254.78	0	0	0	0	0
50B	972	0	0	0	0	5732.48	3184.71	1171.97	42.11	5095.54	1273.89	662.42	0	0	0	0	0
51A	643	0	0	0	0	5095.54	1273.89	2063.69	105.28	17197.45	13694.27	5273.89	0	0	0	0	0
51A	859	0	0	0	0	0	0	1579.62	0	2547.77	3343.95	3490.45	0	0	0	0	0
51A	871	0	0	25.48	0	5095.54	955.41	1579.62	10.53	0	796.18	331.21	0	1273.89	159.24	101.91	0
51A	910	0	0	152.87	0	0	159.24	1350.32	10.53	5732.48	3184.71	801.72	0	0	0	25.48	0
51A	911	0	0	25.48	0	18471.34	318.47	1350.32	0	6369.43	3343.95	356.69	0	0	0	0	0
51A	932	0	0	203.82	10.53	1273.89	1910.83	2802.55	78.96	0	1273.89	178.34	0	0	0	0	0
51A	933	0	0	0	0	636.94	1910.83	1197.45	5.26	7643.31	3821.66	280.25	0	0	0	0	0
51A	934	0	0	0	0	636.94	0	662.42	84.22	0	2070.06	458.6	0	0	0	0	0
51A	948	0	0	178.34	0	1273.89	0	1171.97	52.64	5732.48	7802.55	789.81	0	0	0	0	0
51A	949	0	0	76.43	0	0	1114.65	1961.78	121.07	0	0	458.6	0	0	0	25.48	0
51A	950	0	0	50.96	0	3821.66	955.41	2165.61	89.49	5732.48	6687.9	1171.97	0	0	159.24	152.87	0
51B	831	0	0	0	0	14649.68	955.41	1324.84	47.38	52229.3	3821.66	101.91	0	0	0	25.48	0
51B	832	0	0	50.96	0	0	2707.01	1452.23	0	0	5573.25	280.25	0	0	0	0	0
51B	833	0	318.47	76.43	0	3821.66	1433.12	1477.71	15.79	12101.91	3343.95	1681.53	0	0	0	0	0
51B	834	0	0	0	0	1273.89	796.18	3235.67	15.79	33757.96	12261.15	101.91	0	0	0	0	0
51B	860	0	318.47	101.91	0	0	0	1936.31	15.79	6369.43	5573.25	433.12	0	0	0	0	0
51B	861	0	0	0	0	0	318.47	1171.97	36.85	1273.89	4458.6	1273.89	0	0	0	0	0
51B	862	0	0	0	0	4458.6	0	1197.45	10.53	1273.89	1273.89	636.94	0	0	0	0	0
51B	863	0	0	0	0	0	0	993.63	21.06	10191.08	6050.96	993.63	10.53	0	0	0	0
51B	868	0	0	0	0	0	0	1426.75	0	5732.48	3343.95	1171.97	0	0	0	0	0
51B	869	0	0	0	0	1273.89	4140.13	815.29	5.26	636.94	8439.49	713.38	0	0	0	0	0

Compt No.	TSP No.	Sundri seedling	Sundri sapling	Sundri pole	Sundri tree	Gewa seedling	Gewa sapling	Gewa pole	Gewa tree	Goran seedling	Goran sapling	Goran pole	Goran tree	Amur seedling	Amur sapling	Amur pole	Amur tree
51B	870	0	0	0	0	0	318.47	3643.31	73.7	636.94	5414.01	611.46	0	0	0	0	0
51B	897	0	0	0	0	0	2229.3	2547.77	0	636.94	6050.96	993.63	0	0	0	0	0
51B	898	0	0	0	0	3184.71	3343.95	3082.8	10.53	14012.74	16242.04	254.78	0	0	0	0	0
51B	899	0	0	0	0	0	318.47	840.76	26.32	1273.89	2229.3	2063.69	0	0	0	25.48	0
51B	900	0	0	25.48	0	636.94	0	636.94	15.79	22292.99	636.94	1197.45	0	0	0	0	0
51B	908	0	0	0	0	636.94	0	815.29	10.53	7006.37	4936.31	636.94	0	0	796.18	585.99	0
51B	909	0	0	101.91	0	0	2707.01	1299.36	21.06	0	5254.78	687.9	0	0	0	0	0
51B	936	0	0	0	0	2547.77	3662.42	1656.05	21.06	5095.54	3343.95	433.12	0	0	0	25.48	0
52	775	7006.37	2070.06	968.15	21.06	14012.74	2866.24	891.72	15.79	6369.43	5414.01	738.85	0	0	0	0	0
52	783	5095.54	1433.12	840.76	42.11	7006.37	5095.54	1452.23	10.53	5095.54	4299.36	433.12	0	0	0	0	0
52	806	1273.89	636.94	50.96	0	8280.25	2866.24	2216.56	0	3821.66	12898.09	1121.02	0	0	0	0	0
52	807	0	0	0	0	37579.62	16719.75	3796.18	10.53	28662.42	17515.92	866.24	0	0	0	0	0
52	808	1910.83	1433.12	891.72	21.06	1273.89	1273.89	738.85	10.53	3821.66	2547.77	280.25	0	0	0	0	0
52	809	0	0	0	0	5732.48	3184.71	2140.13	10.53	24203.82	6050.96	484.08	0	0	0	0	0
52	819	0	0	0	0	1273.89	1433.12	2089.17	0	33121.02	10668.79	229.3	0	0	0	0	0
52	820	0	0	0	0	7643.31	2866.24	1707.01	21.06	15923.57	5732.48	535.03	0	0	0	0	0
52	821	0	318.47	484.08	0	18471.34	796.18	1426.75	5.26	16560.51	5573.25	407.64	0	0	0	25.48	0
52	822	0	159.24	407.64	0	1273.89	1433.12	1197.45	0	17197.45	1273.89	636.94	0	0	0	25.48	0
52	835	0	0	484.08	0	3184.71	796.18	866.24	0	3184.71	6528.66	662.42	0	0	0	0	0
52	836	0	318.47	127.39	10.53	3184.71	4140.13	1299.36	15.79	4458.6	2388.54	993.63	0	1910.83	0	25.48	0
52	837	0	0	76.43	0	2547.77	1751.59	1808.92	10.53	3184.71	4617.83	535.03	0	636.94	0	0	0
52	838	0	0	178.34	0	0	0	254.78	0	26751.59	18789.81	1808.92	0	1273.89	796.18	229.3	0
52	839	0	0	433.12	0	2547.77	796.18	1554.14	21.06	31847.13	11783.44	1528.66	0	0	0	0	0
52	840	0	0	0	0	4458.6	2388.54	1859.87	26.32	19745.22	8757.96	636.94	0	0	0	0	0
52	854	0	0	815.29	5.26	13375.8	6050.96	1579.62	21.06	19108.28	6687.9	789.81	0	0	0	25.48	0
52	855	0	0	101.91	10.53	11464.97	3662.42	2675.16	10.53	6369.43	6528.66	1656.05	0	0	0	0	0
52	856	0	0	764.33	10.53	20382.17	796.18	2292.99	42.11	0	1751.59	1121.02	0	0	159.24	25.48	0
52	857	0	0	254.78	0	636.94	1910.83	2828.03	36.85	636.94	477.71	76.43	0	0	0	0	0
52	858	0	0	50.96	0	12101.91	955.41	3133.76	10.53	5732.48	1273.89	509.55	0	0	0	25.48	0
52	872	0	0	0	0	1910.83	318.47	2878.98	10.53	1273.89	4299.36	738.85	0	0	0	0	0
52	873	0	0	152.87	0	7006.37	4299.36	1605.1	0	2547.77	8757.96	356.69	0	0	0	50.96	0
52	874	0	0	662.42	0	9554.14	1114.65	1936.31	10.53	0	0	229.3	0	0	159.24	0	0
52	875	0	318.47	76.43	42.11	0	2547.77	1859.87	15.79	8917.2	10031.85	1808.92	0	0	0	50.96	0

Compt No.	TSP No.	Sundri seedling	Sundri sapling	Sundri pole	Sundri tree	Gewa seedling	Gewa sapling	Gewa pole	Gewa tree	Goran seedling	Goran sapling	Goran pole	Goran tree	Amur seedling	Amur sapling	Amur pole	Amur tree
52	876	1910.83	636.94	280.25	0	7006.37	1114.65	4356.69	5.26	14012.74	10350.32	713.38	0	0	0	0	0
52	894	0	0	433.12	0	25477.71	11783.44	4687.9	0	14649.68	4777.07	917.2	0	0	0	0	0
52	895	0	0	203.82	0	15286.62	1114.65	3592.36	0	3821.66	4777.07	331.21	0	0	0	0	0
52	896	0	0	535.03	0	0	0	1324.84	26.32	636.94	955.41	636.94	0	0	0	25.48	0
52	912	0	0	382.17	5.26	1273.89	1592.36	1426.75	5.26	1910.83	2229.3	611.46	0	0	159.24	50.96	0
52	913	0	0	560.51	5.26	6369.43	796.18	713.38	5.26	22292.99	8121.02	2343.95	0	0	0	0	0
52	930	8917.2	1273.89	305.73	0	8280.25	11783.44	5146.5	0	4458.6	3343.95	535.03	0	0	0	0	0
52	931	5095.54	2070.06	1222.93	42.11	6369.43	2547.77	2165.61	15.79	15286.62	9554.14	1019.11	0	0	318.47	101.91	0
53	53	0	0	76.43	0	2547.77	636.94	840.76	57.9	5095.54	7006.37	254.78	0	0	0	0	0
53	133	0	0	789.81	5.26	0	2229.3	2649.68	15.79	4458.6	3821.66	152.87	0	0	0	0	0
53	134	0	0	152.87	0	0	0	254.78	5.26	0	0	0	0	0	0	0	0
53	710	2547.77	477.71	611.46	10.53	5095.54	636.94	1401.27	21.06	13375.8	15127.39	3745.22	0	0	0	25.48	0
53	711	0	0	50.96	0	7006.37	3343.95	1910.83	10.53	12738.85	12579.62	993.63	0	0	0	0	0
53	724	4458.6	955.41	1350.32	0	4458.6	955.41	1503.18	21.06	16560.51	2229.3	2445.86	0	1273.89	636.94	25.48	0
53	737	0	0	0	0	24203.82	12738.85	6267.52	110.54	17834.39	8598.73	1350.32	0	0	0	0	0
53	738	0	0	0	0	6369.43	3662.42	2140.13	0	13375.8	5891.72	2242.04	0	0	0	0	0
53	739	0	0	25.48	5.26	2547.77	955.41	1171.97	78.96	23566.88	9394.9	4535.03	0	0	0	0	0
53	740	5095.54	0	458.6	0	14649.68	3821.66	509.55	0	24203.82	2070.06	382.17	0	0	0	25.48	0
53	755	2547.77	1592.36	458.6	52.64	0	477.71	1299.36	142.13	15286.62	8598.73	1222.93	5.26	0	0	25.48	0
53	756	636.94	955.41	840.76	31.58	1273.89	636.94	687.9	21.06	13375.8	16401.27	2649.68	0	0	0	0	0
53	757	0	0	101.91	0	3821.66	318.47	254.78	47.38	22292.99	8598.73	5834.39	0	0	0	0	0
53	758	0	318.47	356.69	0	3821.66	636.94	2445.86	47.38	9554.14	5095.54	1477.71	0	0	0	0	0
53	771	0	318.47	382.17	21.06	7006.37	3821.66	1019.11	100.02	14012.74	10828.03	2649.68	0	0	0	0	0
53	772	0	0	331.21	0	1910.83	318.47	1095.54	5.26	17834.39	20382.17	3210.19	0	0	0	0	0
53	773	3821.66	318.47	687.9	5.26	2547.77	3184.71	2292.99	73.7	12101.91	10828.03	2140.13	0	0	0	0	0
53	774	26751.59	1910.83	203.82	0	0	0	331.21	0	1910.83	318.47	152.87	0	0	0	0	0
53	784	0	0	0	0	1273.89	3184.71	1452.23	0	35031.85	19108.28	305.73	0	0	0	0	0
53	785	0	955.41	178.34	0	4458.6	318.47	713.38	10.53	4458.6	7006.37	1350.32	0	0	159.24	0	0
53	786	0	0	305.73	0	1273.89	0	3057.32	21.06	2547.77	3980.89	1324.84	0	0	0	0	0
53	787	0	0	0	0	0	0	585.99	63.17	0	0	1961.78	0	0	0	0	0
53	801	6369.43	159.24	101.91	0	67515.92	3980.89	1808.92	0	98726.11	11146.5	1503.18	0	0	0	0	0
53	802	0	636.94	178.34	0	6369.43	2547.77	2598.73	26.32	3184.71	4140.13	433.12	0	0	0	0	0
53	803	0	0	101.91	0	1910.83	318.47	1375.8	10.53	5732.48	3025.48	815.29	0	0	0	0	0

Compt No.	TSP No.	Sundri seedling	Sundri sapling	Sundri pole	Sundri tree	Gewa seedling	Gewa sapling	Gewa pole	Gewa tree	Goran seedling	Goran sapling	Goran pole	Goran tree	Amur seedling	Amur sapling	Amur pole	Amur tree
53	804	0	0	76.43	0	0	1273.89	1656.05	57.9	636.94	2866.24	560.51	0	0	0	25.48	0
53	805	0	0	229.3	0	2547.77	159.24	1197.45	36.85	0	6369.43	229.3	0	0	0	0	0
53	823	0	796.18	305.73	0	6369.43	3025.48	1452.23	0	31210.19	18789.81	4433.12	0	0	0	0	0
54	639	6369.43	159.24	1426.75	10.53	6369.43	1433.12	1299.36	68.43	18471.34	6687.9	3108.28	0	0	0	0	0
54	640	14012.74	3025.48	1605.1	0	9554.14	1273.89	1961.78	57.9	18471.34	8598.73	3388.54	0	0	0	0	0
54	641	1910.83	0	993.63	10.53	11464.97	2707.01	1477.71	10.53	15923.57	6528.66	3541.4	0	0	0	0	0
54	642	0	0	127.39	0	3821.66	1751.59	3592.36	10.53	24840.76	7961.78	2191.08	0	0	0	0	0
54	643	0	0	0	0	5095.54	1273.89	2063.69	105.28	17197.45	13694.27	5273.89	0	0	0	0	0
54	644	7643.31	2707.01	1426.75	0	10191.08	1910.83	1961.78	0	15286.62	7324.84	2038.22	0	0	0	0	0
54	645	0	318.47	509.55	0	4458.6	1114.65	560.51	10.53	14012.74	6687.9	2318.47	0	0	0	0	0
54	646	11464.97	3343.95	3006.37	0	5095.54	1751.59	917.2	15.79	15286.62	6528.66	2318.47	0	0	0	0	0
54	647	7643.31	1433.12	1426.75	10.53	10191.08	2866.24	1299.36	5.26	12101.91	5891.72	2318.47	0	0	0	0	0
54	648	1910.83	0	356.69	0	3184.71	2229.3	3286.62	31.58	36942.68	6847.13	1834.39	0	0	0	0	0
54	651	12101.91	2229.3	560.51	0	3821.66	2388.54	3235.67	31.58	17834.39	16242.04	2140.13	0	0	0	25.48	0
54	652	7643.31	477.71	917.2	0	1910.83	636.94	407.64	0	10828.03	9554.14	3184.71	0	0	0	0	0
54	653	100636.9	8121.02	2547.77	200.03	5732.48	955.41	1401.27	21.06	0	1273.89	636.94	0	636.94	636.94	433.12	0
54	654	4458.6	1273.89	866.24	0	1910.83	796.18	1197.45	10.53	22929.94	16878.98	7464.97	0	0	0	0	0
54	657	11464.97	1433.12	458.6	0	16560.51	4299.36	1605.1	78.96	15286.62	7484.08	3133.76	0	0	0	0	0
54	658	1273.89	318.47	0	0	5732.48	2229.3	942.68	21.06	9554.14	6210.19	3719.75	0	0	0	0	0
54	659	2547.77	955.41	1452.23	15.79	23566.88	5414.01	2878.98	26.32	19745.22	13375.8	3261.15	0	0	0	0	0
54	660	0	0	25.48	0	0	0	0	0	21019.11	2388.54	0	0	0	0	0	0
54	668	3184.71	796.18	484.08	0	9554.14	3980.89	815.29	21.06	28025.48	9713.38	2089.17	0	0	0	0	0
54	669	2547.77	1433.12	738.85	0	8280.25	2388.54	1375.8	0	10828.03	5254.78	2343.95	0	0	0	0	0
54	670	3184.71	1114.65	382.17	0	5732.48	1910.83	2216.56	10.53	23566.88	22929.94	5630.57	0	0	0	0	0
54	671	0	0	203.82	0	2547.77	477.71	815.29	42.11	21019.11	16878.98	9146.5	0	0	0	0	0
54	679	4458.6	636.94	840.76	10.53	19108.28	2866.24	2700.64	89.49	18471.34	8280.25	3235.67	0	0	0	0	0
54	680	0	0	25.48	0	7006.37	2388.54	1783.44	26.32	21019.11	17834.39	5477.71	0	0	0	0	0
54	681	0	0	662.42	0	17197.45	2388.54	3490.45	31.58	9554.14	3980.89	4942.68	0	0	0	0	0
54	682	15286.62	3343.95	3464.97	15.79	5732.48	1273.89	993.63	42.11	5732.48	3662.42	1273.89	0	0	0	0	0
54	683	12738.85	6847.13	1707.01	5.26	7643.31	1433.12	840.76	15.79	18471.34	8121.02	2216.56	0	0	0	0	0
54	695	0	0	0	0	8917.2	4458.6	1757.96	36.85	27388.54	14171.97	1885.35	0	0	0	0	0
54	696	5732.48	4299.36	3082.8	0	8280.25	955.41	840.76	21.06	23566.88	3980.89	2445.86	0	0	0	0	0
54	697	10191.08	2707.01	993.63	0	10191.08	1433.12	891.72	0	15286.62	7961.78	2649.68	0	0	0	0	0

Compt No.	TSP No.	Sundri seedling	Sundri sapling	Sundri pole	Sundri tree	Gewa seedling	Gewa sapling	Gewa pole	Gewa tree	Goran seedling	Goran sapling	Goran pole	Goran tree	Amur seedling	Amur sapling	Amur pole	Amur tree
54	698	0	0	0	0	8917.2	5095.54	2624.2	0	22292.99	10350.32	2318.47	0	0	0	0	0
54	699	0	0	0	0	22292.99	3662.42	2216.56	68.43	34394.9	6369.43	3643.31	0	0	0	0	0
54	706	0	0	0	0	4458.6	1433.12	1579.62	26.32	15286.62	13375.8	891.72	0	0	0	0	0
54	707	0	0	0	0	14012.74	5414.01	2012.74	100.02	6369.43	5414.01	1044.59	0	0	0	0	0
54	708	0	0	0	0	15286.62	1751.59	3031.85	36.85	5095.54	6210.19	2878.98	0	0	0	0	0
54	709	0	0	1350.32	31.58	0	0	484.08	42.11	17834.39	22292.99	5528.66	0	0	0	0	0
54	725	0	0	0	0	8280.25	2707.01	1834.39	205.3	7643.31	4777.07	866.24	0	0	0	0	0
54	726	0	0	0	0	29936.31	4936.31	3337.58	36.85	3821.66	2547.77	1936.31	0	0	0	0	0
54	727	0	0	25.48	0	3184.71	318.47	3133.76	100.02	14012.74	11783.44	1936.31	0	0	0	0	0
55	655	0	0	0	0	0	0	968.15	10.53	4458.6	7643.31	1579.62	0	0	0	0	0
55	656	0	0	382.17	0	22929.94	3662.42	1783.44	15.79	48407.64	13057.32	713.38	0	0	0	0	0
55	672	0	0	0	0	23566.88	5254.78	2318.47	0	41401.27	11146.5	738.85	0	0	0	0	0
55	673	0	0	0	0	3184.71	477.71	1222.93	47.38	1910.83	2547.77	2012.74	0	0	0	0	0
55	674	0	0	0	0	636.94	318.47	993.63	5.26	51592.36	7643.31	407.64	0	0	0	0	0
55	675	1273.89	0	356.69	0	0	0	1222.93	42.11	4458.6	5254.78	1936.31	0	0	0	0	0
55	676	0	0	0	0	1273.89	318.47	407.64	15.79	2547.77	6687.9	4382.17	0	0	0	0	0
55	677	0	0	0	0	17197.45	7006.37	1477.71	5.26	40764.33	12261.15	1222.93	0	0	0	0	0
55	678	0	0	229.3	0	24203.82	8280.25	3643.31	10.53	19108.28	3821.66	1070.06	0	0	0	0	0
55	700	0	0	0	0	7006.37	3343.95	2547.77	0	21019.11	11942.68	560.51	0	0	0	0	0
55	701	0	0	0	0	1910.83	1910.83	1910.83	63.17	5732.48	2866.24	509.55	0	0	0	0	0
55	702	0	0	0	0	13375.8	4458.6	1936.31	31.58	41401.27	8121.02	1732.48	0	0	0	0	0
55	703	0	0	0	0	1910.83	955.41	1656.05	31.58	10828.03	8917.2	942.68	0	0	0	0	0
55	705	0	0	25.48	0	9554.14	3184.71	1273.89	10.53	26114.65	6847.13	789.81	0	0	0	0	0
55	728	0	0	0	0	636.94	0	968.15	21.06	7643.31	5891.72	1834.39	0	0	0	0	0
55	729	0	0	0	0	8280.25	5095.54	1987.26	21.06	19108.28	20541.4	1885.35	0	0	0	0	0
55	730	0	0	0	0	26114.65	0	1222.93	47.38	0	318.47	891.72	0	0	0	0	0
55	731	0	0	0	0	7643.31	796.18	1324.84	15.79	18471.34	20859.87	1146.5	0	0	0	0	0
55	732	2547.77	0	203.82	0	5095.54	1273.89	1375.8	15.79	14012.74	10668.79	713.38	0	0	0	0	0
55	733	0	0	0	0	0	0	1910.83	5.26	0	0	484.08	0	0	0	0	0
55	734	0	0	0	0	0	0	331.21	0	0	0	305.73	0	0	0	0	0
55	735	0	0	0	0	4458.6	1114.65	1350.32	15.79	0	0	585.99	0	0	0	0	0
55	736	0	0	0	0	4458.6	477.71	1936.31	5.26	3184.71	955.41	713.38	0	0	0	0	0
55	759	0	0	0	0	5732.48	1273.89	1681.53	26.32	5732.48	1273.89	1019.11	0	0	0	0	0

Compt No.	TSP No.	Sundri seedling	Sundri sapling	Sundri pole	Sundri tree	Gewa seedling	Gewa sapling	Gewa pole	Gewa tree	Goran seedling	Goran sapling	Goran pole	Goran tree	Amur seedjing	Amur sapling	Amur pole	Amur tree
55	760	0	0	0	0	636.94	1592.36	1834.39	21.06	1273.89	1433.12	636.94	0	0	0	0	0
55	761	0	0	0	0	6369.43	636.94	1579.62	31.58	2547.77	796.18	713.38	0	0	0	0	0
55	762	0	0	0	0	1273.89	796.18	1783.44	5.26	5732.48	796.18	585.99	0	0	0	0	0
55	763	0	0	0	0	4458.6	1114.65	1656.05	15.79	12101.91	7802.55	662.42	0	0	0	0	0
55	764	0	0	0	0	15923.57	2547.77	1579.62	36.85	17197.45	10987.26	1528.66	0	0	0	0	0
55	765	0	0	0	0	13375.8	3184.71	1299.36	0	29299.36	13057.32	1299.36	0	0	0	0	0
55	766	0	0	0	0	2547.77	477.71	1044.59	26.32	1910.83	1114.65	840.76	0	0	0	0	0
55	767	0	0	25.48	0	3184.71	796.18	560.51	10.53	8917.2	4140.13	254.78	0	0	0	0	0
55	768	0	0	0	0	2547.77	0	1121.02	15.79	0	636.94	840.76	0	0	0	0	0
55	769	0	0	254.78	0	5095.54	2547.77	1222.93	26.32	5095.54	2229.3	840.76	0	0	0	0	0
55	770	0	0	0	0	11464.97	1592.36	1910.83	15.79	0	318.47	50.96	0	0	0	0	0
55	788	0	0	76.43	0	5732.48	1433.12	866.24	5.26	3184.71	1433.12	407.64	0	0	0	0	0
55	792	0	318.47	50.96	0	2547.77	1433.12	1350.32	26.32	3184.71	6847.13	433.12	0	0	0	0	0
55	793	0	0	0	0	4458.6	1433.12	1630.57	31.58	12101.91	15445.86	687.9	0	0	0	0	0
55	794	0	0	76.43	0	8917.2	6050.96	917.2	0	28025.48	10668.79	1452.23	0	0	0	0	0
55	795	0	0	178.34	0	3184.71	636.94	1324.84	31.58	10191.08	19426.75	611.46	0	0	0	0	0
55	825	0	0	178.34	0	636.94	318.47	1401.27	15.79	21656.05	14012.74	585.99	0	0	0	0	0
55	826	0	0	0	0	3821.66	0	1273.89	21.06	13375.8	17675.16	636.94	0	0	0	0	0
55	827	0	0	0	0	10828.03	5573.25	1044.59	0	50318.47	17675.16	1885.35	0	0	0	0	0

Appendix 22: Mean and confidence intervals of the data of sundri seedlings from 1203 Temporary Sample Plots falling in 55 compartments in the Sundarbans based on data generated during FRMP Forest Inventory of the Sundarbans in 1996 and 1997.

Confidence Intervals

Variable	N	Mean	StDev	SE Mean	95.0 % CI	
1Seed	31	24081	21559	3872	(16173,	31988)
2Seed	21	34607	25186	5496	(23143,	46072)
3Seed	17	30423	17392	4218	(21481,	39365)
4Seed	17	28063	17102	4148	(19270,	36856)
5Seed	17	39828	20325	4930	(29377,	50278)
6Seed	21	17319	14188	3096	(10861,	23777)
7Seed	30	20488	18053	3296	(13747,	27229)
8Seed	36	21143	15308	2551	(15964,	26322)
9Seed	36	21674	15741	2623	(16348,	27000)
10Seed	19	28998	17894	4105	(20373,	37622)
11Seed	15	34565	22851	5900	(21910,	47219)
12Seed	19	46162	21191	4862	(35948,	56376)
13Seed	19	40429	28495	6537	(26695,	54163)
14Seed	13	41205	30217	8381	(22946,	59465)
15Seed	15	64968	24782	6399	(51244,	78692)
16Seed	20	23089	13732	3071	(16662,	29516)
17Seed	24	17702	14730	3007	(11482,	23921)
18Seed	37	5182	5821	957	(3241,	7122)
19Seed	22	5761	13403	2858	(-181,	11704)
20Seed	26	2352	3286	645	(1024,	3679)
21Seed	14	48726	28223	7543	(32431,	65021)
22Seed	13	37433	25462	7062	(22046,	52819)
23Seed	11	27389	19017	5734	(14613,	40164)
24Seed	17	48745	28036	6800	(34330,	63159)
25Seed	12	30308	21079	6085	(16915,	43701)
26Seed	12	34820	31551	9108	(14773,	54866)
27Seed	15	32484	22355	5772	(20104,	44864)
28Seed	12	45594	27947	8068	(27838,	63351)
29Seed	14	30391	19805	5293	(18956,	41826)
30Seed	16	23248	18558	4640	(13359,	33137)
31Seed	25	14522	11900	2380	(9610,	19435)
32Seed	16	31728	15419	3855	(23511,	39944)
33Seed	15	16433	12773	3298	(9359,	23507)
34Seed	12	16083	11362	3280	(8864,	23302)

35Seed	20	14618	11791	2637	(	9100,	20136)
36Seed	21	7431	8822	1925	(	3415,	11447)
37Seed	16	3105	6377	1594	(	-293,	6503)
38Seed	21	4368	5673	1238	(	1785,	6950)
39Seed	22	30892	22282	4751	(	21012,	40771)
40Seed	12	9395	8305	2398	(	4118,	14672)
41Seed	19	1877	5931	1361	(	-982,	4736)
42Seed	20	2516	6156	1377	(	-365,	5397)
43Seed	29	4195	4870	904	(	2342,	6048)
44Seed	26	8329	11932	2340	(	3510,	13149)
45Seed	26	10314	10209	2002	(	6190,	14437)
46Seed	29	857	2009	373	(	92,	1621)
47Seed	29	2636	3352	622	(	1361,	3911)
48Seed	27	519	1322	254	(	-4,	1042)
49Seed	33	38.6	221.8	38.6	(	-40.0,	117.2)
50Seed	21	425	1946	425	(	-461,	1310)
51Seed	29	0.00000	0.00000	0.00000	(	0.00000,	0.00000)
52Seed	33	946	2236	389	(	153,	1738)
53Seed	33	946	2236	389	(	153,	1738)
54Seed	39	3789	4802	769	(	2232,	5346)
55Seed	43	88.9	430.2	65.6	(	-43.5,	221.3)

Notes: 1Seed to 55Seed refer to sundri seedlings from the TSPs of compartment nos. 1 to 55, figures under column N refer to the the number of TSPs from which data of each compartment were collected; StDev = Standard deviation; SE Mean = Standard error of the mean; 95 % CI= Confidence Intervals at probability of 95% i.e. 5% error is accepted and precision of the result is 95 per cent. The area of each TSP for the study of regeneration of seedlings was 15.70 sq. m. The original values have been converted to that of 1 ha (i.e. 10000 sq. m) by multiplying with a factor of 636.94266752 for the purpose of this calculation.

Appendix 23: Mean and confidence intervals of the data of sundri saplings from 1203 Temporary Sample Plots falling in 55 compartments in the Sundarbans based on data generated during FRMP Forest Inventory of the Sundarbans in 1996 and 1997.

Confidence Intervals

Variable	N	Mean	StDev	SE Mean		95.0 % CI	
1Sap	31	3072	2490	447	(	2158,	3985)
2Sap	21	3321	3188	696	(	1870,	4772)
3Sapl	17	2154	1132	274	(	1572,	2736)
4Sapl	17	2979	2533	614	(	1676,	4281)
5Sapl	17	3110	1310	318	(	2436,	3783)
6Sapl	21	1046	910	199	(	632,	1461)
7Sapl	30	2240	1843	336	(	1552,	2928)
8Sapl	36	2220	1642	274	(	1665,	2776)
9Sapl	36	3286	2162	360	(	2555,	4018)
10Sapl	19	3227	2742	629	(	1905,	4548)
11Sapl	15	3737	2222	574	(	2506,	4967)
12Sapl	19	3336	1723	395	(	2505,	4166)
13Sapl	19	3377	2608	598	(	2120,	4635)
14Sapl	13	5181	2746	762	(	3522,	6841)
15Sapl	15	5180	2476	639	(	3809,	6552)
16Sapl	20	2428	1432	320	(	1758,	3098)
17Sapl	24	2017	1452	296	(	1404,	2630)
18Sapl	37	1601	2011	331	(	931,	2271)
19Sapl	22	1354	2481	529	(	253,	2454)
20Sapl	26	1531	3145	617	(	261,	2801)
21Sapl	14	6131	4122	1102	(	3751,	8510)
22Sapl	13	4250	3628	1006	(	2058,	6443)
23Sapl	11	4473	3822	1152	(	1905,	7041)
24Sapl	17	5714	3903	947	(	3707,	7721)
25Sapl	12	3835	2110	609	(	2494,	5175)
26Sapl	12	4737	3539	1022	(	2489,	6986)
27Sapl	15	4023	2352	607	(	2721,	5326)
28Sapl	12	4406	2343	676	(	2917,	5894)
29Sapl	14	3094	1470	393	(	2245,	3942)
30Sapl	16	2329	1714	428	(	1416,	3242)
31Sapl	25	2070	1820	364	(	1319,	2821)
32Sapl	16	5772	3127	782	(	4106,	7438)
33Sapl	15	3089	1902	491	(	2036,	4143)
34Sapl	12	2428	1556	449	(	1440,	3417)

35Sapl	20	2357	1563	350	(	1625,	3088)
36Sapl	21	773	764	167	(	426,	1121)
37Sapl	16	398.1	334.0	83.5	(	220.1,	576.1)
38Sapl	21	645	759	166	(	299,	990)
39Sapl	22	4089	2912	621	(	2799,	5380)
40Sapl	12	2110	2273	656	(	665,	3554)
41Sapl	19	721	1817	417	(	-155,	1596)
42Sapl	20	637	1037	232	(	152,	1122)
43Sapl	29	1159	1643	305	(	534,	1783)
44Sapl	26	1004	1148	225	(	541,	1468)
45Sapl	26	1745	2064	405	(	912,	2579)
46Sapl	29	401	709	132	(	131,	671)
47Sapl	29	950	1221	227	(	486,	1414)
48Sapl	27	194.6	498.4	95.9	(	-2.5,	391.8)
49Sapl	33	77.2	367.3	63.9	(	-53.0,	207.4)
50Sapl	21	37.9	141.6	30.9	(	-26.5,	102.4)
51Sapl	29	22.0	82.1	15.3	(	-9.3,	53.2)
52Sapl	33	323	612	107	(	106,	540)
53Sapl	33	323	612	107	(	106,	540)
54Sapl	39	1204	1901	304	(	588,	1821)
55Sapl	43	7.41	48.57	7.41	(	-7.54,	22.35)

Notes: 1Sapl to 55Sapl refer to sundri saplings from the TSPs of compartment nos. 1 to 55, figures under column N refer to the the number of TSPs from which data of each compartment were collected; StDev = Standard deviation; SE Mean = Standard error of the mean; 95 % CI= Confidence Intervals at probability of 95% i.e. 5% error is accepted and precision of the result is 95 per cent. The area of each TSP for the study of saplings was 62.80 sq. m. The original values have been converted to that of 1 ha (i.e. 10000 sq. m) by multiplying with a factor of 159.2356688 for the purpose of this calculation.

Appendix 24: Mean and confidence intervals of the data of sundri poles from 1203 Temporary Sample Plots falling in 55 compartments in the Sundarbans based on data generated during FRMP Forest Inventory of the Sundarbans in 1996 and 1997.

Confidence Intervals

Variable	N	Mean	StDev	SE Mean		95.0 % CI	
1Pole	31	1374	806	145	(	1078,	1670)
2Pole	21	1973	1066	233	(	1487,	2458)
3Pole	17	1830	777	189	(	1430,	2230)
4Pole	17	1652	685	166	(	1299,	2004)
5Pole	17	1917	824	200	(	1493,	2340)
6Pole	21	1473	1005	219	(	1016,	1930)
7Pole	30	1276	808	148	(	975,	1578)
8pole	36	1323	770	128	(	1063,	1584)
9Pole	36	1502	961	160	(	1177,	1828)
10Pole	19	2088	897	206	(	1656,	2520)
11Pole	15	2070	734	190	(	1664,	2477)
12Pole	19	1676	673	154	(	1352,	2000)
13Pole	19	1653	945	217	(	1198,	2109)
14Pole	13	1497	538	149	(	1172,	1822)
15Pole	15	1848	581	150	(	1526,	2170)
16Pole	20	1587	776	173	(	1224,	1950)
17Pole	24	1051	794	162	(	716,	1386)
18Pole	37	1120	704	116	(	885,	1354)
19Pole	22	829.2	435.8	92.9	(	636.0,	1022.4)
20Pole	26	888	512	101	(	681,	1095)
21Pole	14	1516	557	149	(	1194,	1837)
22Pole	13	1168	761	211	(	708,	1628)
23Pole	11	1533	694	209	(	1067,	2000)
24Pole	17	1640	516	125	(	1374,	1905)
25Pole	12	1679	1212	350	(	909,	2449)
26Pole	12	1839	961	277	(	1228,	2449)
27Pole	15	1371	570	147	(	1055,	1686)
28Pole	12	1747	1106	319	(	1044,	2450)
29Pole	14	1634	906	242	(	1111,	2157)
30Pole	16	1479	711	178	(	1101,	1858)
31Pole	25	920	588	118	(	678,	1163)
32Pole	16	1282	902	226	(	801,	1763)
33Pole	15	1189	597	154	(	858,	1520)

34Pole	12	934	593	171	(	557,	1311)
35Pole	20	855	760	170	(	499,	1210)
36Pole	21	858	636	139	(	568,	1147)
37Pole	16	615	448	112	(	376,	853)
38Pole	21	814	463	101	(	603,	1025)
39Pole	22	1656	856	183	(	1277,	2036)
40Pole	12	970	650	188	(	557,	1383)
41Pole	19	759	520	119	(	508,	1010)
42Pole	20	600	532	119	(	351,	849)
43Pole	29	1080	962	179	(	714,	1446)
44Pole	26	1068	887	174	(	710,	1426)
45Pole	26	957	806	158	(	632,	1283)
46Pole	29	717	688	128	(	455,	979)
47Pole	29	886	920	171	(	536,	1235)
48Pole	27	268.0	359.0	69.1	(	126.0,	410.0)
49Pole	33	67.2	158.6	27.6	(	10.9,	123.4)
50Pole	21	76.4	208.2	45.4	(	-18.4,	171.2)
51Pole	29	36.9	58.8	10.9	(	14.5,	59.3)
52Pole	33	355.9	334.3	58.2	(	237.4,	474.4)
53Pole	33	355.9	334.3	58.2	(	237.4,	474.4)
54Pole	39	812	938	150	(	508,	1116)
55Pole	43	47.4	99.4	15.2	(	16.8,	78.0)

Notes: 1Pole to 55Pole refer to sundri poles from the TSPs of compartment nos. 1 to 55, figures under column N refer to the the number of TSPs from which data of each compartment were collected; StDev = Standard deviation; SE Mean = Standard error of the mean; 95 % CI= Confidence Intervals at probability of 95% i.e. 5% error is accepted and precision of the result is 95 per cent. The area of each TSP for the study of poles was 392.50 sq. m. The original values have been converted to that of 1 ha (i.e. 10000 sq. m) by multiplying with a factor of 25.47770701 for the purpose of this calculation.

Appendix 25: Mean and confidence intervals of the data of sundri trees from 1203 Temporary Sample Plots falling in 55 compartments in the Sundarbans based on data generated during FRMP Forest Inventory of the Sundarbans in 1996 and 1997.

Confidence Intervals

Variable	N	Mean	StDev	SE Mean	95.0 % CI
1Tree	31	155.5	100.5	18.1	(118.7, 192.4)
2Tree	21	164.9	95.7	20.9	(121.4, 208.5)
3Tree	17	187.6	171.4	41.6	(99.5, 275.8)
4Tree	17	172.5	94.4	22.9	(123.9, 221.0)
5Tree	17	127.9	93.5	22.7	(79.8, 176.0)
6Tree	21	81.7	81.5	17.8	(44.6, 118.8)
7Tree	30	83.0	70.6	12.9	(56.6, 109.4)
8tree	36	107.5	115.6	19.3	(68.4, 146.6)
9Tree	36	69.6	84.0	14.0	(41.2, 98.0)
10Tree	19	212.2	126.6	29.0	(151.2, 273.2)
11Tree	15	136.5	131.6	34.0	(63.6, 209.4)
12Tree	19	134.9	81.8	18.8	(95.5, 174.3)
13Tree	19	281.5	171.6	39.4	(198.8, 364.2)
14Tree	13	240.1	125.7	34.9	(164.1, 316.1)
15Tree	15	325.0	89.8	23.2	(275.2, 374.7)
16Tree	20	174.0	120.8	27.0	(117.4, 230.5)
17Tree	24	124.6	137.9	28.1	(66.4, 182.8)
18Tree	37	108.8	105.6	17.4	(73.6, 144.0)
19Tree	22	146.9	124.2	26.5	(91.9, 202.0)
20Tree	26	169.1	66.8	13.1	(142.1, 196.1)
21Tree	14	238.8	91.3	24.4	(186.1, 291.5)
22Tree	13	281.0	135.1	37.5	(199.4, 362.6)
23Tree	11	278.5	155.7	47.0	(173.9, 383.1)
24Tree	17	187.3	106.6	25.9	(132.5, 242.2)
25Tree	12	136.0	77.5	22.4	(86.7, 185.2)
26Tree	12	137.3	83.0	24.0	(84.6, 190.0)
27Tree	15	127.4	105.1	27.1	(69.2, 185.6)
28Tree	12	116.2	66.6	19.2	(73.9, 158.6)
29Tree	14	165.1	76.8	20.5	(120.7, 209.4)
30Tree	16	164.5	81.9	20.5	(120.9, 208.1)
31Tree	25	123.4	62.2	12.4	(97.7, 149.1)
32Tree	16	97.4	46.5	11.6	(72.6, 122.1)
33Tree	15	187.0	69.5	18.0	(148.5, 225.5)

34Tree	12	174.2	84.6	24.4	(	120.4,	227.9)
35Tree	20	54.22	37.30	8.34	(	36.76,	71.68)
36Tree	21	118.1	76.9	16.8	(	83.1,	153.0)
37Tree	16	111.5	73.9	18.5	(	72.2,	150.9)
38Tree	21	125.8	96.9	21.1	(	81.7,	169.9)
39Tree	22	168.9	111.9	23.9	(	119.3,	218.5)
40Tree	12	129.8	67.6	19.5	(	86.9,	172.8)
41Tree	19	12.74	22.70	5.21	(	1.80,	23.68)
42Tree	20	9.74	15.86	3.55	(	2.31,	17.16)
43Tree	29	34.31	45.58	8.46	(	16.97,	51.64)
44Tree	26	43.9	61.1	12.0	(	19.3,	68.6)
45Tree	26	50.6	81.1	15.9	(	17.8,	83.4)
46Tree	29	1.452	3.113	0.578	(	0.268,	2.636)
47Tree	29	1.089	2.586	0.480	(	0.105,	2.072)
48Tree	27	1.95	8.15	1.57	(	-1.27,	5.17)
49Tree	33	0.159	0.916	0.159	(	-0.165,	0.484)
50Tree	21	0.752	2.517	0.549	(	-0.394,	1.897)
51Tree	29	0.363	1.955	0.363	(	-0.381,	1.107)
52Tree	33	6.54	12.76	2.22	(	2.02,	11.06)
53Tree	33	6.54	12.76	2.22	(	2.02,	11.06)
54Tree	39	7.96	32.24	5.16	(	-2.49,	18.42)
55Tree	43	0.00000	0.00000	0.00000	(	0.00000,	0.00000)

Notes: 1Tree to 55Tree refer to sundri Trees from the TSPs of compartment nos. 1 to 55, figures under column N refer to the the number of TSPs from which data of each compartment were collected; StDev = Standard deviation; SE Mean = Standard error of the mean; 95 % CI= Confidence Intervals at probability of 95% i.e. 5% error is accepted and precision of the result is 95 per cent. The area of each TSP for the study of Trees was 1899.70 sq. m. The original values have been converted to that of 1 ha (i.e. 10000 sq. m) by multiplying with a factor of 5.263989051for the purpose of this calculation.

Appendix 26: Data on the mean number of saplings of nine tree species in Temporary Sample Plots (TSPs) of three compartments (32, 36 and 38) harvested for top dying affected sundri during 1990-92 and four neighbouring compartments (16, 31, 35 and 41) where top dying sundri have not been harvested in the Sundarbans.

OBS	COMPT	TSPNO	SAP201	SAP203	SAP215	SAP216	SAP219	SAP222	SAP224	SAP226	SAP228
1	16	106	1	0	2	3	0	0	0	0	3
2	16	107	0	0	1	1	0	0	0	1	5
3	16	146	0	0	0	2	0	0	0	0	5
4	16	147	2	0	0	0	0	0	0	0	4
5	16	148	0	0	5	2	0	0	0	0	1
6	16	345	1	0	0	3	0	0	1	1	4
7	16	379	0	0	2	2	0	0	0	0	1
8	16	380	0	0	5	1	0	0	0	0	4
9	16	381	0	0	5	1	0	0	0	0	5
10	16	382	0	0	3	4	0	0	0	0	5
11	16	383	0	0	5	0	0	0	0	0	4
12	16	384	0	0	0	0	0	0	0	0	3
13	16	385	0	0	4	5	0	0	0	0	5
14	16	386	0	0	2	1	0	0	0	0	1
15	16	416	3	0	3	0	0	0	0	0	3
16	16	417	3	0	0	0	0	0	0	0	5
17	16	418	0	0	2	0	0	0	0	0	4
18	16	419	5	0	1	0	1	0	0	0	5
19	16	420	0	0	2	0	0	0	0	0	3
20	16	453	2	0	3	0	0	0	0	0	5
21	31	302	0	0	3	0	2	0	0	0	5
22	31	303	0	0	3	0	1	0	0	0	2
23	31	310	1	0	3	0	1	0	0	0	5
24	31	311	0	0	4	0	0	0	0	0	5
25	31	593	0	0	2	0	0	0	0	0	5
26	31	610	2	0	0	0	0	0	0	0	2
27	31	611	0	0	1	0	1	0	0	1	2
28	31	613	0	2	5	0	2	0	0	1	5
29	31	617	0	1	4	0	2	0	2	0	5
30	31	618	0	1	3	0	4	0	0	1	5
31	31	619	0	0	0	0	0	0	0	0	1
32	31	620	1	0	0	0	3	0	0	0	2
33	31	626	0	0	0	0	0	0	0	0	0
34	31	627	0	0	0	0	0	0	0	0	1
35	31	628	0	0	0	0	1	0	1	1	2
36	31	629	0	0	5	0	1	0	0	0	5
37	31	630	0	1	5	0	1	0	0	0	5
38	31	631	1	0	0	0	0	0	0	0	1
39	31	632	0	0	0	0	0	0	0	1	0
40	31	633	0	0	0	0	2	0	0	0	2
41	31	634	0	0	0	0	2	0	0	0	1
42	31	635	0	0	0	0	0	0	1	0	2
43	31	636	0	0	2	0	1	0	0	0	1
44	31	637	1	0	0	0	0	0	0	0	2
45	31	638	2	0	1	0	1	0	0	0	4
46	32	288	1	0	1	0	0	0	0	0	5
47	32	289	0	0	0	0	0	0	0	0	1
48	32	290	3	0	1	0	0	0	0	0	4
49	32	291	0	0	2	0	0	0	0	0	4

OBS	COMPT	TSPNO	SAP201	SAP203	SAP215	SAP216	SAP219	SAP222	SAP224	SAP226	SAP228
50	32	299	2	0	1	0	1	0	0	0	4
51	32	300	1	0	3	0	0	0	0	0	5
52	32	301	0	0	1	0	0	0	0	0	2
53	32	304	0	0	0	0	0	0	0	0	2
54	32	305	1	0	0	0	0	0	0	0	4
55	32	306	3	0	2	0	1	0	0	0	5
56	32	308	1	0	2	0	0	0	0	0	6
57	32	309	1	0	0	0	0	0	0	0	5
58	32	312	0	0	0	0	0	0	0	0	5
59	32	614	0	0	3	0	0	0	0	0	5
60	32	615	0	0	0	0	0	0	0	0	5
61	32	616	0	0	0	0	0	0	0	0	5
62	35	248	2	0	1	0	0	0	1	0	3
63	35	259	3	0	1	0	0	0	0	0	5
64	35	260	1	0	2	0	0	0	0	0	3
65	35	266	2	0	1	0	0	0	0	0	4
66	35	267	2	0	2	0	0	0	0	0	2
67	35	276	5	0	1	0	0	0	0	0	4
68	35	277	1	0	0	0	0	0	0	0	3
69	35	278	0	0	1	0	0	0	0	0	4
70	35	279	0	0	1	0	0	0	0	0	2
71	35	281	0	0	1	0	0	0	0	0	3
72	35	282	0	0	2	0	0	0	0	0	5
73	35	283	1	0	2	0	0	0	1	0	3
74	35	292	2	0	1	0	1	0	0	0	4
75	35	293	1	0	2	0	0	0	0	0	3
76	35	294	1	0	2	0	0	0	0	0	4
77	35	295	2	0	0	0	1	0	0	0	5
78	35	296	0	0	1	0	0	0	0	0	4
79	35	297	1	0	0	0	2	0	0	0	2
80	35	298	0	0	0	0	0	0	0	0	1
81	35	307	1	0	0	0	0	0	0	0	3
82	36	190	0	0	0	0	0	0	0	0	0
83	36	214	1	0	1	0	0	0	0	0	1
84	36	215	2	0	3	0	0	0	0	0	2
85	36	216	2	0	0	0	0	0	0	0	1
86	36	225	3	0	0	0	0	0	0	0	1
87	36	226	0	0	0	0	0	0	0	0	0
88	36	229	0	0	2	0	0	0	0	0	1
89	36	230	1	0	0	0	0	0	0	0	1
90	36	231	1	0	2	0	0	0	0	0	1
91	36	232	1	0	2	0	0	0	0	0	2
92	36	233	2	0	3	0	0	0	0	0	3
93	36	242	3	0	0	0	0	0	0	0	1
94	36	243	1	0	1	0	0	0	0	0	2
95	36	244	2	0	2	1	1	1	0	1	0
96	36	245	0	0	4	0	0	0	1	0	2
97	36	246	1	0	0	2	2	2	0	2	1
98	36	247	1	0	2	0	0	0	2	0	1

OBS	COMPT	TSPNO	SAP201	SAP203	SAP215	SAP216	SAP219	SAP222	SAP224	SAP226	SAP228
99	36	262	0	0	0	0	0	0	0	0	5
100	36	263	0	0	1	0	0	0	0	0	2
101	36	264	2	0	1	0	0	0	0	0	1
102	36	265	2	0	3	0	0	0	0	0	0
103	36	280	3	0	1	0	0	0	0	0	2
104	38	111	0	0	3	0	0	0	0	0	0
105	38	112	1	0	1	3	0	0	0	0	0
106	38	141	0	0	4	1	0	0	0	0	4
107	38	142	1	0	0	2	0	0	0	0	0
108	38	143	1	0	0	2	0	0	0	0	2
109	38	144	0	0	2	3	0	0	0	0	0
110	38	145	1	0	3	3	0	0	0	0	0
111	38	149	4	0	4	0	0	0	0	0	2
112	38	150	1	0	3	0	0	0	0	0	0
113	38	151	4	0	1	0	0	0	0	0	3
114	38	152	0	0	1	1	0	0	0	0	0
115	38	153	2	0	2	4	0	0	0	0	2
116	38	181	4	0	2	0	0	0	0	0	4
117	38	182	2	0	1	0	0	0	0	0	1
118	38	183	0	0	0	0	0	0	0	0	0
119	38	188	2	0	1	0	0	0	0	0	5
120	38	189	4	0	2	0	0	0	0	0	4
121	38	190	0	0	0	0	0	0	0	0	0
122	38	202	1	0	0	0	0	0	0	0	1
123	38	203	0	0	1	0	0	0	0	0	0
124	38	848	0	0	5	0	0	0	0	0	2
125	41	70	1	0	3	4	0	0	0	0	2
126	41	71	1	0	1	4	0	0	0	0	0
127	41	72	0	0	2	3	0	0	0	0	0
128	41	73	0	0	0	0	0	0	0	0	0
129	41	74	0	0	3	1	0	0	0	0	0
130	41	98	0	0	2	2	0	0	0	0	0
131	41	99	0	0	1	5	0	0	0	0	1
132	41	100	0	0	1	4	0	0	0	0	0
133	41	101	1	0	1	1	0	0	0	0	1
134	41	113	0	0	0	2	0	0	0	0	1
135	41	114	0	0	0	3	0	0	0	0	0
136	41	115	1	1	4	3	0	0	0	0	3
137	41	116	0	0	0	1	0	0	0	0	1
138	41	117	2	0	1	4	0	0	0	0	1
139	41	137	2	0	0	0	0	0	0	0	3
140	41	138	0	0	0	0	0	0	0	0	0
141	41	139	0	0	0	3	0	0	0	0	0
142	41	140	0	0	0	3	0	0	0	0	0
143	41	156	0	0	1	1	0	0	0	0	0

Notes: Sap201 = Saplings of Amur; Sap201 = Saplings of Amur;Sap203 = Saplings of Baen; Sap215 = Saplings of Gewa; Sap216 = Saplings of Goran; Sap219 = Saplings of Kankra; Sap222 = Saplings of Khalisha; Sap224 = Saplings of Passur; Sap226 = Saplings of Shingra; Sap228 = Saplings of Sundri.

Appendix Analysis of variance of the data on no. of saplings in the TSPs of compartment nos. 16, 31, 32, 35, 36, 38 and 41 in the Sundarbans as recorded during FRMP Forest Inventory in 1996-97.

General Linear Models Procedure

Class Level Information

Class	Levels	Values
COMPT	7	16 31 32 35 36 38 41

Number of observations in data set = 143

1) Dependent Variable: SAP201 (i.e. Saplings of species 201 i.e. Amur in seven compartments)

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	22.37040823	3.72840137	2.99	0.0090
Error	136	169.83938198	1.24881899		
Corrected Total	142	192.20979021			

R-Square	C.V.	Root MSE	SAP201 Mean
0.116385	125.8294	1.11750570	0.88811189

Source	DF	Type I SS	Mean Square	F Value	Pr > F
COMPT	6	22.37040823	3.72840137	2.99	0.0090

Source	DF	Type III SS	Mean Square	F Value	Pr > F
COMPT	6	22.37040823	3.72840137	2.99	0.0090

Parameter		Estimate	T for H0: Parameter=0	Pr > |T|	Std Error of Estimate
INTERCEPT		0.4210526316 B	1.64	0.1028	0.25637339
COMPT	16	0.4289473684 B	1.20	0.2329	0.35800596
	31	-.1010526316 B	-0.30	0.7668	0.34011774
	32	0.3914473684 B	1.03	0.3037	0.37918136
	35	0.8289473684 B	2.32	0.0221	0.35800596
	36	0.8516746411 B	2.43	0.0163	0.34998831
	38	0.9122807018 B	2.58	0.0110	0.35382889
	41	0.0000000000 B	.	.	.

NOTE: The X'X matrix has been found to be singular and a generalized inverse was used to solve the normal equations. Estimates followed by the letter 'B' are biased, and are not unique estimators of the parameters.

2) Dependent Variable: SAP203 (i.e. Saplings of species 203 i.e. Baen in seven compartments)

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	0.80088333	0.13348055	2.61	0.0198
Error	136	6.94736842	0.05108359		
Corrected Total	142	7.74825175			

R-Square	C.V.	Root MSE	SAP203 Mean
0.103363	538.6734	0.22601679	0.04195804

Source	DF	Type I SS	Mean Square	F Value	Pr > F
COMPT	6	0.80088333	0.13348055	2.61	0.0198

Source	DF	Type III SS	Mean Square	F Value	Pr > F
COMPT	6	0.80088333	0.13348055	2.61	0.0198

Parameter		Estimate	T for H0: Parameter=0	Pr > |T|	Std Error of Estimate
INTERCEPT		0.0526315789 B	1.02	0.3119	0.05185181
COMPT	16	-.0526315789 B	-0.73	0.4685	0.07240711
	31	0.1473684211 B	2.14	0.0339	0.06878920
	32	-.0526315789 B	-0.69	0.4937	0.07668986
	35	-.0526315789 B	-0.73	0.4685	0.07240711
	36	-.0526315789 B	-0.74	0.4584	0.07078553
	38	-.0526315789 B	-0.74	0.4633	0.07156229
	41	0.0000000000 B	.	.	.

NOTE: The X'X matrix has been found to be singular and a generalized inverse was used to solve the normal equations. Estimates followed by the letter 'B' are biased, and are not unique estimators of the parameters.

3) Dependent Variable: SAP215 (i.e. Saplings of species 215 i.e. Gewa in seven compartments)

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	25.29992429	4.21665405	2.03	0.0653
Error	136	282.05671907	2.07394646		
Corrected Total	142	307.35664336			

R-Square	C.V.	Root MSE	SAP215 Mean
0.082315	99.48657	1.44012029	1.44755245

Source	DF	Type I SS	Mean Square	F Value	Pr > F
COMPT	6	25.29992429	4.21665405	2.03	0.0653

Source	DF	Type III SS	Mean Square	F Value	Pr > F

COMPT	6	25.29992429	4.21665405	2.03	0.0653

Parameter		Estimate	T for H0: Parameter=0	Pr > |T|	Std Error of Estimate
INTERCEPT		1.052631579 B	3.19	0.0018	0.33038625
COMPT	16	1.197368421 B	2.60	0.0105	0.46135930
	31	0.587368421 B	1.34	0.1825	0.43830690
	32	-0.052631579 B	-0.11	0.9144	0.48864786
	35	-0.002631579 B	-0.01	0.9955	0.46135930
	36	0.220095694 B	0.49	0.6263	0.45102702
	38	0.661654135 B	1.45	0.1491	0.45597635
	41	0.000000000 B	.	.	.

NOTE: The X'X matrix has been found to be singular and a generalized inverse was used to solve the normal equations. Estimates followed by the letter 'B' are biased, and are not unique estimators of the parameters.

4) Dependent Variable: SAP216 (i.e. Saplings of species 216 i.e. Goran in seven compartments)

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	92.83521303	15.47253551	16.41	0.0001
Error	136	128.25569606	0.94305659		
Corrected Total	142	221.09090909			

R-Square	C.V.	Root MSE	SAP216 Mean
0.419896	152.6032	0.97111101	0.63636364

Source	DF	Type I SS	Mean Square	F Value	Pr > F
COMPT	6	92.83521303	15.47253551	16.41	0.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
COMPT	6	92.83521303	15.47253551	16.41	0.0001

Parameter		Estimate	T for H0: Parameter=0	Pr > |T|	Std Error of Estimate
INTERCEPT		2.315789474 B	10.39	0.0001	0.22278814
COMPT	16	-1.065789474 B	-3.43	0.0008	0.31110671
	31	-2.315789474 B	-7.84	0.0001	0.29556187
	32	-2.315789474 B	-7.03	0.0001	0.32950811
	35	-2.315789474 B	-7.44	0.0001	0.31110671
	36	-2.179425837 B	-7.17	0.0001	0.30413939
	38	-1.411027569 B	-4.59	0.0001	0.30747685
	41	0.000000000 B	.	.	.

NOTE: The X'X matrix has been found to be singular and a generalized inverse was used to solve the normal equations. Estimates followed by the letter 'B' are biased, and are not unique estimators of the parameters.

5) Dependent Variable: SAP219 (i.e. Saplings of species 219 i.e. Kankra in seven compartments)

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	17.94265734	2.99044289	10.04	0.0001
Error	136	40.49090909	0.29772727		
Corrected Total	142	58.43356643			

R-Square	C.V.	Root MSE	SAP219 Mean
0.307061	222.9345	0.54564391	0.24475524

Source	DF	Type I SS	Mean Square	F Value	Pr > F
COMPT	6	17.94265734	2.99044289	10.04	0.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
COMPT	6	17.94265734	2.99044289	10.04	0.0001

Parameter		Estimate	T for H0: Parameter=0	Pr > |T|	Std Error of Estimate
INTERCEPT		-0.000000000 B	-0.00	1.0000	0.12517930
COMPT	16	0.050000000 B	0.29	0.7753	0.17480338
	31	1.000000000 B	6.02	0.0001	0.16606910
	32	0.125000000 B	0.68	0.5007	0.18514268
	35	0.200000000 B	1.14	0.2546	0.17480338
	36	0.136363636 B	0.80	0.4263	0.17088860
	38	0.000000000 B	0.00	1.0000	0.17276384
	41	0.000000000 B	.	.	.

NOTE: The X'X matrix has been found to be singular and a generalized inverse was used to solve the normal equations. Estimates followed by the letter 'B' are biased, and are not unique estimators of the parameters.

6) Dependent Variable: SAP222 (i.e. Saplings of species 222 i.e. Khlashi in seven compartments)

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	0.34615385	0.05769231	1.71	0.1234
Error	136	4.59090909	0.03375668		
Corrected Total	142	4.93706294			

R-Square	C.V.	Root MSE	SAP222 Mean
0.070113	875.7793	0.18372992	0.02097902

Source	DF	Type I SS	Mean Square	F Value	Pr > F
COMPT	6	0.34615385	0.05769231	1.71	0.1234

Source	DF	Type III SS	Mean Square	F Value	Pr > F

COMPT	6	0.34615385	0.05769231	1.71	0.1234

Parameter		Estimate	T for H0: Parameter=0	Pr > |T|	Std Error of Estimate
INTERCEPT		0.0000000000 B	0.00	1.0000	0.04215054
COMPT	16	-.0000000000 B	-0.00	1.0000	0.05886002
	31	-.0000000000 B	-0.00	1.0000	0.05591900
	32	-.0000000000 B	-0.00	1.0000	0.06234148
	35	-.0000000000 B	-0.00	1.0000	0.05886002
	36	0.1363636364 B	2.37	0.0192	0.05754183
	38	-.0000000000 B	-0.00	1.0000	0.05817327
	41	0.0000000000 B	.	.	.

NOTE: The X'X matrix has been found to be singular and a generalized inverse was used to solve the normal equations. Estimates followed by the letter 'B' are biased, and are not unique estimators of the parameters.

7) Dependent Variable: SAP224 (i.e. Saplings of species 224 i.e. Passur in seven compartments)

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	0.59979021	0.09996503	1.07	0.3834
Error	136	12.70090909	0.09338904		
Corrected Total	142	13.30069930			

R-Square	C.V.	Root MSE	SAP224 Mean
0.045095	437.0026	0.30559620	0.06993007

Source	DF	Type I SS	Mean Square	F Value	Pr > F
COMPT	6	0.59979021	0.09996503	1.07	0.3834

Source	DF	Type III SS	Mean Square	F Value	Pr > F
COMPT	6	0.59979021	0.09996503	1.07	0.3834

Parameter		Estimate	T for H0: Parameter=0	Pr > |T|	Std Error of Estimate
INTERCEPT		0.0000000000 B	0.00	1.0000	0.07010858
COMPT	16	0.0500000000 B	0.51	0.6104	0.09790130
	31	0.1600000000 B	1.72	0.0877	0.09300954
	32	-.0000000000 B	-0.00	1.0000	0.10369198
	35	0.1000000000 B	1.02	0.3089	0.09790130
	36	0.1363636364 B	1.42	0.1565	0.09570877
	38	-.0000000000 B	-0.00	1.0000	0.09675903
	41	0.0000000000 B	.	.	.

NOTE: The X'X matrix has been found to be singular and a generalized inverse was used to solve the normal equations. Estimates followed by the letter 'B' are biased, and are not unique estimators of the parameters.

8) Dependent Variable: SAP226 (i.e. Saplings of species 226 i.e. Singra in seven compartments)

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	0.90979021	0.15163170	1.98	0.0720
Error	136	10.39090909	0.07640374		
Corrected Total	142	11.30069930			

R-Square	C.V.	Root MSE	SAP226 Mean
0.080507	395.2635	0.27641227	0.06993007

Source	DF	Type I SS	Mean Square	F Value	Pr > F
COMPT	6	0.90979021	0.15163170	1.98	0.0720

Source	DF	Type III SS	Mean Square	F Value	Pr > F
COMPT	6	0.90979021	0.15163170	1.98	0.0720

Parameter		Estimate	T for H0: Parameter=0	Pr > |T|	Std Error of Estimate
INTERCEPT		0.0000000000 B	0.00	1.0000	0.06341332
COMPT	16	0.1000000000 B	1.13	0.2608	0.08855189
	31	0.2000000000 B	2.38	0.0188	0.08412728
	32	-.0000000000 B	-0.00	1.0000	0.09378957
	35	-.0000000000 B	-0.00	1.0000	0.08855189
	36	0.1363636364 B	1.58	0.1175	0.08656874
	38	-.0000000000 B	-0.00	1.0000	0.08751870
	41	0.0000000000 B	.	.	.

NOTE: The X'X matrix has been found to be singular and a generalized inverse was used to solve the normal equations. Estimates followed by the letter 'B' are biased, and are not unique estimators of the parameters.

9)Dependent Variable: SAP228 (i.e. Saplings of species 228 i.e. Sundri in seven compartments)

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	208.46193215	34.74365536	17.30	0.0001
Error	136	273.07652939	2.00791566		
Corrected Total	142	481.53846154			

R-Square	C.V.	Root MSE	SAP228 Mean
0.432908	57.56601	1.41700941	2.46153846

Source	DF	Type I SS	Mean Square	F Value	Pr > F
COMPT	6	208.46193215	34.74365536	17.30	0.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F

COMPT	6	208.46193215	34.74365536	17.30	0.0001

Parameter		Estimate	T for H0: Parameter=0	Pr > |T|	Std Error of Estimate
INTERCEPT		0.684210526 B	2.10	0.0372	0.32508425
COMPT	16	3.065789474 B	6.75	0.0001	0.45395545
	31	2.115789474 B	4.91	0.0001	0.43127300
	32	3.503289474 B	7.29	0.0001	0.48080609
	35	2.665789474 B	5.87	0.0001	0.45395545
	36	0.679425837 B	1.53	0.1281	0.44378899
	38	0.744360902 B	1.66	0.0994	0.44865889
	41	0.000000000 B	.	.	.

NOTE: The X'X matrix has been found to be singular and a generalized inverse was used to solve the normal equations. Estimates followed by the letter 'B' are biased, and are not unique estimators of the parameters.

Appendix 27 : Data generated on the occurrence of sap wood rot, heart wood rot and insect damage in 24 top dying affected sundri top logs collected from compartment nos. 11, 19, 20, 33 and 36 in January 2002 from the Sundarbans.

Compartment Number	Log number	Sub-Sample Number	Length (in cm) of heart wood	Width (in cm) of heart wood	Depth (in cm) of heart wood	Volume of heart wood (in cm ^{3})	Length (in cm) of affected heart wood	Width (in cm) of affected heart wood	Depth (in cm) of affected heart wood	Volume of affected heart wood (in cm ^{3})	Per cent of affected heartwood	Length (in cm) of sap wood	Width (in cm)of sap wood	Depth (in cm) of sap wood	Volume of sap wood (in cm ^{3})	Colour of affected sap wood	Occurrence of insect damage (i.e. tunnels)
11	22	1	52	2.7	2.5	351				0	0.00	52	2.5	1.2	156	W	√
11	22	2	84	5.3	2	890.4				0	0.00	62	3.5	1.1	238.7	W	√
11	22	3	88	2.5	1	220				0	0.00	72	2.5	1	180	W	√
11	22	4	93	2.5	2.5	581.25				0	0.00	73	2.5	2.5	456.25	W	√
11	22	5	103	2.5	2.5	643.75	81	2.2	1	178.2	27.68				0		√
11	22	6	87	2.5	1	217.5				0	0.00	63	2.5	1	157.5	W	√
11	22	7	60	4.5	2	540				0	0.00	52	2.7	1.2	168.48	W	√
11	22	8	92	4	1.5	552				0	0.00	72	4	1.5	432	W	√
11	22	9	53	3.2	1.5	254.4				0	0.00	20	2.8	1.3	72.8	W	√
11	22	10	50	3	2	300	11	2	1	22	7.33	25	2	1.5	75	W	√
11	22	11	60	3.5	2.5	525				0	0.00	60	3	2	360	W	√
11	23	1	100	2.5	2.5	625				0	0.00	100	2	1.2	240	W	√
11	23	2	105	2.5	2.5	656.25	23	1.5	1	34.5	5.26	40	2	1.6	128	W	√
11	23	3	105	3.5	1.5	551.25				0	0.00	50	2.5	1	125	W	√
11	23	4	95	2.5	2.5	593.75	35	2.5	1.2	105	17.68				0		√
11	23	5	78	2.5	1	195				0	0.00	78	2.5	1	195	W	√
11	23	6	105	2.7	2	567				0	0.00	80	2.5	1	200	W	√
11	23	7	110	2.5	2.5	687.5				0	0.00	42	2.5	1	105	W	√
11	23	8	112	2.5	2.5	700	33	2	1.3	85.8	12.26				0		√
11	23	9	110	2.5	2.5	687.5	20	2.5	1.6	80	11.64	80	2.5	1.2	240	W	√
11	24	1	70	2.5	1.5	262.5				0	0.00				0		
11	24	2	90	1.5	1	135				0	0.00				0		
11	24	3	96	2.5	2	480				0	0.00				0		
11	24	4	90	2.5	2	450				0	0.00				0		
11	24	5	94	2	1.5	282				0	0.00				0		
11	24	6	90	1.4	1	126				0	0.00				0		
11	24	7	100	2.5	2.5	625				0	0.00				0		
11	24	8	95	2.5	2	475				0	0.00				0		
11	24	9	92	2.8	2	515.2				0	0.00				0		
11	24	10	94	2.5	1	235				0	0.00				0		
11	24	11	96	2.5	2.5	600				0	0.00						

19	1	1	60	7	2	840	35	2	1	70	8.33	58	4	1.8	417.6	W	√
19	1	2	95	6	1.5	855				0	0.00	14	4.1	1.5	86.1	A	
19	1	3	102	6.5	2.1	1392.3				0	0.00				0		
19	1	4	147	2.4	2	705.6				0	0.00				0		√
19	1	5	162	9.1	1.2	1769.04				0	0.00				0		
19	1	6	98	9.5	1.4	1303.4	20	2.7	1.1	59.4	4.56	60	7.8	1.2	561.6	W	√
19	2	1	88	2.5	2.2	484				0	0.00				0		
19	2	2	96	2.5	2.5	600	52	2.1	1.5	163.8	27.30				0		√
19	2	3	100	2.5	2.5	625	10	2	1.4	28	4.48	45	0.2	0.1	0.9	W	
19	2	4	101	2.5	2.5	631.25	64	2.1	1.8	241.92	38.32				0		√
19	2	5	98	2.5	2.2	539	11	2.5	1.6	44	8.16	80	0.2	0.1	1.6	W	
19	2	6	97	2.5	2.5	606.25	37	2.5	1.7	157.25	25.94				0		
19	2	7	97	2.5	2.5	606.25				0	0.00				0		
19	2	8	90	2.5	2.5	562.5	31	2.5	1.5	116.25	20.67				0		√
19	3	1	175	2.5	2	875				0	0.00	8	2.5	1	20		√
19	3	2	175	2.5	2.5	1093.75				0	0.00				0		√
19	3	3	150	2.5	2.5	937.5	65	2.5	2	325	34.67				0		
19	3	4	175	2.5	2.5	1093.75				0	0.00				0		√
19	3	5	175	2.5	2.5	1093.75				0	0.00	12	1.2	0.8	11.52	R	
19	3	6	175	2.5	2.5	1093.75				0	0.00				0		√
19	4	1	78	2.5	2.5	487.5				0	0.00	58	2.5	1.9	275.5	W	√
19	4	2	82	2.5	2.5	512.5				0	0.00	44	2.5	2	220	W	√
19	4	3	76	2.5	2.5	475				0	0.00	53	2.5	2	265	W	√
19	4	4	85	2.5	2.5	531.25	52	2.5	2.5	325	61.18				0		√
19	4	5	62	2.5	1.8	279				0	0.00	25	2.5	1.5	93.75	W	√
19	5	1	158	2.5	2.5	987.5				0	0.00	52	2.5	1.2	156	W	√
19	5	2	160	2.5	2.5	1000	30	2.5	2	150	15.00	92	2.5	1.5	345	W	√
19	5	3	152	2.5	2.5	950	35	2.1	1.2	88.2	9.28	55	2.5	1.2	165	W	√
19	5	4	109	2.5	2.4	654				0	0.00	56	2.5	2.2	308	W	V
19	5	5	108	2.5	2.5	675				0	0.00	17	2.5	2.1	89.25	W	√
19	5	6	107	2.5	2.5	668.75				0	0.00	64	2.5	2.2	352	W	√
19	5	7	72	2.5	2.5	450				0	0.00	72	2.5	1.4	252	W	√
19	5	8	80	2.5	1.2	240				0	0.00	80	2.4	0.8	153.6	W	√
19	5	9	55	2.5	2.5	343.75				0	0.00	16	2.5	1.3	52	W	√
19	5	10	52	8	2	832				0	0.00	13	4	0.7	36.4	W	√
19	6	1	101	4.1	1.2	496.92				0	0.00				0		
19	6	2	47	8	2	752				0	0.00	47	6.2	1.5	437.1	W	√
19	6	3	53	2.5	2.5	331.25				0	0.00	15	2.5	2.1	78.75	W	√
19	6	4	121	2.5	2.5	756.25				0	0.00	72	2.5	1.5	270	W	√
19	6	5	110	2.5	2.5	687.5				0	0.00	38	2.5	2	190	W	√
19	6	6	115	2.5	2.5	718.75				0	0.00	88	2.5	1.3	286	W	√
19	6	7	120	3.5	2.4	1008				0	0.00	120	0.2	0.1	2.4	W	
19	6	8	112	2.5	2.5	700	13	1.3	0.5	8.45	1.21	55	2.5	1.5	206.25	W	√
19	7	1	127	2.5	2.5	793.75	8	1.8	1.3	18.72	2.36				0		
19	7	2	127	2.5	2.5	793.75				0	0.00				0		√
19	7	3	125	2.5	2.5	781.25				0	0.00				0		
19	7	4	110	2.5	2.1	577.5				0	0.00	110	0.2	0.1	2.2		
19	7	5	127	2.5	2.5	793.75				0	0.00	12	2.5	1	30	B	
19	7	6	120	2.5	2.5	750				0	0.00				0		
19	7	7	160	6.2	1.6	1587.2				0	0.00				0		
19	7	8	110	2.5	2.5	687.5				0	0.00				0		
19	8	1	151	2.5	2.5	943.75				0	0.00				0		√

19	8	2	150	2.5	2.5	937.5				0	0.00				0		√
19	8	3	150	2.5	2.5	937.5	14	1	1	14	1.49				0		√
19	8	4	150	2.5	2.5	937.5				0	0.00				0		
19	8	5	150	6.1	1.5	1372.5				0	0.00				0		
19	8	6	150	2.5	2.5	937.5				0	0.00				0		
19	8	7	150	2.5	2	750				0	0.00				0		
19	8	8	150	2.5	2.5	937.5				0	0.00				0		
19	8	9	150	2.5	2.5	937.5	3	1.2	0.2	0.72	0.08				0		
19	8	10	150	2.5	2.5	937.5	20	2	1	40	4.27				0		√
19	9	1	62	6.2	1.8	691.92				0	0.00	20	0.1	0.1	0.2	W	√
19	9	2	67	3.1	2.1	436.17	18	2.5	1.1	49.5	11.35	67	0.1	0.1	0.67	W	√
19	9	3	60	2.5	2.5	375	24	2.5	1.3	78	20.80				0		√
19	9	4	49	2.5	2.1	257.25				0	0.00	10	2.5	1.3	32.5	W	√
19	9	5	49	2.5	2.5	306.25	31	2	1.5	93	30.37				0		
19	9	6	43	2.5	1	107.5				0	0.00	5	2.5	1	12.5	W	
19	9	7	56	3.6	1.7	342.72				0	0.00	22	2.5	1.1	60.5	W	
19	9	8	56	2.5	2.2	308	11	2.5	1	27.5	8.93	56	0.1	0.1	0.56	W	√
19	9	9	38	2.5	2.5	237.5	9	2.5	1.3	29.25	12.32				0		
19	9	10	58	2.5	2.5	362.5	26	2.5	1.5	97.5	26.90				0		√
19	10	1	58	2.5	2.5	362.5				0	0.00	33	2.5	2.4	198	W	√
19	10	2	41	2.5	1.1	112.75				0	0.00				0		
19	10	3	57	3.5	2.5	498.75				0	0.00	7	0.2	0.1	0.14		
19	10	4	64	2.1	1.3	174.72				0	0.00				0		√
19	10	5	56	2.5	2.5	350				0	0.00				0		√
19	10	6	62	2.5	2.5	387.5	15	1.2	1	18	4.65				0		√
19	10	7	56	2.5	1.5	210				0	0.00	35	2.5	1.5	131.25	W	
19	10	8	50	3.1	1.1	170.5				0	0.00				0		
19	11	1	75	7	2.1	1102.5				0	0.00	13	4.2	1	54.6	Br	
19	11	2	75	5	2	750	15	4	1	60	8.00				0		
19	11	3	87	2.5	2.5	543.75	55	2.5	2	275	50.57				0		√
19	11	4	69	2.5	2.5	431.25	8	2.5	2.5	50	11.59				0		√
19	11	5	72	2.5	2.5	450	30	2.5	2	150	33.33				0		√
19	11	6	72	2.5	2.5	450	22	2.5	1.8	99	22.00				0		√
19	11	7	76	2.5	2.5	475	20	2.5	1.8	90	18.95				0		√
19	11	8	76	2.5	2.5	475	43	2.5	1.5	161.25	33.95				0		√
19	12	1	78	4.5	2	702				0	0.00				0		
19	12	2	78	6.1	2.1	999.18				0	0.00				0		
19	12	3	80	2.5	2.5	500				0	0.00				0		
19	12	4	80	2.5	2.5	500	30	1	0.6	18	3.60				0		
19	12	5	80	2.5	2.5	500				0	0.00				0		
20	13	1	35	7	2.5	612.5	14	4	1	56	9.14				0		√
20	13	2	50	6	1.2	360				0	0.00				0		√
20	13	3	47	3	2.5	352.5				0	0.00	17	0.2	0.2	0.68	W	
20	13	4	45	2.5	2	225				0	0.00				0		
20	13	5	58	2.5	2.5	362.5	23	1.5	1	34.5	9.52				0		√
20	13	6	51	2.5	2.4	306	20	1.5	0.8	24	7.84				0		√
20	13	7	53	2.6	2.5	344.5	28	1.7	0.6	28.56	8.29				0		√
20	14	1	92	2.7	2.4	596.16	13	2.1	2	54.6	9.16	24	2.7	0.7	45.36	W	√
20	14	2	102	2.7	2.5	688.5	33	2	1.5	99	14.38	12	1.5	0.5	9	W	√
20	14	3	98	2.5	2.5	612.5				0	0.00	39	2.5	2	195	W	√
20	14	4	109	2.5	2.5	681.25	46	1	0.5	23	3.38	46	2.5	1.5	172.5	W	√
20	14	5	106	4.5	0.8	381.6				0	0.00	20	4.5	0.8	72	A	√

20	14	6	100	4.8	1	480				0	0.00	32	3	0.9	86.4	A/W	√
20	15	1	49	2.5	2.4	294				0	0.00	33	2.5	1.3	107.25	W	√
20	15	2	35	4.5	1.1	173.25				0	0.00	12	3	0.9	32.4	R/W	√
20	15	3	108	2.5	2.5	675	32	2.5	2.5	200	29.63				0		√
20	15	4	108	25	2.5	6750	32	2.5	2.5	200	2.96				0		√
20	15	5	103	2.5	2.2	566.5	36	2.5	2	180	31.77				0		√
20	15	6	112	2.5	2.3	644	45	2.5	2.3	258.75	40.18				0		√
20	15	7	102	6.5	0.8	530.4				0	0.00	38	3.5	0.7	93.1	W	√
20	16	1	56	2.7	2.5	378				0	0.00	35	2.6	2.1	191.1	W/R	√
20	16	2	76	4.1	1.3	405.08	17	3.5	1	59.5	14.69				0		√
20	16	3	31	5	1.2	186				0	0.00	4	4	1.1	17.6	R	√
20	16	4	22	2.5	2.5	137.5				0	0.00	10	2.5	1.5	37.5	W/A	√
20	16	5	84	2.5	2.5	525	36	2	1.2	86.4	16.46				0		√
20	16	6	95	2.5	2	475				0	0.00	19	2.5	2.2	104.5	W/B	√
20	16	7	56	2.5	2.3	322	37	2.5	2.3	212.75	66.07	12	2.5	0.8	24	W	√
33	17	1	22	6.2	2	272.8				0	0.00	8	1	1	8	W	
33	17	2	34	2.5	1	85				0	0.00	10	1	1	10	W	
33	17	3	58	2.5	2.5	362.5	4	1	1.1	4.4	1.21				0		√
33	17	4	60	2.5	2	300				0	0.00	12	0.5	0.6	3.6		
33	17	5	60	2.5	2.5	375	10	1.2	1	12	3.20				0		√
33	17	6	60	2.5	2.5	375				0	0.00				0		
33	17	7	60	2.5	2.5	375	4	1	0.8	3.2	0.85				0		
33	17	8	58	2.5	2.5	362.5				0	0.00	12	0.8	0.5	4.8		√
33	18	1	150	2.5	2.5	937.5	16	2.5	2	80	8.53				0		√
33	18	2	150	2.5	2.5	937.5	10	2.5	2.5	62.5	6.67				0		√
33	18	3	145	2.5	2.5	906.25				0	0.00	52	0.1	0.1	0.52		
33	18	4	160	2.5	2.5	1000	12	2.5	2.5	75	7.50	30	1	0.5	15	A	
33	18	5	52	3.5	2.2	400.4	6	1	0.5	3	0.75	52	0.1	0.1	0.52	W	√
33	19	1	45	2.5	2.5	281.25	45	2.5	2.5	281.25	100.00				0		
33	19	2	79	2.5	2.5	493.75	23	2.5	1.2	69	13.97				0		
33	19	3	103	2.5	2.5	643.75	30	2.5	1	75	11.65	30	2.5	1.5	112.5	W	√
33	19	4	80	2.5	2.5	500	27	2.5	1.3	87.75	17.55				0		√
33	19	5	103	2.5	2.5	643.75	55	2.5	1.3	178.75	27.77				0		√
33	19	6	90	4.5	1.5	607.5				0	0.00	22	3.5	1.2	92.4	W	√
36	20	1	27	2.5	2.5	168.75				0	0.00	3	2.5	1.3	9.75	W/A	
36	20	2	61	2.5	2.5	381.25	8	2.5	1.3	26	6.82				0		√
36	20	3	50	2.5	25	3125				0	0.00	18	2.5	1.5	67.5		
36	20	4	85	2.5	2.5	531.25	23	2.5	2	115	21.65				0		
36	20	5	85	2.5	2.5	531.25				0	0.00	38	2.5	2	190	A	√
36	20	6	52	11.5	2	1196				0	0.00	13	8	10	1040	W	
36	20	7	39	2.5	1	97.5				0	0.00				0		
36	20	8	46	2.5	2.5	287.5	9	2.5	2.5	56.25	19.57				0		
36	20	9	40	2.5	2.5	250				0	0.00	25	2.5	1.2	75	B	
36	20	10	86	2.5	2.5	537.5	28	2.5	1.5	105	19.53				0		√
36	20	11	54	2.5	2	270				0	0.00	18	2.5	1.2	54	W	
36	20	12	44	2.5	2.5	275	5	2.5	2.5	31.25	11.36				0		
36	20	13	52	3.5	2.5	455	8	3	2.1	50.4	11.08	11	3.5	1	38.5	W	√
36	20	14	75	3.5	2.5	656.25	32	2.5	2.2	176	26.82	32	3.5	1	112	W	√
36	20	15	77	3.5	1.8	485.1	6	2.5	1.2	18	3.71	10	2.5	1	25	W	√
36	20	16	52	2.5	2.5	325	20	2	1.5	60	18.46				0		
36	20	17	93	2.5	2.5	581.25	43	2	1.5	129	22.19				0		
36	20	18	68	2.5	2.5	425	27	2.5	1.2	81	19.06				0		√

36	20	19	60	2.5	2.5	375	17	2.5	1.5	63.75	17.00				0		√
36	20	20	102	2.5	2.5	637.5	44	2.5	1.8	198	31.06				0		√
36	21	1	38	9	2.1	718.2				0	0.00	38	3.5	1.5	199.5	W	√
36	21	2	88	6	2.2	1161.6				0	0.00	62	4.1	1.6	406.72	W	√
36	21	3	40	5	2.7	540				0	0.00	40	2.5	2.7	270	W	√
36	21	4	88	2.5	2.5	550				0	0.00	58	2.5	2.1	304.5	W	√
36	21	5	43	2.5	2.5	268.75				0	0.00	43	2.5	2.5	268.75	W	√
36	21	6	45	2.5	1	112.5				0	0.00	45	1	1	45	W	√
36	21	7	72	2.5	2.5	450				0	0.00	48	2.5	2	240	W	√
36	21	8	80	2.5	2.5	500				0	0.00	23	2.5	1.5	86.25	W	V
36	21	9	80	2.5	2.5	500	9	2.5	1.5	33.75	6.75				0		
36	21	10	60	5.2	2	624				0	0.00	60	3.5	1.2	252	W	√

Notes: B= Black, Br = Brick, *BBL* = Brick with *b*lack line, *A* = Ash, W = White, BS =Black spot, *R* = Reddish, D = Dead, √ = insect tunnel present.

Appendix 28 : Per cent isolation of fungi on 2% malt extract agar medium from sapwood of 12 stem of top dying affected sundri collected in January 2002 from different compartments in the Sundarbans.

Top dying sundri log no	Selected sub-sample no.	Colour of the sub-sample	Total no. of inocula plated	No. of inocula yielding fungi	Per cent yield of fungal isolates	Per cent isolation of fungal isolates					
						F1	F2	F3	F5	F6	Others
1	7	Ash	5	5	100	0	0	20	80	0	0
1	7	Ash	5	5	100	0	0	0	100	0	0
1	2	Brick	5	5	100	0	0	100	0	0	0
1	2	Brick	5	5	100	0	0	80	0	0	0
1	4	Rosy Buff	5	5	100	0	0	0	0	0	0
1	4	Rosy Buff	5	5	0	0	0	0	0	0	0
1	8	Rosy Buff	5	5	60	0	100	0	0	0	0
1	8	Rosy Buff	5	5	100	0	80	0	0	0	0
1	1	Whitish	5	5	100	0	0	100	0	0	0
1	1	Whitish	5	4	100	0	50	40	0	0	0
1	7	Whitish	5	5	80	0	0	20	0	0	0
1	7	Whitish	5	5	20	0	0	0	0	0	0
2	2	Ash	5	3	100	0	0	0	80	0	0
2	2	Ash	5	4	80	0	0	0	40	0	0
2	2	Brick	5	2	80	0	0	0	0	0	0
2	2	Brick	5	2	0	0	0	0	0	0	0
2	4	Brick	5	5	0	0	0	0	0	0	0
2	4	Brick	5	4	0	0	0	0	0	0	0
2	4	Brick	5	0	0	0	0	40	0	0	0
2	4	Brick	5	0	40	0	0	20	0	0	0
2	5	Brick	5	5	20	0	0	80	0	0	0
2	5	Brick	5	4	80	0	0	80	0	0	0
2	1	Whitish	5	0	0	0	100	0	0	0	0
2	1	Whitish	5	1	100	0	100	0	0	0	0
2	3	Whitish	5	5	80	100	0	0	0	0	0
2	3	Whitish	5	5	100	100	0	0	0	0	0
2	3	Whitish	5	0	100	100	0	0	0	0	0
2	3	Whitish	5	0	100	100	0	0	0	0	0
2	5	Whitish	5	5	100	100	0	0	0	0	0
2	5	Whitish	5	4	100	100	0	0	0	0	0
3	2	Brick	5	0	80	0	0	40	0	0	0
3	2	Brick	5	0	40	0	0	40	0	0	0
3	5	Brick	5	0	40	0	100	0	0	0	0
3	5	Brick	5	0	100	0	100	0	0	0	0
3	5	Brick	5	5	80	0	50	40	0	0	0
3	5	Brick	5	5	80	0	100	0	0	0	0
3	3	Rosy Buff	5	0	100	0	100	0	0	0	0
3	3	Rosy Buff	5	3	80	0	0	20	0	0	0
3	4	Rosy Buff	5	5	20	0	0	0	60	0	0
3	4	Rosy Buff	5	5	60	0	0	0	40	0	0
3	1	Whitish	5	5	100	100	0	0	0	0	0
3	1	Whitish	5	4	100	100	0	0	0	0	0
3	3	Whitish	5	2	100	0	67	20	0	0	0
3	3	Whitish	5	4	60	0	50	40	0	0	0
3	6	Whitish	5	1	80	100	0	0	0	0	0
3	6	Whitish	5	0	100	100	0	0	0	0	0
3	6	Whitish	5	4	100	100	0	0	0	0	0
3	6	Whitish	5	5	100	100	0	0	0	0	0
4	4	Brick	5	4	100	0	0	60	0	0	0
4	4	Brick	5	5	60	0	100	0	0	0	0

4	1	Brick	5	4	40	0	0	0	0	0	0
4	1	Brick	5	3	0	0	0	0	0	0	0
4	7	Brick	5	0	0	0	0	40	0	0	0
4	7	Brick	5	0	40	0	67	20	0	0	0
4	7	Brick	5	1	60	0	0	0	0	0	0
4	7	Brick	5	2	0	0	0	0	0	0	0
4	1	Rosy Buff	5	5	40	100	0	0	0	0	0
4	1	Rosy Buff	5	5	100	100	0	0	0	0	0
4	2	Rosy Buff	5	5	100	100	0	0	0	0	0
4	2	Rosy Buff	5	4	100	100	0	0	0	0	0
4	2	Rosy Buff	5	5	100	0	0	0	0	0	0
4	2	Rosy Buff	5	5	0	0	0	0	0	0	0
4	4	Whitish	5	5	80	0	100	0	0	0	0
4	4	Whitish	5	5	40	0	0	0	0	0	80
4	6	Whitish	5	3	80	0	75	20	0	0	0
4	6	Whitish	5	0	80	0	60	40	0	0	0
5	5	Ash	5	5	40	100	0	0	0	0	0
5	5	Ash	5	5	100	100	0	0	0	0	0
5	4	Brick	5	2	0	0	0	0	0	100	0
5	4	Brick	5	1	100	0	0	0	0	100	0
5	9	Brick	5	4	100	0	0	0	0	80	0
5	9	Brick	5	5	80	0	0	0	0	100	0
5	3	Rosy Buff	5	4	0	100	0	0	0	0	0
5	3	Rosy Buff	5	1	100	100	0	0	0	0	0
5	7	Rosy Buff	5	3	100	100	0	0	0	0	0
5	7	Rosy Buff	5	2	100	100	0	0	0	0	0
5	4	Whitish	5	5	100	0	0	0	0	80	0
5	4	Whitish	5	0	80	0	0	0	0	40	0
6	8	Ash	5	4	100	0	0	0	100	0	0
6	8	Ash	5	2	100	0	0	0	100	0	0
6	3	Brick	5	0	100	25	0	60	0	0	0
6	3	Brick	5	0	80	0	0	60	0	0	0
6	4	Brick	5	4	60	0	0	0	0	0	0
6	4	Brick	5	4	0	0	0	0	0	0	0
6	8	Brick	5	2	0	0	0	0	0	0	20
6	8	Brick	5	3	20	0	0	40	0	0	0
6	11	Rosy Buff	5	2	100	100	0	0	0	0	0
6	11	Rosy Buff	5	2	40	100	0	0	0	0	0
6	7	Whitish	5	5	40	0	0	40	0	0	40
6	7	Whitish	5	5	80	0	0	0	0	0	60
7	1	Rosy Buff	5	5	20	100	0	0	0	0	0
7	1	Rosy Buff	5	5	100	100	0	0	0	0	0
7	2	Rosy Buff	5	0	100	100	0	0	0	0	0
7	2	Rosy Buff	5	0	100	100	0	0	0	0	0
7	8	Rosy Buff	5	0	80	0	0	40	0	0	0
7	8	Rosy Buff	5	2	40	0	50	20	0	0	0
7	1	Whitish	5	4	60	0	0	0	0	0	0
7	1	Whitish	5	3	0	0	0	20	0	0	0
7	7	Whitish	5	5	20	0	0	0	0	0	0
7	7	Whitish	5	5	0	0	0	0	0	0	0
7	7	Whitish	5	4	0	0	0	0	0	100	0
7	7	Whitish	5	2	100	0	0	0	0	0	0
8	4	Brick	5	3	40	100	0	0	0	0	0
8	4	Brick	5	2	100	100	0	0	0	0	0
8	4	Rosy Buff	5	5	40	0	0	0	0	0	0
8	4	Rosy Buff	5	5	0	0	0	40	0	0	0
8	7	Rosy Buff	5	2	40	0	0	40	0	0	0
8	7	Rosy Buff	5	1	40	0	0	20	0	0	0

8	9	Rosy Buff	5	5	20	0	100	0	0	0	0
8	9	Rosy Buff	5	5	20	0	100	0	0	0	0
8	11	Rosy Buff	5	1	20	0	0	0	0	0	0
8	11	Rosy Buff	5	1	0	0	0	0	0	0	0
8	3	Whitish	5	5	0	0	100	0	0	0	0
8	3	Whitish	5	5	100	0	100	0	0	0	0
9	2	Ash	5	5	100	0	0	60	0	0	0
9	2	Ash	5	5	60	0	0	80	0	0	0
9	9	Rosy Buff	5	0	0	0	0	0	0	0	0
9	9	Rosy Buff	5	0	0	0	0	0	0	0	0
9	4	Whitish	5	5	100	0	0	60	0	0	0
9	4	Whitish	5	5	60	0	0	0	0	0	0
10	1	Ash	5	4	80	0	50	20	0	0	0
10	1	Ash	5	5	40	0	0	20	0	0	0
10	3	Rosy Buff	5	5	0	100	0	0	0	0	0
10	3	Rosy Buff	5	5	100	100	0	0	0	0	0
10	7	Whitish	5	3	0	100	0	0	0	0	0
10	7	Whitish	5	4	100	100	0	0	0	0	0
11	3	Ash	5	2	20	0	0	20	0	0	0
11	3	Ash	5	1	20	0	0	20	0	0	0
11	5	Ash	5	1	20	0	0	0	80	0	0
11	5	Ash	5	1	80	0	0	0	100	0	0
11	1	Rosy Buff	5	5	100	0	100	0	0	0	0
11	1	Rosy Buff	5	5	100	0	100	0	0	0	0
12	1	Rosy Buff	5	5	100	100	0	0	0	0	0
12	1	Rosy Buff	5	5	100	100	0	0	0	0	0
12	4	Rosy Buff	5	0	100	0	100	0	0	0	0
12	4	Rosy Buff	5	0	100	0	100	0	0	0	0
12	5	Rosy Buff	5	2	100	100	0	0	0	0	0
12	5	Rosy Buff	5	1	100	100	0	0	0	0	0

Summary of variance analysis of per cent isolation data six types of fungi from sapwood of 12 sundri dying stem affected by top dying and collected in January 2001.

SUMMARY						
Groups	Count	Sum	Average	Variance		
Fungus F1	138	3825	27.72	2004.42		
Fungus F2	138	2299	16.66	1232.14		
Fungus F3	138	1620	11.74	518.12		
Fungus F5	138	780	5.65	449.57		
Fungus F6	138	600	4.35	378.04		
Fungus F Others	138	200	1.45	85.46		
ANOVA						
e of Variation	SS	df	MS	F	P-value	F crit
Between Groups	65647.32	5	13129.46	16.88	6.68E-16	2.22
Within Groups	639484.3	822	777.96			
Total	705131.7	827				

Summary of isolate wise data of per cent isolation of six types of fungi (Isolate Nos. T60, T61, T62, T66, T50 and others) from healthy shoot and top dying affected shoot type D1, D2 and D3 of sundri collected from compartment nos. 32, 36, 37, 20 and 19 from the Sundarbans.

Shootype	Compt	IsoT60	Iso61	Iso62	Iso66	Iso50	Isothers
Shoot Healthy	32	0	0	12.5	0.83	0.67	2.78
Shoot D1	32	0	0	36.67	8.33	0	28.33
Shoot D2	32	0	0	10	46.67	0	6.67
Shoot D3	32	0	0	0	23.33	0	33.33
Shoot Healthy	36	1.62	0.67	5.56	0.67	0	3.14
Shoot D1	36	46.89	0	0	2.23	0	0
Shoot D2	36	46.22	2.67	0	0	0	26.67
Shoot D3	36	71.67	18.33	0	0	0	0
Shoot Healthy	37	6.06	2.93	1.11	1.11	0	1.72
Shoot D1	37	11.33	4	0	1.33	0	1.33
Shoot D2	37	31.11	7.78	0	1.67	0	20
Shoot D3	37	18.67	13.78	4.44	0	0	35.56
Shoot Healthy	20	0	0	0	0	0	0.67
Shoot D1	20	0	0	16.67	0	45	11.67
Shoot D2	20	30	0	0	1.67	0	33.33
Shoot D3	20	80	0	0	0	0	0
Shoot Healthy	19	5.56	0	9.44	11.89	0	0.56
Shoot D1	19	0	0	6.67	0	11.67	15
Shoot D2	19	0	2.22	0	0	0	4.44
Shoot D3	19	21.11	2.22	0	2.22	0	11.11

Table : Summary of analysis of variance to compare relative isolation per cent of the data of isolation of six types of fungi (Isolate Nos. T60, T61, T62, T66, T50 and others) from healthy shoot and top dying affected shoot type D1, D2 and D3 of sundri collected from compartment nos. 32, 36, 37, 20 and 19 from the Sundarbans.

SUMMARY						
Groups	Count	Sum	Average	Variance		
Isolate No. T60	20	370.24	18.512	625.1753		
Isolate No. T61	20	54.6	2.73	25.22985		
Isolate No. T62	20	103.06	5.153	80.69586		
Isolate No. T66	20	101.95	5.0975	128.0561		
Isolate No. T50	20	57.34	2.867	105.1181		
Other isolates	20	236.31	11.8155	167.3658		
ANOVA						
Source of Variation	SS	df	MS	F	P-value	F crit
Between Groups	3903.112	5	780.6223	4.138887	0.001718	2.293909
Within Groups	21501.18	114	188.6068			
Total	25404.29	119				

Shoot type wise data of per cent isolation of six types of fungi (Isolate Nos. T60, T61, T62, T66, T50 and others) from healthy shoot and top dying affected shoot type D1, D2 and D3 of sundri collected from compartment nos. 32, 36, 37, 20 and 19 from the Sundarbans showing shoot type wise data..

Isolate No.	Compt	Healthy	D1	D2	D3
T60	32	0	0	0	0
T61	32	0	0	0	0
T62	32	12.50	36.67	10.00	0
T66	32	0.83	8.33	46.67	23.33
T50	32	0.67	0	0	0
T others	32	2.78	28.33	6.67	33.33
T60	36	1.62	46.89	46.22	71.67
T61	36	0.67	0	2.67	18.33
T62	36	5.56	0	0	0
T66	36	0.67	2.23	0	0
T50	36	0	0	0	0
T others	36	3.14	0	26.67	0
T60	37	6.06	11.33	31.11	18.67
T61	37	2.93	4.00	7.78	13.78
T62	37	1.11	0	0	4.44
T66	37	1.11	1.33	1.67	0
T50	37	0	0	0	0
T others	37	1.72	1.33	20.00	35.56
T60	20	0	0	30.00	80.00
T61	20	0	0	0	0
T62	20	0	16.67	0	0
T66	20	0	0	1.67	0
T50	20	0	45.00	0	0
T others	20	0.67	11.67	33.33	0
T60	19	5.56	0	0	21.11
T61	19	0	0	2.22	2.22
T62	19	9.44	6.67	0	0
T66	19	11.89	0	0	2.22
T50	19	0	11.67	0	0
T others	19	0.56	15.00	4.44	11.11

Summary of analysis of variance to compare total isolation per cent data of six types of fungi (Isolate Nos. T60, T61, T62, T66, T50 and others) from healthy shoot and top dying affected shoot type D1, D2 and D3 of sundri collected from compartment nos. 32, 36, 37, 20 and 19 from the Sundarbans.

SUMMARY						
Groups	Count	Sum	Average	Variance		
Shoot Healthy	30	69.49	2.316333	12.46009		
Shoot Type D1	30	247.12	8.237333	185.4264		
Shoot Type D2	30	271.12	9.037333	213.6742		
Shoot Type D3	30	335.77	11.19233	419.7004		
ANOVA						
Source of Variation	SS	df	MS	F	P-value	F crit
Between Groups	1297.721	3	432.5738	2.08153	0.106458	2.68281
Within Groups	24106.57	116	207.8153			
Total	25404.29	119				

Appendix 29: Isolation fungi/bacteria from bark and wood of dying twig/branches of sundri collected from top dying trees in the Sundarbans in June 2002.

Twig/ branch sample	Source of inocula	No. of inocula plated	No. of inocula yielding	No. of inocula yielding	Per cent isolation of bacteria	Per cent isolation of fungus A	Per cent isolation of fungus B	Per cent isolation of fungus C	Per cent isolation of fungus D	Per cent isolation of other fungi
1	2	3	4	5	13.33	26.67	60.00	0.00	0.00	0.00
2	Bark	15	14	1	80.00	0.00	0.00	0.00	0.00	0.00
3	Bark	15	13	2	30.00	60.00	0.00	0.00	0.00	0.00
3	Bark	5	1	4	6.67	0.00	0.00	0.00	93.33	0.00
4	Bark	10	7	3	66.67	0.00	0.00	0.00	33.33	0.00
5	Bark	15	14	1	80.00	0.00	0.00	0.00	20.00	0.00
6	Bark	15	5	10	80.00	0.00	0.00	0.00	20.00	0.00
7	Bark	5	1	4	10.00	80.00	0.00	10.00	0.00	0.00
8	Bark	5	1	4	20.00	80.00	0.00	20.00	0.00	0.00
9	Bark	10	9	1	0.00	0.00	0.00	0.00	86.67	13.33
10	Bark	10	10	2	13.33	0.00	0.00	0.00	80.00	6.67
12	Bark	15	15	0	20.00	0.00	0.00	0.00	80.00	0.00
13	Bark	15	13	2	0.00	100.00	0.00	0.00	0.00	0.00
14	Bark	15	12	3	0.00	100.00	0.00	0.00	0.00	0.00
15	Bark	5	5	0	20.00	60.00	0.00	0.00	20.00	0.00
16	Bark	5	5	0	70.00	20.00	0.00	0.00	10.00	0.00
17	Bark	5	4	1	0.00	100.00	0.00	0.00	0.00	0.00
18	Bark	10	3	7	0.00	80.00	0.00	0.00	20.00	0.00
19	Bark	5	5	0	20.00	80.00	0.00	0.00	0.00	0.00
20	Bark	5	5	0	0.00	100.00	0.00	0.00	0.00	0.00
21	Bark	5	4	1	0.00	100.00	0.00	0.00	0.00	0.00
22	Bark	5	5	0	0.00	70.00	0.00	0.00	0.00	0.00
23	Bark	10	10	0	30.00	70.00	0.00	0.00	0.00	0.00
24	Bark	10	7	0	20.00	80.00	0.00	0.00	0.00	0.00
25	Bark	10	7	3	0.00	0.00	0.00	0.00	100.00	0.00
26	Bark	10	8	2	20.00	70.00	10.00	0.00	0.00	0.00
2	Wood	15	15	0	80.00	0.00	0.00	0.00	20.00	0.00
3	Wood	10	8	2	60	40.00	0.00	0.00	0.00	0.00
3	Wood	5	1	4	13.33	0.00	0.00	0.00	86.67	0.00
4	Wood	5	2	3	26.67	0.00	0.00	6.67	46.67	0.00
5	Wood	15	13	2	100.00	0.00	0.00	0.00	0.00	0.00
6	Wood	15	11	4	80.00	0.00	0.00	0.00	0.00	20.00
7	Wood	5	1	5	30.00	50.00	0.00	0.00	10.00	10.00
8	Wood	5	1	4	20.00	80.00	0.00	0.00	0.00	0.00
9	Wood	10	7	23	0.00	13.33	0.00	0.00	80.00	6.67
10	Wood	5	4	1	6.67	0.00	0.00	0.00	26.67	66.67
12	Wood	15	15	0	0.00	0.00	0.00	6.67	60.00	33.33
13	Wood	15	14	1	0.00	100.00	0.00	0.00	0.00	0.00
14	Wood	15	15	0	0.00	40.00	0.00	0.00	60.00	0.00
15	Wood	5	5	0	0.00	0.00	0.00	0.00	60.00	40.00
16	Wood	5	5	0	0.00	90.00	0.00	0.00	0.00	0.00
17	Wood	5	5	0	0.00	100.00	0.00	0.00	0.00	0.00
18	Wood	10	9	0	0.00	80.00	0.00	0.00	0.00	20.00
19	Wood	5	5	0	0.00	100.00	0.00	0.00	0.00	0.00
20	Wood	5	5	0	0.00	100.00	0.00	0.00	0.00	0.00
21	Wood	5	5	0	0.00	100.00	0.00	0.00	0.00	0.00
22	Wood	5	5	0	0.00	100.00	0.00	0.00	0.00	0.00
23	Wood	10	10	0	10.00	90.00	0.00	0.00	0.00	0.00

24	Wood	10	10		0.00	100.00	0.00	0.00	0.00	0.00
25	Wood	10	9	1	10.00	20.00	70.00	0	0	0
26	Wood	10	10	0	0	0	0	0	0	0

Table: Summary of variance analysis of the data of isolation of five types of fungi from bark and wood of dying twigs of sundri collected in June 2002 from Sundarbans.

SUMMARY						
Groups	Count	Sum	Average	Variance		
Fungus A	50	2460	49.2	1813.406		
Fungus B	50	70	1.4	73.5102		
Fungus C	50	43.33333	0.866667	11.2517		
Fungus D	50	1106.667	22.13333	1105.107		
Other fungi (others)	50	216.6667	4.333333	150.6803		
VA						
Source of Variation	SS	df	MS	F	P-value	F crit
Between Groups	85864.62	4	21466.16	34.03054	1.39E-22	2.408491
Within Groups	154543.8	245	630.7909			
Total	240408.4	249				

Table: Summary of variance analysis of the data of isolation of fungus (all) and bacteria (all) from dying twigs of sundri collected in June 2002 from Sundarbans.

SUMMARY						
Groups	Count	Sum	Average	Variance		
Fungus	50	3966.667	79.33333	768.7075		
Bacteria	50	1033.333	20.66667	829.932		
ANOVA						
Source of Variation	SS	df	MS	F	P-value	F crit
Between Groups	86044.44	1	86044.44	107.6471	1.86E-17	3.938112
Within Groups	78333.33	98	799.3197			
Total	164377.8	99				

Table: Summary of variance analysis of the data of isolation of bacteria and five types of fungi from bark and wood of dying twigs of sundri collected in June 2002 from Sundarbans.

MARY						
Groups	Count	Sum	Average	Variance		
Bacteria from bark	24	580	24.16667	818.599		
Fungus A from bark	24	1206.667	50.27778	1714.895		
Fungus B from bark	24	60	2.5	150		
Fungus C from bark	24	30	1.25	20.1087		
Fungus D from bark	24	463.3333	19.30556	995.149		
Other fungi from bark	24	20	0.833333	8.937198		
Bacteria from wood	25	446.6667	17.86667	881.3704		
Fungus A from wood	25	1253.333	50.13333	1956		
Fungus B from wood	25	10	0.4	4		
Fungus C from wood	25	13.33333	0.533333	3.407407		
Fungus D from wood	25	550	22	1083.333		
Other fungi from wood	25	196.6667	7.866667	273.037		

ANOVA						
Source of Variation	SS	df	MS	F	P-value	F crit
Between Groups	88956.7	11	8086.973	12 25402	7.76E-19	1.822698
Within Groups	186104.4	282	659.9447			
Total	275061.1	293				

Table: Comparison of the mean per cent isolation of five types of fungi and bacteria from the00 bark and wood of dying twigs/branch of sundri collected in June 2002.

Fungus C	Fungus B	Other fungi	Fungus D	Fungus A
0.87	1.40	4.33	22.13	49.20

Notes: Mean underscored by the same dotted line are not significantly different.				

Table: Comparison of the mean per cent isolation of fungus (all) and bacteria (all) from dying twigs/branch of sundri collected in June 2002.

Fungus (all)	Bacteria (all)
79.33	20.67
Note: The means are highly significantly (P =0.001) different.	

Appendix 30: Diameter at breast height (DBH), number of main branches affected and their corresponding value in respect of Per cent of crown affected, number of main branches affected and per cent of main stem affected by top dying as number of main branches as found during the first trip in October 2001 and second trip in January 2002.

Sclass	Compt	Plot	Sundri Tree Number	DBH of sundri trees	Per cent of crown affected as found during the first trip in October 2001	No. of main branches affected as found during the first trip in October 2001	Percent of main stem affected by top dying as observed during the first trip in October 2001	Per cent of crown affected as found during the second trip in January 2002	No. of main branches affected as found during the second trip in January 2002	Percent of main stem affected by top dying as observed during the second trip in January 2002
Severe	22	1	1	29	40	0	40	20	1	10
Severe	22	1	2	16.5	45	0	45	25	1	15
Severe	22	1	3	28.2	65	0	65	60	1	55
Severe	22	1	4	35.3	60	0	60	65	1	60
Severe	22	1	5	30.2	80	0	80	65	1	60
Severe	22	1	6	29.5	0	0	0	5	0	0
Severe	22	1	7	22.3	50	0	50	70	1	65
Severe	22	1	8	18.3	40	0	40	20	1	10
Severe	22	1	9	19.7	50	0	50	60	2	50
Severe	22	1	10	26.6	35	0	35	25	1	10
Severe	22	1	11	22	40	0	45	25	1	15
Severe	22	1	12	13	0	0	0	20	1	10
Severe	22	1	13	27	50	0	50	75	1	70
Severe	22	1	14	24	55	0	55	65	1	50
Severe	22	1	15	34.6	60	0	60	60	1	40
Severe	22	1	16	29.2	30	0	30	20	1	10
Severe	22	1	17	32.6	70	0	70	65	1	80
Severe	22	1	18	18	0	0	0	0	0	0
Severe	22	1	19	27	50	0	50	70	1	75
Severe	22	1	20	14	0	0	0	5	0	0
Severe	22	1	21	36.2	35	0	35	80	1	80
Severe	22	2	1	31	50	0	50	70	1	60
Severe	22	2	2	29.8	20	0	20	25	1	65
Severe	22	2	3	23	60	0	60	55	1	10
Severe	22	2	4	29	70	0	70	55	1	50
Severe	22	2	5	21.2	65	0	65	60	0	50
Severe	22	2	6	32	20	0	20	30	1	15
Severe	22	2	7	24.5	0	0	0	10	0	0
Severe	22	2	8	20.8	0	0	0	0	0	0
Severe	22	2	9	28.2	65	0	65	75	1	70
Severe	22	2	10	22.6	0	0	0	5	0	0
Severe	22	2	11	26.5	50	0	50	60	0	50
Severe	22	2	12	37	40	0	40	35	1	10
Severe	22	2	13	17.5	0	0	0	5	0	0
Moderate	22	3	1	18.5	0	0	0	0	0	0
Moderate	22	3	2	33	50	0	50	60	1	55

Moderate	22	3	3	9.5	0	0	0	0	0	0
Moderate	22	3	4	15	0	0	0	5	0	0
Moderate	22	3	5	28	10	0	10	45	1	15
Moderate	22	3	6	30	30	0	30	35	1	10
Moderate	22	3	7	23.8	20	0	10	30	1	10
Moderate	22	3	8	24.5	25	0	25	5	0	0
Moderate	22	3	9	31.3	0	0	0	0	0	0
Moderate	22	3	10	16	20	0	20	25	1	10
Moderate	22	3	11	12.2	0	0	0	0	0	0
Moderate	22	3	12	14.6	0	0	0	0	0	0
Moderate	22	3	13	18.1	0	0	0	0	0	0
Moderate	22	3	14	30	0	0	0	5	0	0
Moderate	22	3	15	17.5	0	0	0	5	0	0
Moderate	22	3	16	22.5	60	0	60	70	1	65
Moderate	22	3	17	17.2	0	0	0	5	0	0
Moderate	22	3	18	16.3	0	0	0	5	0	0
Moderate	22	3	19	23.2	0	0	0	0	0	0
Moderate	26	1	1	13.9	40	0	20	30	1	15
Moderate	26	1	2	18	0	0	0	10	0	0
Moderate	26	1	3	24.8	0	0	0	0	0	0
Moderate	26	1	4	16.2	0	0	0	5	0	0
Moderate	26	1	5	18.2	0	0	0	5	0	0
Moderate	26	1	6	14.6	0	0	0	5	0	0
Moderate	26	1	7	14.3	0	0	0	5	0	0
Moderate	26	1	8	18.9	65	0	40	55	0	0
Moderate	26	1	9	19.8	0	0	0	5	0	0
Moderate	26	1	10	9.3	0	0	0	0	0	0
Moderate	26	1	11	25.4	0	0	0	0	0	0
Moderate	26	1	12	18.5	0	0	0	0	0	0
Moderate	26	1	13	17.1	0	0	0	5	0	0
Moderate	26	1	14	15.2	25	0	15	35	1	20
Moderate	26	1	15	22.8	0	0	0	0	0	0
Moderate	26	1	16	18.5	0	0	0	0	0	0
Moderate	26	1	17	19.2	0	0	0	5	0	0
Slight	26	2	1	18.6	0	0	0	5	0	0
Slight	26	2	2	9.5	0	0	0	0	0	0
Slight	26	2	3	18.4	0	0	0	0	0	0
Slight	26	2	4	20.5	0	0	0	0	0	0
Slight	26	2	5	14.2	0	0	0	0	0	0
Slight	26	2	6	22.5	0	0	0	0	0	0
Slight	26	2	7	23.4	0	0	0	5	0	0
Slight	26	2	8	17.5	0	0	0	5	0	0
Slight	26	2	9	28	0	0	0	0	0	0
Slight	26	2	10	17.3	0	0	0	5	0	0
Slight	26	2	11	17.6	0	0	0	0	0	0
Slight	26	2	12	18.5	15	0	0	25	2	10
Slight	26	2	13	17	0	0	0	5	0	0
Slight	26	2	14	21.6	0	0	0	5	0	0
Slight	26	2	15	14.5	0	0	0	0	0	0
Slight	26	2	16	22.3	0	0	0	10	0	0
Slight	26	2	17	19	0	0	0	0	0	0
Slight	26	2	18	16.9	0	0	0	10	0	0
Slight	26	2	19	22.6	0	0	0	0	0	0
Slight	26	2	20	25.3	0	0	0	0	0	0
Slight	26	2	21	29	0	0	0	0	0	0
Slight	26	2	22	17.8	0	0	0	0	0	0
Slight	26	2	23	19.2	0	0	0	0	0	0
Slight	26	2	24	12.4	0	0	0	0	0	0

Slight	26	2	25	16.3	0	0	0	0	0	0
Moderate	26	3	1	9.8	75	0	40	75	1	10
Moderate	26	3	2	6.3	10	0	0	20	1	5
Moderate	26	3	3	10	15	0	0	30	1	10
Moderate	26	3	4	13.2	10	0	0	5	0	0
Moderate	26	3	5	12.6	20	0	0	15	0	0
Moderate	26	3	6	12.1	0	0	0	0	0	0
Moderate	26	3	7	15.1	5	0	0	65	0	20
Moderate	26	3	8	12.3	3.5	0	15	5	0	0
Moderate	26	3	9	8.2	0	0	0	0	0	0
Moderate	26	3	10	10.5	60	0	30	60	0	0
Moderate	26	3	11	8	75	0	45	0	0	0
Moderate	26	3	12	6.7	20	0	10	20	1	5
Moderate	26	3	13	10.5	15	0	0	35	1	10
Moderate	26	3	14	11.7	45	0	25	30	1	10
Moderate	26	3	15	10.2	65	0	60	50	0	0
Moderate	26	3	16	8.2	30	0	0	25	0	0
Moderate	26	3	17	9.6	0	0	0	5	0	0
Moderate	26	3	18	13.9	40	0	20	35	0	0
Moderate	26	3	19	12.2	25	0	0	35	2	10
Moderate	26	3	20	7.3	15	0	0	10	0	0
Moderate	26	3	21	14.7	20	0	10	20	0	0
Moderate	26	3	22	8.9	45	0	20	40	0	0
Moderate	26	3	23	12.2	45	0	10	40	0	0
Moderate	26	3	24	10	5	0	0	0	0	0
Moderate	40	1	1	15.3	35	2	50	35	1	0
Moderate	40	1	2	12.1	80	3	60	55	1	50
Moderate	40	1	3	19.5	90	3	90	65	1	70
Moderate	40	1	4	12.2	60	2	70	55	1	40
Moderate	40	1	5	21	75	2	65	70	1	60
Moderate	40	1	6	6	10	2	0	5	0	0
Moderate	40	1	7	11.9	10	2	0	10	2	0
Moderate	40	1	8	12.4	30	1	10	20	1	10
Moderate	40	1	9	6.9	25	1	5	35	1	20
Moderate	40	1	10	9.8	0	0	0	0	0	0
Moderate	40	1	11	10.7	40	1	30	30	1	35
Moderate	40	1	12	9.6	0	0	0	0	0	0
Moderate	40	1	13	12.3	0	1	0	10	1	0
Moderate	40	1	14	9.4	5	1	0	0	0	0
Moderate	40	1	15	9.6	5	0	0	0	0	0
Moderate	40	1	16	11.4	70	3	80	65	1	60
Slight	40	2	1	17.4	10	2	0	5	1	0
Slight	40	2	2	14.2	0	0	0	0	0	0
Slight	40	2	3	24.9	0	0	0	0	0	0
Slight	40	2	4	19	0	0	0	0	0	0
Slight	40	2	5	15.8	15	2	5	10	1	0
Slight	40	2	6	12.4	0	0	0	0	0	0
Slight	40	2	7	15.7	0	0	0	0	0	0
Slight	40	2	8	14.8	10	2	10	5	1	0
Slight	40	2	9	10.4	0	0	0	0	0	0
Slight	40	2	10	18.2	0	0	0	0	0	0
Slight	40	2	11	15.7	0	0	0	0	0	0
Slight	40	2	12	18.6	0	0	0	0	0	0
Slight	40	2	13	13.2	0	0	0	0	0	0
Slight	40	2	14	18.9	0	0	0	0	0	0
Slight	40	2	15	27	0	0	0	0	0	0
Slight	40	2	16	20	0	0	0	0	0	0
Slight	40	2	17	24	10	2	0	5	0	0

Slight	40	2	18	14.6	5	0	0	10	0	0
Slight	40	2	19	19.6	0	1	0	0	0	0
Slight	40	2	20	18.7	45	2	35	50	1	15
Slight	40	2	21	12.2	35	3	25	40	1	10
Slight	40	2	22	19.2	10	0	0	20	1	15
Slight	40	2	23	14.3	10	2	0	5	1	0
Slight	40	2	24	17.3	0	0	0	0	0	0
None	40	3	1	19.9	0	0	0	0	0	0
None	40	3	2	12.6	0	0	0	0	0	0
None	40	3	3	28.1	0	0	0	0	0	0
None	40	3	4	8	0	0	0	0	0	0
None	40	3	5	21.3	0	0	0	0	0	0
None	40	3	6	12	0	1	0	5	0	0
None	40	3	7	9.2	0	0	0	0	0	0
None	40	3	8	16.1	0	0	0	0	0	0
None	40	3	9	13	0	0	0	0	0	0
None	40	3	10	15.5	0	0	0	0	0	0
None	40	3	11	17.4	0	0	0	0	0	0
None	40	3	12	12.1	0	0	0	0	0	0
None	40	3	13	16.2	0	0	0	15	0	0
None	40	3	14	14	0	0	0	0	0	0
None	40	3	15	20.7	0	0	0	0	0	0
None	40	3	16	16.5	0	0	0	0	0	0
None	40	3	17	12.6	0	0	0	0	0	0
None	40	3	18	13.4	0	0	0	0	0	0
None	40	3	19	14.3	0	0	0	0	0	0
None	40	3	20	14.5	0	0	0	0	0	0
None	40	3	21	16.4	0	0	0	0	0	0
None	40	3	22	15.1	0	0	0	5	0	0
Moderate	33	1	1	23	30	3	30	30	2	10
Moderate	33	1	2	23	35	4	10	40	3	10
Moderate	33	1	3	22	10	1	0	5	2	0
Moderate	33	1	4	19	10	0	0	5	1	0
Moderate	33	1	5	25	35	4	25	30	3	15
Moderate	33	1	6	38	55	3	20	45	2	30
Moderate	33	1	7	22.7	35	3	15	25	1	10
Moderate	33	1	8	24.1	15	0	0	5	1	0
Moderate	33	1	9	9.9	0	0	0	0	0	0
Moderate	33	1	10	8.1	0	0	0	0	0	0
Moderate	33	1	11	6	0	0	0	0	0	0
Moderate	33	1	12	11.6	0	0	0	0	0	0
Moderate	33	1	13	9	20	0	15	15	0	0
Moderate	33	1	14	8.5	0	0	0	0	0	0
Moderate	33	1	15	9.1	0	0	0	0	0	0
Moderate	33	1	16	8.9	0	0	0	0	0	0
Moderate	33	1	17	23.2	50	2	15	40	0	10
Moderate	33	1	18	17	10	0	5	5	1	0
Moderate	33	2	1	18.6	0	0	0	0	0	0
Moderate	33	2	2	14	0	0	0	0	0	0
Moderate	33	2	3	27.6	30	2	20	25	3	10
Moderate	33	2	4	23.9	40	2	15	30	2	5
Moderate	33	2	5	24	20	5	5	5	0	0
Moderate	33	2	6	29.5	35	3	25	25	1	10
Moderate	33	2	7	36.8	35	2	5	20	0	0
Moderate	33	2	8	14.7	25	3	15	25	1	0
Moderate	33	2	9	25	65	3	30	0	0	0
Moderate	33	2	10	23.7	50	0	20	60	1	40
Moderate	33	2	11	16.5	0	3	0	0	0	0

Moderate	33	2	12	12.2	10	2	5	0	0	0
Moderate	33	2	13	23.6	0	0	0	0	0	0
Moderate	33	2	14	28	25	3	10	15	2	10
Moderate	33	2	15	8.5	0	0	0	0	0	0
Moderate	33	2	16	8	0	0	0	0	0	0
Moderate	33	2	17	44	5	0	0	5	0	0
Moderate	33	2	18	23	20	4	15	20	1	20
Moderate	33	2	19	29	5	2	5	5	1	0
Moderate	33	2	20	22	85	3	70	75	1	50
Moderate	33	2	21	12	0	0	0	0	0	0
Moderate	33	2	22	12.5	40	1	15	30	1	70
Moderate	33	2	23	24.5	90	1	70	85	1	80
Moderate	33	2	24	20.5	75	2	40	60	1	25
Severe	33	3	1	27	55	2	30	0	0	0
Severe	33	3	2	29	50	2	50	40	0	0
Severe	33	3	3	23	25	3	10	25	2	5
Severe	33	3	4	19.4	10	1	0	5	0	0
Severe	33	3	5	19.6	35	5	25	30	0	0
Severe	33	3	6	22.5	70	4	40	80	2	50
Severe	33	3	7	25.2	60	4	20	55	5	15
Severe	33	3	8	24	45	0	15	20	0	0
Severe	33	3	9	28.7	35	2	10	30	5	10
Severe	33	3	10	27.2	0	4	0	40	3	20
Severe	33	3	11	29	0	0	0	30	2	20
Severe	33	3	12	25.5	0	0	0	60	2	50
Severe	33	3	13	30.4	30	2	10	20	0	0
Severe	33	3	14	19.5	25	2	10	10	2	10
Severe	33	3	15	9	0	0	0	0	0	0
None	361	1	1	11.4	25	2	10	20	1	15
None	361	1	2	7.8	20	2	0	35	1	10
None	361	1	3	12	20	3	7	15	1	54
None	361	1	4	9.8	0	0	0	0	0	0
None	361	1	5	10	0	0	0	0	0	0
None	361	1	6	9.5	0	0	0	0	0	0
None	361	1	7	15.2	0	0	0	0	0	0
None	361	1	8	13.4	0	0	0	0	0	0
None	361	1	9	12.1	70	2	60	60	1	35
None	361	1	10	10	0	0	0	0	0	0
None	361	1	11	11	0	0	0	0	0	0
None	361	1	12	10.2	0	0	0	0	0	0
None	361	1	13	13.3	0	0	0	0	0	0
None	361	1	14	11.1	0	0	0	0	0	0
None	361	1	15	12.5	0	0	0	0	0	0
None	361	1	16	11.7	0	0	0	0	0	0
None	361	1	17	12	0	0	0	0	0	0
None	361	1	18	11.1	0	0	0	0	0	0
None	361	1	19	9.8	0	0	0	0	0	0
None	361	1	20	9.2	0	0	0	0	0	0
None	361	1	21	10	0	0	0	0	0	0
None	361	1	22	10.3	0	0	0	5	0	0
None	361	1	23	11.5	0	0	0	0	0	0
Moderate	361	2	1	24.2	20	2	0	15	1	0
Moderate	361	2	2	18.7	65	3	60	55	1	50
Moderate	361	2	3	17.5	0	2	0	0	0	0
Moderate	361	2	4	16	60	0	40	85	1	50
Moderate	361	2	5	20.6	25	1	0	25	0	0
Moderate	361	2	6	13.5	30	0	0	25	1	0
Moderate	361	2	7	14.5	20	1	0	10	0	0

Moderate	361	2	8	16.4	0	1	0	0	0	0
Moderate	361	2	9	21	5	2	0	10	0	0
Moderate	361	2	10	14.5	0	0	0	0	0	0
Moderate	361	2	11	19	0	0	0	25	1	10
Moderate	361	2	12	12.6	0	0	0	15	2	0
Moderate	361	2	13	16	0	0	0	0	0	0
Moderate	361	2	14	13.5	30	2	25	35	1	10
Moderate	361	2	15	12.7	20	2	20	25	0	0
Moderate	361	2	16	13.8	0	0	0	0	0	0
Moderate	361	2	17	15	0	0	0	5	1	0
Moderate	361	2	18	14.5	0	0	0	0	0	0
Moderate	361	2	19	12.2	0	0	0	0	0	0
Slight	361	3	1	21	10	2	0	5	0	0
Slight	361	3	2	15.6	0	0	0	0	0	0
Slight	361	3	3	14	0	0	0	0	0	0
Slight	361	3	4	14.7	45	2	20	40	0	0
Slight	361	3	5	16.3	70	3	80	60	0	0
Slight	361	3	6	14.4	30	2	10	20	1	10
Slight	361	3	7	9.7	10	1	0	0	0	0
Slight	361	3	8	18.3	0		0	0	0	0
Slight	361	3	9	12.2	25	2	10	20	0	0
Slight	361	3	10	10.5	35	1	10	10	0	0
Slight	361	3	11	21.1	5	1	0	10	0	0
Slight	361	3	12	12.1	15	1	10	10	0	0
Slight	361	3	13	9.9	5	1	0	5	0	0
Slight	361	3	14	9.6	10	0	0	5	1	0
Slight	361	3	15	9.6	0	1	0	0	0	0
Slight	361	3	16	15.6	3	0	0	5	0	0
Slight	361	3	17	12.8	0	0	0	0	0	0
Slight	361	3	18	10.8	0	0	0	0	0	0
Slight	361	3	19	12	0	0	0	0	0	0
Slight	361	3	20	14.7	0	0	0	5	0	0
Slight	361	3	21	13.5	0	0	0	21	0	0
Slight	361	3	22	15.4	0	0	0	0	0	0
Slight	361	3	23	18.2	0	0	0	0	0	0
Slight	361	3	24	10.3	20	2	60	5	0	0
Slight	361	3	25	16.2	15	1	20	0	2	0
Severe	362	1	1	21.1	70	3	50	60	0	70
Severe	362	1	2	17.5	15	2	5	30	1	5
Severe	362	1	3	18.5	80	2	60	80	2	60
Severe	362	1	4	23	15	3	0	10	0	0
Severe	362	1	5	14.7	10	1	0	20	0	0
Severe	362	1	6	11	55	1	80	60	1	55
Severe	362	1	7	13.6	10	2	5	0	1	5
Severe	362	1	8	24	5	2	0	10	0	0
Severe	362	1	9	17.8	45	3	30	20	3	30
Severe	362	1	10	18	75	0	40	70	2	60
Severe	362	1	11	21.7	45	3	35	25	1	20
Severe	362	1	12	16.5	48	2	30	35	1	10
Severe	362	1	13	10.2	5	2	0	5	0	0
Severe	362	2	1	15	10	2	0	5	2	0
Severe	362	2	2	18	25	2	10	15	3	0
Severe	362	2	3	16.5	30	0	10	20	2	10
Severe	362	2	4	14.4	5	2	0	5	0	10
Severe	362	2	5	17	45	1	30	35	2	20
Severe	362	2	6	16	40	2	15	25	1	15
Severe	362	2	7	19.2	65	0	45	80	1	70
Severe	362	2	8	19	5	0	0	15	3	0

Severe	362	2	9	21.8	5	0	0	5	3	0
Severe	362	2	10	13.8	30	2	10	25	10	20
Severe	362	2	11	21.2	0	2	20	30	1	40
Severe	362	2	12	21.2	0	2	20	5	1	5
Severe	362	2	13	17	0	2	15	10	4	10
Severe	362	2	14	22.5	40	1	70	45	2	80
Severe	362	2	15	21	0	3	10	15	3	0
Severe	362	2	16	18.4	0	1	35	5	2	0
Severe	362	3	1	16	60	2	25	40	1	30
Severe	362	3	2	23.4	75	5	35	55	2	25
Severe	362	3	3	13.8	70	2	30	55	2	60
Severe	362	3	4	21	10	2	5	10	2	0
Severe	362	3	5	13.4	0	2	10	10	2	20
Severe	362	3	6	18.2	75	2	45	60	1	50
Severe	362	3	7	18	70	1	40	50	3	50
Severe	362	3	8	13	20	2	15	25	1	40
Severe	362	3	9	36	35	2	20	30	2	30
Severe	362	3	10	12.2	20	1	10	20	2	25
Severe	362	3	11	24.5	80	1	55	65	1	40
Severe	362	3	12	11.8	85	3	60	55	2	40
Moderate	191	1	1	17.5	55	2	50	60	1	35
Moderate	191	1	2	8.5	5	1	0	5	0	0
Moderate	191	1	3	8.5	20	1	10	20	1	15
Moderate	191	1	4	10.5	10	1	0	5	0	0
Moderate	191	1	5	15.9	40	2	15	25	1	15
Moderate	191	1	6	16	80	2	70	75	1	70
Moderate	191	1	7	7.8	5	1	0	5	0	0
Moderate	191	1	8	10.7	0	0	0	10	0	0
Moderate	191	1	9	11.5	75	2	70	65	1	65
Moderate	191	1	10	18.6	90	1	80	75	1	70
Moderate	191	1	11	9.6	70	0	60	65	1	60
Moderate	191	1	12	9.2	0	2	0	0	0	0
Moderate	191	1	13	13.7	45	2	35	30	1	15
Moderate	191	1	14	12.5	45	3	30	30	1	10
Moderate	191	1	15	12.3	35	0	75	45	0	0
Moderate	191	1	16	12.5	40	0	20	25	1	10
Moderate	191	1	17	11	0	0	0	0	0	0
Moderate	191	1	18	14.5	40	2	35	5	0	0
Moderate	191	1	19	14.8	0	1	0	5	0	0
Moderate	191	1	20	13.7	0	0	0	0	0	0
Moderate	191	1	21	12.6	0	0	0	0	0	0
Moderate	191	1	22	14.7	0	0	0	0	0	0
Moderate	191	1	23	11.6	0	0	0	0	0	0
Moderate	191	1	24	11.5	65	0	70	65	1	60
Moderate	191	1	25	14.2	0	0	0	0	0	0
Moderate	191	2	1	15	0	0	0	0	0	0
Moderate	191	2	2	18.2	5	0	0	20	1	10
Moderate	191	2	3	19.3	35	2	30	25	1	15
Moderate	191	2	4	20.5	40	2	20	50	1	65
Moderate	191	2	5	17	0	0	0	5	0	0
Moderate	191	2	6	12.4	0	0	0	5	0	0
Moderate	191	2	7	11.5	0	0	0	0	0	0
Moderate	191	2	8	14.6	40	2	35	35	1	30
Moderate	191	2	9	14.8	0	0	0	0	0	0
Moderate	191	2	10	11.1	0	0	0	0	0	0
Moderate	191	2	11	19.5	5	0	0	5	0	0
Moderate	191	2	12	17	10	2	0	5	0	0
Moderate	191	2	13	17	15	1	0	30	0	25

Moderate	191	2	14	19.1	0	0	0	5	0	0
Moderate	191	2	15	18.2	0	0	0	0	0	0
Moderate	191	2	16	11.5	0	0	0	0	0	0
Moderate	191	2	17	13.5	0	0	0	0	0	0
Moderate	191	2	18	12.8	10	3	0	20	1	10
Moderate	191	2	19	13.7	0	0	0	5	0	0
Moderate	191	2	20	22.6	0	0	0	0	0	0
Moderate	191	2	21	13.2	5	1	0	5	0	0
Moderate	191	2	22	19.1	0	0	0	0	0	0
Moderate	191	2	23	14.3	30	2	15	30	1	20
Moderate	191	2	24	17.8	25	2	20	35	1	25
Slight	191	3	1	16	45	2	30	45	2	30
Slight	191	3	2	20.9	10	2	0	5	0	0
Slight	191	3	3	18.1	30	1	15	20	1	15
Slight	191	3	4	15.4	65	2	0	70	1	75
Slight	191	3	5	18.2	5	1	0	5	0	0
Slight	191	3	6	15.2	70	1	60	70	1	65
Slight	191	3	7	16	0	0	0	0	0	0
Slight	191	3	8	14.5	0	0	0	0	0	0
Slight	191	3	9	18	0	0	0	0	0	0
Slight	191	3	10	21.2	45	2	25	40	2	25
Slight	191	3	11	14.5	0	2	0	0	0	0
Slight	191	3	12	23.3	40	0	30	45	2	30
Slight	191	3	13	191	0	0	70	0	0	0
Slight	191	3	14	13.2	5	1	0	5	0	0
Slight	191	3	15	14.3	0	0	0	0	0	0
Slight	191	3	16	14	0	0	0	0	0	0
Slight	191	3	17	21.3	0	0	0	0	0	0
Slight	191	3	18	191	0	0	0	0	0	0
Slight	191	3	191	14.2	0	0	0	0	0	0
Slight	191	3	20	15	0	0	0	0	0	0
Slight	191	3	21	10.5	0	0	0	0	0	0
Slight	191	3	22	15.4	0	0	0	0	0	0
Severe	37	1	1	33	50	2	30	20	1	15
Severe	37	1	2	21	80	2	60	70	1	65
Severe	37	1	3	31	75	2	50	75	1	70
Severe	37	1	4	21	20	2	15	35	1	15
Severe	37	1	5	27.5	5	1	0	5	0	0
Severe	37	1	6	31	35	2	25	20	1	15
Severe	37	1	7	24	40	2	20	20	3	10
Severe	37	1	8	24	40	2	35	40	1	35
Severe	37	1	9	17.5	70	2	70	55	3	50
Severe	37	1	10	19.1	90	2	85	90	1	90
Severe	37	1	11	26.5	65	3	60	65	1	60
Severe	37	1	12	24.5	25	3	10	25	2	10
Severe	37	1	13	31	50	2	55	35	1	20
Severe	37	2	1	27.3	35	3	20	5	3	0
Severe	37	2	2	29	60	2	50	75	1	80
Severe	37	2	3	25	30	1	25	25	1	15
Severe	37	2	4	33.3	15	5	25	30	3	10
Severe	37	2	5	28	10	2	0	10	2	0
Severe	37	2	6	24	50	2	40	50	1	15
Severe	37	2	7	21	70	2	50	55	1	30
Severe	37	2	8	27.5	15	2	0	10	1	0
Severe	37	2	9	34	0	2	0	0	0	0
Severe	37	3	1	26.5	25	2	20	25	2	10
Severe	37	3	2	25	55	2	30	45	1	40
Severe	37	3	3	22.5	80	1	80	75	1	70

Severe	37	3	4	24.5	20	2	10	35	1	30
Severe	37	3	5	33	45	1	25	35	1	40
Severe	37	3	6	26	0	0	0	10	1	0
Severe	37	3	7	23	30	2	15	35	3	25
Severe	37	3	8	21	60	2	50	55	1	40
Severe	37	3	9	35	20	2	15	30	2	15
Severe	37	3	10	23	90	2	65	70	1	65
None	192	1	1	13.8	0	0	0	0	0	0
None	192	1	2	15	5	2	0	0	0	0
None	192	1	3	17.5	10	1	0	5	0	0
None	192	1	4	15.6	5	2	0	0	0	0
None	192	1	5	11.2	10	2	0	0	0	0
None	192	1	6	17.6	0	0	0	0	0	0
None	192	1	7	14.1	45	1	40	45	1	50
None	192	1	8	12.3	0	0	0	0	2	0
None	192	1	9	14.4	0	0	0	0	0	0
None	192	1	10	13.1	0	0	0	0	0	0
None	192	1	11	18.2	15	0	0	30	1	10
None	192	1	12	18	10	1	0	5	0	0
None	192	1	13	13.9	40	2	30	40	1	30
None	192	1	14	17.4	0	0	0	0	0	0
None	192	1	15	13.1	10	2	0	10	1	0
None	192	1	16	14.7	5	1	0	5	0	0
None	192	1	17	17.8	0	0	0	25	0	10
Slight	192	2	1	17.5	15	1	10	45	2	15
Slight	192	2	2	15.4	0	0	0	0	0	0
Slight	192	2	3	14.3	10	2	0	5	1	0
Slight	192	2	4	15	0	0	0	0	2	0
Slight	192	2	5	16.5	0	0	0	0	1	0
Slight	192	2	6	13.9	70	2	60	65	1	55
Slight	192	2	7	13.9	5	1	0	25	2	10
Slight	192	2	8	14.7	20	2	15	30	1	15
Slight	192	2	9	18.9	10	2	0	10	2	0
Slight	192	2	10	18.3	75	2	40	100	1	45
Slight	192	2	11	16.5	65	3	50	85	1	80
Slight	192	2	12	17.1	30	2	20	35	2	20
Slight	192	2	13	15.7	0	0	0	0	0	0
Slight	192	2	14	24.2	0	0	0	0	0	0
Slight	192	2	15	13.7	0	0	0	0	0	0
Slight	192	2	16	16.6	0	0	0	0	0	0
Slight	192	2	17	20.6	3	0	0	25	2	15
Slight	192	2	18	17.2	0	0	0	5	1	0
Slight	192	2	19	17.6	25	1	20	30	2	20
Slight	192	2	20	17.3	5	1	0	10	1	0
Slight	192	2	21	10.9	10	1	0	0	0	0
Slight	192	2	22	11.8	10	2	0	5	1	0
Slight	192	2	23	13.1	35	2	60	75	1	70
None	192	3	1	12.5	0	0	0	5	0	0
None	192	3	2	11	0	0	0	5	0	0
None	192	3	3	13.4	0	0	0	0	0	0
None	192	3	4	21.1	0	0	0	0	0	0
None	192	3	5	18.5	0	0	0	0	0	0
None	192	3	6	16.5	0	0	0	0	0	0
None	192	3	7	191	0	0	0	0	0	0
None	192	3	8	16.6	70	2	50	55	1	0
None	192	3	9	12.5	50	1	90	65	1	50
None	192	3	10	10.1	0	0	0	0	0	60
None	192	3	11	14.8	10	2	0	25	1	10

None	192	3	12	18	5	1	0	5	0	0
Slight	20	1	1	16.2	0	0	0	0	0	0
Slight	20	1	2	18.1	0	0	0	0	0	0
Slight	20	1	3	10.7	0	0	0	0	0	0
Slight	20	1	4	19.2	0	0	0	0	0	0
Slight	20	1	5	15.2	0	0	0	5	0	0
Slight	20	1	6	14.7	5	1	0	5	0	0
Slight	20	1	7	21.3	0	0	0		0	0
Slight	20	1	8	14.4	20	2	10	35	3	10
Slight	20	1	9	14.9	0	0	0	0	0	0
Slight	20	1	10	10.5	10	2	0	5	0	0
Slight	20	1	11	16.6	0	0	0		0	0
Slight	20	1	12	14.6	10	2	0	10	0	0
Slight	20	1	13	11.8	5	1	0	20	1	5
Slight	20	1	14	22.3	10	2	0	5	0	0
Slight	20	1	15	13.7	35	3	20	25	1	10
Slight	20	1	16	12.7	10	0	0	0	0	0
Slight	20	1	17	12.6	0	0	0	5	0	0
None	20	2	1	18.6	10	2	0	5	0	0
None	20	2	2	11.8	0	0	0	0	0	0
None	20	2	3	15.6	0	0	0	0	0	0
None	20	2	4	16.8	5	1	0	5	0	0
None	20	2	5	15.2	65	3	0	70	1	60
None	20	2	6	14.3	0	0	0	0	0	0
None	20	2	7	23.3	5	1	0	10	2	0
None	20	2	8	16.5	10	1	0	5	0	0
None	20	2	9	11.3	0	0	0	0	0	0
None	20	2	10	8.5	0	0	0	0	0	0
None	20	2	11	12.1	10	2	0	5	0	0
None	20	2	12	11.6	45	3	0	35	1	25
None	20	2	13	17.2	0	0	0	0	0	0
None	20	2	14	15.4	0	0	0	5	0	0
None	20	2	15	15.8	0	0	0	0	0	0
None	20	2	16	10.3	0	0	0	0	0	0
None	20	2	17	18.1	5	2	0	5	0	0
None	20	2	18	18.8	0	0	0	0	0	0
None	20	3	1	19.1	0	0	0	0	0	0
None	20	3	2	10.5	20	1	0	15	0	0
None	20	3	3	10.5	0	0	0	0	0	0
None	20	3	4	11.3	0	0	0	0	0	0
None	20	3	5	14.3	0	0	40	0	0	0
None	20	3	6	14.7	0	0	0	0	0	0
None	20	3	7	22.8	0	0	0	0	0	0
None	20	3	8	11.8	20	2	0	10	0	0
None	20	3	9	14	0	0	0	0	0	0
None	20	3	10	21.1	0	0	0	0	0	0
None	20	3	11	15	20	3	0	10	0	0
None	20	3	12	18.3	0	0	35	0	0	0
None	20	3	13	16.4	0	0	0	0	0	0
None	20	3	14	16.7	0	0	0	0	0	0
None	20	3	15	16.9	10	1	0	5	0	0
None	20	3	16	16.4	0	0	0	0	0	0
None	20	3	17	21.6	0	0	0	0	0	0
None	20	3	18	13.5	0	0	0	0	0	0
None	20	3	19	18	0	0	0	0	0	0
None	20	3	20	19.1	0	0	0	0	0	0
None	20	3	21	19.5	0	0	0	0	0	0
None	20	3	22	12.5	5	2	0	5	0	0

None	20	3	23	13.9	0	0	0	0	0	0
None	20	3	24	16.5	35	2	25	25	0	40
None	20	3	25	12.5	0	0	0	0	0	0
Slight	11	1	1	12.3	0	2	0	5	0	0
Slight	11	1	2	10	0	1	10	5	0	0
Slight	11	1	3	19.1	5	2	0	5	0	0
Slight	11	1	4	11	0	0	0	0	0	0
Slight	11	1	5	10.5	0	3	0	0	0	0
Slight	11	1	6	18	0	0	0	5	0	0
Slight	11	1	7	10.3	0	0	0	5	0	0
Slight	11	1	8	10	5	2	0	0	0	0
Slight	11	1	9	11.8	35	3	0	50	0	0
Slight	11	1	10	11.2	10	2	0	0	0	0
Slight	11	1	11	16	0	0	0	0	0	0
Slight	11	1	12	17.2	0	0	0	0	0	0
Slight	11	1	13	20.2	0	0	0	5	0	0
Slight	11	1	14	19.1	0	0	0	0	0	0
Slight	11	1	15	10.3	10	1	0	0	0	0
Slight	11	1	16	11	0	0	0	5	0	0
Slight	11	1	17	12.5	0	0	0	0	0	0
Slight	11	1	18	10.5	25	2	0	10	0	0
Slight	11	1	19	19.1	45	3	25	45	0	0
Slight	11	1	20	23	0	0	0	0	0	0
Slight	11	1	21	20	5	1	0	0	0	0
Slight	11	1	22	15.5	0	0	0	0	0	0
Slight	11	1	23	16.2	0	0	0	0	0	0
Slight	11	1	24	17.5	0	0	0	0	0	0
Slight	11	1	25	14.3	0	0	0	0	0	0
Slight	11	1	26	19.1	10	2	0	5	0	0
Slight	11	1	27	17	0	0	0	0	0	0
Slight	11	1	28	24.2	0	0	0	0	0	0
Slight	11	1	29	18.9	5	1	0	0	0	0
Slight	11	2	1	17	0	0	0	0	0	0
Slight	11	2	2	13.1	15	1	10	5	0	0
Slight	11	2	3	16.5	5	1	0	0	0	0
Slight	11	2	4	13	10	1	0	10	1	0
Slight	11	2	5	13.5	0	0	0	0	0	0
Slight	11	2	6	16.5	0	0	0	0	0	0
Slight	11	2	7	12.3	0	0	0	0	0	0
Slight	11	2	8	11.3	25	2	15	20	0	0
Slight	11	2	9	11	0	0	0	0	0	0
Slight	11	2	10	10.5	15	2	0	10	0	0
Slight	11	2	11	12.2	10	1	0	5	0	0
Slight	11	2	12	13.5	5	1	0	5	0	0
Slight	11	2	13	12	0	0	0	0	0	0
Slight	11	2	14	11.5	0	0	0	0	0	0
Slight	11	2	15	14	0	0	0	0	0	0
Slight	11	2	16	12.3	0	0	0	0	0	0
Slight	11	2	17	11.2	0	0	0	0	0	0
Slight	11	2	18	10.7	10	2	0	5	0	0
Slight	11	2	19	10.2	0	0	0	5	0	0
Slight	11	2	20	14.1	0	0	0	0	0	0
Slight	11	2	21	12	0	0	0	5	0	0
Slight	11	2	22	13.6	30	1	20	20	0	0
Slight	11	2	23	16.7	40	3	25	35	0	0
Slight	11	2	24	13.2	55	2	55	40	0	0
Slight	11	3	1	12.5	5	0	0	10	1	0
Slight	11	3	2	14.6	40	0	20	25	0	10

Slight	11	3	3	13.5	10	0	0	5	0	0
Slight	11	3	4	12.9	15	0	0	5	0	0
Slight	11	3	5	15.5	5	0	0	20	1	10
Slight	11	3	6	18	0	0	0	0	0	0
Slight	11	3	7	17	15	0	0	5	0	0
Slight	11	3	8	13.8	20	0	10	10	0	0
Slight	11	3	9	17.6	40	0	20	35	0	0
Slight	11	3	10	10.4	15	0	0	0	0	0
Slight	11	3	11	16.5	0	0	0	0	0	0
Slight	11	3	12	12	0	0	0	0	0	0
Slight	11	3	13	11.5	0	0	0	0	0	0
Slight	11	3	14	22.3	0	0	0	0	0	0
Slight	11	3	15	10.2	10	0	0	5	0	0
Slight	11	3	16	14.1	0	0	0	0	0	0
Slight	11	3	17	16.9	15	0	0	0	0	0
Slight	11	3	18	11.4	0	0	0	0	0	0
Slight	11	3	19	13	40	0	20	35	0	0
Slight	11	3	20	19.8	10	0	0	5	0	0
Slight	11	3	21	19.5	10	0	0	5	0	0
None	2	1	1	21.5	5	1	0	0	0	0
None	2	1	2	22	10	1	0	0	0	0
None	2	1	3	14.8	0	0	0	0	0	0
None	2	1	4	19.3	0	0	0	0	0	0
None	2	1	5	11	0	0	0	5	0	0
None	2	1	6	17.2	0	0	0	5	0	0
None	2	1	7	12.6	0	0	0	10	0	0
None	2	1	8	14.8	0	0	0	0	0	0
None	2	1	9	16.6	5	1	0	5	0	0
None	2	1	10	25.4	5	1	0	0	0	0
None	2	1	11	19.1	0	0	0	0	0	0
None	2	1	12	14.5	0	0	0	0	0	0
None	2	1	13	15.4	0	0	0	0	0	0
None	2	1	14	23.6	10	1	0	0	0	0
None	2	1	15	19.9	0	0	0	0	0	0
None	2	1	16	19.1	10	2	0	0	0	0
None	2	1	17	15.7	0	0	0	0	0	0
None	2	1	18	9.2	0	0	0	0	0	0
None	2	1	19	19.7	0	0	0	0	0	0
None	2	1	20	14.3	0	0	0	0	0	0
None	2	1	21	15.2	0	0	0	0	0	0
None	2	1	22	17.4	0	0	0	0	0	0
None	2	1	23	15	60	0	0	70	1	65
None	2	1	24	13	85	3	70	0	0	0
None	2	1	25	17	10	1	5	0	0	0
None	2	1	26	20.2	0	0	0	0	0	0
None	2	1	27	17.4	10	2	0	0	0	0
None	2	1	28	20.5	10	2	0	0	0	0
None	2	1	29	21.2	0	0	0	0	0	0
None	2	2	1	11	0	0	0	5	0	0
None	2	2	2	15.3	0	0	0	0	0	0
None	2	2	3	9.2	0	0	0	0	0	0
None	2	2	4	10.2	0	0	0	0	0	0
None	2	2	5	13.5	0	2	0	0	0	0
None	2	2	6	14.5	0	0	0	0	0	0
None	2	2	7	11.5	0	0	0	0	0	0
None	2	2	8	18.8	0	0	0	0	0	0
None	2	2	9	12	0	0	0	5	0	0
None	2	2	10	10.5	0	0	0	0	0	0

None	2	2	11	12.2	0	0	0	0	0	0
None	2	2	12	9.8	0	0	0	0	0	0
None	2	2	13	9.2	0	0	0	0	0	0
None	2	2	14	10.7	0	0	0	0	0	0
None	2	2	15	9.4	0	0	0	5	0	0
None	2	2	16	11.7	0	0	0	0	0	0
None	2	2	17	16.1	0	0	0	0	0	0
None	2	2	18	15.1	0	0	0	0	0	0
None	2	2	19	16.1	15	2	0	10	0	0
None	2	2	20	15.2	20	3	0	15	0	0
None	2	2	21	11.2	0	0	0	0	0	0
None	2	2	22	16.1	0	0	0	0	0	0
None	2	2	23	17.7	0	0	0	0	0	0
None	2	3	1	15.8	0	2	10	5	0	0
None	2	3	2	21	0	3	0	0	0	0
None	2	3	3	13.2	15	0	0	0	0	0
None	2	3	4	11	10	0	0	0	0	0
None	2	3	5	9.8	0	2	0	0	0	0
None	2	3	6	11.6	5	0	0	0	0	0
None	2	3	7	11	0	2	0	0	0	0
None	2	3	8	11.5	0	0	0	0	0	0
None	2	3	9	9.9	0	0	0	0	0	0
None	2	3	10	8.2	0	0	0	0	0	0
None	2	3	11	7.8	0	0	0	0	0	0
None	2	3	12	14	10	1	0	0	0	0
None	2	3	13	9.8	0	0	0	0	0	0
None	2	3	14	10.2	0	0	0	0	0	0
None	2	3	15	10.6	40	2	70	45	0	0
None	2	3	16	17.2	45	1	40	40	0	0
None	2	3	17	11.4	20	4	0	0	0	0
None	2	3	18	14.2	0	0	0	20	1	15
None	2	3	19	15.4	10	2	0	0	0	0
None	2	3	20	17.3	15	3	0	0	0	0
None	2	3	21	10.5	30	3	40	30	0	0
None	2	3	22	11.3	20	2	0	5	0	0
None	2	3	23	12.2	15	2	0	0	0	0
None	2	3	24	15.4	45	3	10	40	0	0
None	2	3	25	14.2	0	0	0	0	0	0

Analysis of variance using the SAS System of the data on four types of top dying severity classes (i.e. sclass), compartment number (compt), sample plot number (plot), diameter at breast height (DBH), per cent crown affected (crownpe), number of main branches affected (nomainb), number of main stem affected (mainstep) by top dying as observed in October 2001 and per cent crown affected (crownper), number of main branches affected (nomainbr), number of main stem affected (mainstpe) by top dying as observed in January 2002 of 708 sundri trees in 36 sample plots falling in four top dying severity classes (i.e. none, slight, moderate and severe) in 12 compartments in the Sundarbans

General Linear Models Procedure

Class Level Information

Class	Levels	Values
SCLASS	4	Moderate None Severe Slight

Number of observations in data set = 708

1) Dependent Variable: DBH (i.e diameter at breast height as observed during the first trip in October 2001)

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	3134.64878777	1044.88292926	1.09	0.3540
Error	704	676955.27001166	961.58419036		

Corrected Total	707	680089.91879944

R-Square	C.V.	Root MSE	DBH Mean
0.004609	139.4310	31.00942099	22.23997175

Source	DF	Type I SS	Mean Square	F Value	Pr > F
SCLASS	3	3134.64878777	1044.88292926	1.09	0.3540

Source	DF	Type III SS	Mean Square	F Value	Pr > F
SCLASS	3	3134.64878777	1044.88292926	1.09	0.3540

Parameter		Estimate	T for H0: Parameter=0	Pr > |T|	Std Error of Estimate
INTERCEPT		23.30533981 B	10.79	0.0001	2.16052874
SCLASS	Moderate	-4.48759787 B	-1.43	0.1529	3.13650951
	None	-0.33059754 B	-0.11	0.9152	3.10233847
	Severe	1.18482413 B	0.33	0.7381	3.54255869
	Slight	0.00000000 B	.	.	.

NOTE: The X'X matrix has been found to be singular and a generalized inverse was used to solve the normal equations. Estimates followed ny the letter 'B' are biased, and are not unique estimators of the parameters.

2) Dependent Variable: CROWNPE (i.e per cent of crown affected as observed during the First trip in October 2001)

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	83040.75213040	27680.25071013	66.03	0.0001
Error	704	295104.13346282	419.18200776		
Corrected Total	707	378144.88559322			

R-Square	C.V.	Root MSE	CROWNPE Mean
0.219600	128.0638	20.47393484	15.98728814

Source	DF	Type I SS	Mean Square	F Value	Pr > F
SCLASS	3	83040.75213040	27680.25071013	66.03	0.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
SCLASS	3	83040.75213040	27680.25071013	66.03	0.0001

Parameter		Estimate	T for H0: Parameter=0	Pr > |T|	Std Error of Estimate
INTERCEPT		9.05825243 B	6.35	0.0001	1.42648663
SCLASS	Moderate	11.10303790 B	5.36	0.0001	2.07087682
	None	-2.69227305 B	-1.31	0.1891	2.04831543
	Severe	27.56469839 B	11.78	0.0001	2.33897033
	Slight	0.00000000 B	.	.	.

NOTE: The X'X matrix has been found to be singular and a generalized inverse was used to solve the normal equations. Estimates followed by the letter 'B' are biased, and are not unique estimators of the parameters.

3) Dependent Variable: NOMAINB (i.e number of main branches affected as observed during the first observation in October 2001)

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	60.16501023	20.05500341	18.28	0.0001
Error	704	772.49459429	1.09729346		
Corrected Total	707	832.65960452			

R-Square	C.V.	Root MSE	NOMAINB Mean
0.072256	137.5960	1.04751776	0.76129944

Source	DF	Type I SS	Mean Square	F Value	Pr > F
SCLASS	3	60.16501023	20.05500341	18.28	0.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
SCLASS	3	60.16501023	20.05500341	18.28	0.0001

Parameter		Estimate	T for H0: Parameter=0	Pr > |T|	Std Error of Estimate
INTERCEPT		0.5825242718 B	7.98	0.0001	0.07298402
SCLASS	Moderate	0.1755402443 B	1.66	0.0980	0.10595327
	None	-.0155139626 B	-0.15	0.8824	0.10479895
	Severe	0.7945249085 B	6.64	0.0001	0.11966986
	Slight	0.0000000000 B	.	.	.

NOTE: The X'X matrix has been found to be singular and a generalized inverse was used to solve the normal equations. Estimates followed by the letter 'B' are biased, and are not unique estimators of the parameters.

4) Dependent Variable: MAINSTP (i.e. per cent of main stem affected by top dying as observed during the first trip in October 2001)

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	58983.34557361	19661.11519120	62.19	0.0001
Error	704	222559.20103656	316.13522875		
Corrected Total	707	281542.54661017			

R-Square	C.V.	Root MSE	MAINSTP Mean
0.209501	165.6583	17.78019203	10.73305085

Source	DF	Type I SS	Mean Square	F Value	Pr > F
SCLASS	3	58983.34557361	19661.11519120	62.19	0.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
SCLASS	3	58983.34557361	19661.11519120	62.19	0.0001

Parameter		Estimate	T for H0: Parameter=0	Pr > |T|	Std Error of Estimate
INTERCEPT		4.98543689 B	4.02	0.0001	1.23880468
SCLASS	Moderate	7.97155235 B	4.43	0.0001	1.79841286
	None	-1.72770493 B	-0.97	0.3318	1.77881985
	Severe	23.94898934 B	11.79	0.0001	2.03123347
	Slight	0.00000000 B	.	.	.

NOTE: The X'X matrix has been found to be singular and a generalized inverse was used to solve the normal equations. Estimates followed by the letter 'B' are biased, and are not unique estimators of the parameters.

5) Dependent Variable: CROWNPER (i.e per cent of crown affected as observed during the 2nd trip in January 2002)

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	79120.19376482	26373.39792161	71.98	0.0001
Error	704	257940.69182840	366.39302817		
Corrected Total	707	337060.88559322			

R-Square	C.V.	Root MSE	CROWNPER Mean
0.234736	127.7175	19.14139567	14.98728814

Source	DF	Type I SS	Mean Square	F Value	Pr > F
SCLASS	3	79120.19376482	26373.39792161	71.98	0.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
SCLASS	3	79120.19376482	26373.39792161	71.98	0.0001

Parameter		Estimate	T for H0: Parameter=0	Pr > |T|	Std Error of Estimate
INTERCEPT		8.74271845 B	6.56	0.0001	1.33364423
SCLASS	Moderate	10.02072241 B	5.18	0.0001	1.93609450
	None	-3.48498649 B	-1.82	0.0692	1.91500151
	Severe	26.50318319 B	12.12	0.0001	2.18673923
	Slight	0.00000000 B	.	.	.

NOTE: The X'X matrix has been found to be singular and a generalized inverse was used to solve the normal equations. Estimates followed by the letter 'B' are biased, and are not unique estimators of the parameters.

6) Dependent Variable: NOMAINBR (i.e number of main branches affected as observed during the second observation in January 2002)

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	132.07803059	44.02601020	79.90	0.0001
Error	704	387.89230839	0.55098339		
Corrected Total	707	519.97033898			

R-Square	C.V.	Root MSE	NOMAINBR Mean
0.254011	160.7144	0.74228256	0.46186441

Source	DF	Type I SS	Mean Square	F Value	Pr > F
SCLASS	3	132.07803059	44.02601020	79.90	0.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
SCLASS	3	132.07803059	44.02601020	79.90	0.0001

Parameter		Estimate	T for H0: Parameter=0	Pr > |T|	Std Error of Estimate
INTERCEPT		0.266990291 B	5.16	0.0001	0.05171728
SCLASS	Moderate	0.200751644 B	2.67	0.0077	0.07507964
	None	-0.169052147 B	-2.28	0.0231	0.07426168
	Severe	1.093665446 B	12.90	0.0001	0.08479937
	Slight	0.000000000 B	.	.	.

NOTE: The X'X matrix has been found to be singular and a generalized inverse was used to solve the normal equations. Estimates followed by the letter 'B' are biased, and are not unique estimators of the parameters.

7) Dependent Variable: MAINSTPE : (i.e. per cent of main stem affected by top dying as observed during the 2nd trip in January 2002)

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	52803.57757814	17601.19252605	62.17	0.0001
Error	700	198168.67100140	283.09810143		
Corrected Total	703	250972.24857955			

R-Square	C.V.	Root MSE	MAINSTPE Mean
0.210396	189.5530	16.82551935	8.87642045

Source	DF	Type I SS	Mean Square	F Value	Pr > F
SCLASS	3	52803.57757814	17601.19252605	62.17	0.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
SCLASS	3	52803.57757814	17601.19252605	62.17	0.0001

Parameter		Estimate	T for H0: Parameter=0	Pr > |T|	Std Error of Estimate
INTERCEPT		3.29207921 B	2.78	0.0056	1.18383941
SCLASS	Moderate	6.25093154 B	3.66	0.0003	1.70982705
	None	-0.51372869 B	-0.30	0.7614	1.69137350
	Severe	23.51119948 B	12.19	0.0001	1.92923612
	Slight	0.00000000 B	.	.	.

NOTE: The X'X matrix has been found to be singular and a generalized inverse was used to solve the normal equations. Estimates followed by the letter 'B' are biased, and are not unique estimators of the parameters.

Comparison of the state of health of the sundri trees in October 2001 and in January 2003 in 36 sample plots (each 400 sq m) at 12 landings in 10 compartments in the Sundarbans.

1) Total sundri trees						
SUMMARY					d	
Groups	*Count*	*Sum*	*Average*	*Variance*		
October 2001	32	615	19.21875	28.1119		
January 2003	36	711	19.75	28.19286		
ANOVA						
Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Between Groups	4.78125	1	4.78125	0.16982	0.681607	3.986273
Within Groups	1858.219	66	28.15483			
Total	1863	67				
2) Totally healthy sundri trees						
MARY					e	
Groups	*Count*	*Sum*	*Average*	*Variance*		
October 2001	32	263	8.21875	47.40222		
January 2003	36	12	0.333333	0.342857		
ANOVA						
Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Between Groups	1053.399	1	1053.399	46.92932	2.99E-09	3.986273
Within Groups	1481.469	66	22.4465			
Total	2534.868	67				
3) Sundri trees with twigs dying or dead (i.e. G2 type)						
SUMMARY					f	
Groups	*Count*	*Sum*	*Average*	*Variance*		
October 2001	32	148	4.625	10.69355		
January 2003	36	183	5.083333	28.93571		
ANOVA						
Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Between Groups	3.558824	1	3.558824	0.174731	0.677298	3.986273
Within Groups	1344.25	66	20.36742			

Total	1347.809	67				
4) Sundri trees having main branches dying or dead but less than 50% of the crown affected i.e. G3 type symptom)						
SUMMARY					g	
Groups	*Count*	*Sum*	*Average*	*Variance*		
October 2001	32	121	3.78125	6.240927		
January 2003	36	369	10.25	22.99286		
ANOVA						
Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Between Groups	708.8989	1	708.8989	46.87082	3.04E-09	3.986273
Within Groups	998.2188	66	15.12453			
Total	1707.118	67				
5) Sundri trees having main branches affected by top dying but more than 50% of the crown affected (i.e G4 type symptom)						
SUMMARY					h	
Groups	*Count*	*Sum*	*Average*	*Variance*		
October 2001	32	82	2.5625	7.350806		
January 2003	36	144	4	12		
ANOVA						
Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Between Groups	35.00735	1	35.00735	3.566252	0.063361	3.986273
Within Groups	647.875	66	9.816288			
Total	682.8824	67				
6) Sundri trees having dead main leader						
MARY					I	
Groups	*Count*	*Sum*	*Average*	*Variance*		
October 2001	32	188	5.875	22.04839		
January 2003	36	270	7.5	25.62857		
ANOVA						
Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Between Groups	44.73529	1	44.73529	1.868098	0.176331	3.986273
Within Groups	1580.5	66	23.94697			
Total	1625.235	67				
7) Sundri trees having healthy main leader						
MARY					j	
Groups	*Count*	*Sum*	*Average*	*Variance*		
October 2001	32	320	10	65.87097		
January 2003	36	440	12.22222	73.77778		
ANOVA						
Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*

Between Groups	83.66013	1	83.66013	1.194053	0.278486	3.986273
Within Groups	4624.222	66	70.06397			
Total	4707.882	67				
8) Sundri trees with healthy twigs						
MARY					k	
Groups	*Count*	*Sum*	*Average*	*Variance*		
October 2001	32	129	4.03125	33.51512		
January 2003	36	12	0.333333	0.514286		
ANOVA						
Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Between Groups	231.6636	1	231.6636	14.4657	0.000314	3.986273
Within Groups	1056.969	66	16.01468			
Total	1288.632	67				
9) Sundri trees with few twigs dead						
MARY					l	
Groups	*Count*	*Sum*	*Average*	*Variance*		
October 2001	32	341	10.65625	57.9748		
January 2003	36	693	19.25	28.13571		
ANOVA						
Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Between Groups	1251.149	1	1251.149	29.68251	8.11E-07	3.986273
Within Groups	2781.969	66	42.15104			
Total	4033.118	67				
10) Sundri trees with many twigs dead						
MARY					m	
Groups	*Count*	*Sum*	*Average*	*Variance*		
October 2001	32	9	0.28125	1.047379		
January 2003	36	3	0.083333	0.25		
ANOVA						
Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Between Groups	0.663603	1	0.663603	1.06257	0.306393	3.986273
Within Groups	41.21875	66	0.624527			
Total	41.88235	67				
11) Sundri trees with dying twigs						
MARY					n	
Groups	*Count*	*Sum*	*Average*	*Variance*		
October 2001	32	3	0.09375	0.152218		
January 2003	36	0	0	0		
ANOVA						
Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Between Groups	0.148897	1	0.148897	2.082587	0.153717	3.986273
Within Groups	4.71875	66	0.071496			
Total	4.867647	67				

12) Sundri trees with no dying twigs						
MARY					o	
Groups	*Count*	*Sum*	*Average*	*Variance*		
October 2001	32	475	14.84375	80.2006		
January 2003	36	710	19.72222	29.92063		
ANOVA						
Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Between Groups	403.1914	1	403.1914	7.531081	0.007803	3.986273
Within Groups	3533.441	66	53.53698			
Total	3936.632	67				
13) Sundri trees with few cankers						
MARY					p	
Groups	*Count*	*Sum*	*Average*	*Variance*		
October 2001	32	480	15	39.80645		
January 2003	36	332	9.222222	21.14921		
ANOVA						
Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Between Groups	565.5425	1	565.5425	18.90659	4.86E-05	3.986273
Within Groups	1974.222	66	29.91246			
Total	2539.765	67				
14) Sundri twigs with many cankers						
MARY					q	
Groups	*Count*	*Sum*	*Average*	*Variance*		
October 2001	32	73	2.28125	4.789315		
January 2003	36	79	2.194444	11.8754		
ANOVA						
Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Between Groups	0.127655	1	0.127655	0.014936	0.903103	3.986273
Within Groups	564.1076	66	8.547085			
Total	564.2353	67				
15) Sundri trees without cankers						
MARY					r	
Groups	*Count*	*Sum*	*Average*	*Variance*		
October 2001	32	7	0.21875	0.563508		
January 2003	36	292	8.111111	34.67302		
ANOVA						
Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Between Groups	1055.255	1	1055.255	56.57633	1.9E-10	3.986273
Within Groups	1231.024	66	18.65188			
Total	2286.279	67				
16) Sundri trees with loranthus						

MARY					s	
Groups	*Count*	*Sum*	*Average*	*Variance*		
October 2001	32	72	2.25	12.77419		
January 2003	36	40	1.111111	2.215873		
ANOVA						
Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Between Groups	21.97386	1	21.97386	3.062522	0.084765	3.986273
Within Groups	473.5556	66	7.175084			
Total	495.5294	67				
17) Sundri trees without loranthus						
SUMMARY					t	
Groups	*Count*	*Sum*	*Average*	*Variance*		
October 2001	31	442	14.25806	61.19785		
January 2003	36	673	18.69444	33.81825		
ANOVA						
Source of Variation	*SS*	*df*	*MS*	*F*	*P-value*	*F crit*
Between Groups	327.8286	1	327.8286	7.056908	0.009923	3.988561
Within Groups	3019.574	65	46.45499			
Total	3347.403	66				

Appendix 31: Total sundri and their distribution in seven infestation categories (i.e. healthy, infested by insect, infested by rattans, slightly infested by climbers, heavily infested by climbers, infested by loranthus and affected by top dying (dieback) in 1190 Temporary Sample Plots (TSP) sorted out in 55 compartments in the Sundarbans.

TSP Number	Compartment Number	Total sundri	No. of healthy sundri	No. of sundri infested by insect	No. of sundri infested by rattans	No. of sundri infested slightly by climbers	No. of sundri infested heavily by climbers	No. of sundri infested by loranthus	No. of sundri affected by top dying (dieback)
326	1	7	2	5	0	0	0	0	0
327	1	6	1	3	2	0	0	0	0
328	1	4	4	0	0	0	0	0	0
329	1	60	30	17	10	0	0	1	2
360	1	42	9	17	12	4	0	0	0
361	1	29	0	23	6	0	0	0	0
362	1	1	0	1	0	0	0	0	0
363	1	41	15	20	4	1	0	1	0
364	1	71	3	58	8	2	0	0	0
398	1	11	6	5	0	0	0	0	0
399	1	51	19	26	4	1	0	1	0
402	1	14	2	8	2	0	0	0	2
403	1	25	14	7	2	1	0	1	0
404	1	9	2	3	1	0	2	1	0
405	1	48	32	6	5	1	2	2	0
406	1	44	36	2	0	5	1	0	0
431	1	28	11	15	2	0	0	0	0
432	1	23	9	10	1	1	2	0	0
433	1	9	3	1	2	3	0	0	0
434	1	62	43	15	2	0	2	0	0
435	1	25	12	7	3	3	0	0	0
436	1	37	33	0	1	3	0	0	0
437	1	33	27	2	1	1	1	1	0
438	1	21	16	1	0	2	0	2	0
439	1	19	10	6	1	0	1	1	0
440	1	30	14	16	0	0	0	0	0
441	1	47	26	6	8	4	2	1	0
469	1	52	48	0	3	0	0	0	1
470	1	39	39	0	0	0	0	0	0
471	1	27	23	1	2	1	0	0	0
	Sub total:	915	489	281	82	33	13	12	5
322	2	10	0	9	1	0	0	0	0
330	2	32	5	21	5	0	1	0	0
357	2	47	31	10	4	2	0	0	0
358	2	14	5	8	0	1	0	0	0
359	2	38	3	25	5	4	0	0	1
365	2	41	19	22	0	0	0	0	0
366	2	35	19	12	4	0	0	0	0
367	2	29	13	16	0	0	0	0	0
368	2	20	11	4	0	5	0	0	0
394	2	58	52	2	1	0	0	0	3
395	2	50	31	18	0	1	0	0	0
396	2	21	3	11	6	1	0	0	0

397	2	14	1	2	3	8	0	0	0
407	2	4	3	0	1	0	0	0	0
408	2	17	17	0	0	0	0	0	0
409	2	73	52	10	6	0	0	5	0
428	2	26	20	0	1	5	0	0	0
429	2	31	16	6	6	1	1	1	0
430	2	6	4	0	1	1	0	0	0
442	2	52	40	1	4	4	2	0	1
	Sub total:	**618**	**345**	**177**	**48**	**33**	**4**	**6**	**5**
321	3	22	13	5	2	2	0	0	0
324	3	13	11	2	0	0	0	0	0
325	3	11	3	7	1	0	0	0	0
331	3	25	14	6	0	4	1	0	0
1167	3	25	2	4	2	9	7	0	1
1168	3	109	45	39	3	10	9	1	2
1169	3	48	17	19	0	6	5	1	0
1170	3	22	0	16	5	1	0	0	0
1171	3	9	1	7	0	0	1	0	0
1174	3	50	7	33	6	0	4	0	0
1175	3	70	4	20	8	35	3	0	0
1176	3	36	1	4	6	21	4	0	0
1199	3	109	56	41	7	0	0	5	0
1200	3	20	7	8	2	2	0	0	1
1201	3	9	5	0	1	1	2	0	0
1202	3	27	21	5	1	0	0	0	0
1203	3	1	1	0	0	0	0	0	0
	Sub total:	**606**	**208**	**216**	**44**	**91**	**36**	**7**	**4**
1136	4	79	32	33	9	3	0	0	2
1060	4	19	5	9	0	3	2	0	0
1076	4	37	8	14	1	9	4	0	1
1077	4	37	3	23	2	3	4	0	2
1089	4	14	5	5	0	4	0	0	0
1090	4	27	15	1	1	7	2	0	1
1107	4	38	13	20	1	4	0	0	0
1114	4	23	11	11	1	0	0	0	0
1115	4	40	11	25	4	0	0	0	0
1116	4	12	8	2	0	1	1	0	0
1117	4	38	0	19	1	11	7	0	0
1135	4	55	17	13	12	6	7	0	0
1137	4	22	12	4	0	4	2	0	0
1141	4	37	24	8	3	2	0	0	0
1142	4	21	4	8	2	1	6	0	0
1143	4	3	0	0	1	2	0	0	0
1144	4	38	12	22	4	0	0	0	0
	Sub total:	**540**	**180**	**217**	**42**	**60**	**35**	**0**	**6**
1079	5	18	2	7	0	5	4	0	0
1080	5	16	3	6	1	6	0	0	0
1081	5	39	4	19	0	2	12	1	1
1082	5	22	1	7	1	6	7	0	0
1083	5	5	2	2	1	0	0	0	0
1084	5	40	8	15	1	7	8	1	0
1085	5	27	13	10	2	2	0	0	0

1086	5	4	0	1	0	3	0	0	0
1110	5	1	0	1	0	0	0	0	0
1111	5	51	22	22	1	4	2	0	0
1112	5	2	1	1	0	0	0	0	0
1113	5	29	0	14	10	5	0	0	0
1138	5	55	29	11	5	7	2	0	1
1139	5	48	0	34	7	6	0	1	0
1140	5	5	0	1	2	1	1	0	0
1172	5	30	17	5	2	4	1	0	1
1173	5	20	0	15	4	1	0	0	0
	Sub total:	**412**	**102**	**171**	**37**	**59**	**37**	**3**	**3**
1008	6	0	0	0	0	0	0	0	0
1023	6	0	0	0	0	0	0	0	0
1024	6	0	0	0	0	0	0	0	0
1025	6	0	0	0	0	0	0	0	0
1026	6	2	2	0	0	0	0	0	0
1027	6	13	5	2	2	4	0	0	0
1028	6	39	21	1	8	6	3	0	0
1051	6	16	13	0	2	1	0	0	0
1052	6	38	18	1	9	10	0	0	0
1053	6	17	6	7	1	2	0	1	0
1054	6	0	0	0	0	0	0	0	0
1055	6	0	0	0	0	0	0	0	0
1056	6	2	1	1	0	0	0	0	0
1057	6	22	3	8	2	9	0	0	0
1058	6	8	3	2	1	2	0	0	0
1059	6	6	2	0	0	3	0	1	0
1078	6	31	4	15	5	4	3	0	0
1087	6	47	21	13	4	9	0	0	0
1088	6	27	3	15	3	4	2	0	0
1108	6	28	1	13	2	4	7	1	0
1109	6	30	18	7	3	0	0	0	2
	Sub total:	**326**	**121**	**85**	**42**	**58**	**15**	**3**	**2**
1020	7	0	0	0	0	0	0	0	0
1021	7	13	7	5	0	1	0	0	0
1022	7	3	1	2	0	0	0	0	0
1030	7	17	6	8	0	2	1	0	0
1031	7	12	4	4	0	1	3	0	0
1032	7	12	0	8	1	2	1	0	0
1033	7	0	0	0	0	0	0	0	0
1034	7	0	0	0	0	0	0	0	0
1043	7	0	0	0	0	0	0	0	0
1044	7	6	1	3	1	1	0	0	0
1045	7	25	17	5	1	2	0	0	0
1046	7	28	0	19	1	5	1	0	2
1047	7	14	2	9	2	0	0	0	1
1048	7	0	0	0	0	0	0	0	0
1049	7	11	0	1	1	2	7	0	0
1050	7	38	19	12	2	4	1	0	0
1061	7	31	13	15	0	3	0	0	0
1062	7	11	5	4	1	1	0	0	0
1063	7	30	23	1	4	2	0	0	0

1064	7	2	2	0	0	0	0	0	0
1073	7	5	5	0	0	0	0	0	0
1074	7	1	1	0	0	0	0	0	0
1075	7	19	6	6	4	2	1	0	0
1091	7	21	9	10	1	1	0	0	0
1092	7	49	19	29	0	1	0	0	0
1104	7	19	1	8	1	7	2	0	0
1105	7	16	0	9	0	3	4	0	0
1106	7	26	0	3	0	16	7	0	0
1118	7	41	18	12	11	0	0	0	0
1119	7	23	17	2	1	3	0	0	0
	Sub total:	**473**	**176**	**175**	**32**	**59**	**28**	**0**	**3**
983	8	41	16	6	1	3	3	3	9
992	8	0	0	0	0	0	0	0	0
993	8	4	4	0	0	0	0	0	0
994	8	0	0	0	0	0	0	0	0
995	8	17	13	1	1	0	0	0	2
996	8	0	0	0	0	0	0	0	0
997	8	14	13	0	1	0	0	0	0
1004	8	33	19	3	0	1	0	5	5
1005	8	26	14	6	0	2	0	3	1
1006	8	25	18	2	0	1	0	0	4
1007	8	19	12	2	0	0	0	4	1
1009	8	12	9	1	0	0	0	1	1
1010	8	44	32	1	1	10	0	0	0
1011	8	28	14	9	0	0	0	5	0
1012	8	73	53	10	1	0	0	5	4
1013	8	0	0	0	0	0	0	0	0
1016	8	58	39	5	0	0	0	13	1
1017	8	21	13	6	0	0	0	1	1
1018	8	17	3	8	0	0	0	6	0
1019	8	50	32	3	0	0	0	10	5
1035	8	1	1	0	0	0	0	0	0
1036	8	13	9	2	0	0	0	0	2
1037	8	0	0	0	0	0	0	0	0
1038	8	0	0	0	0	0	0	0	0
1039	8	0	0	0	0	0	0	0	0
1040	8	78	47	12	4	3	1	10	1
1041	8	13	4	6	0	2	0	1	0
1042	8	54	51	2	0	0	0	1	0
1065	8	0	0	0	0	0	0	0	0
1066	8	5	4	1	0	0	0	0	0
1068	8	2	1	0	1	0	0	0	0
1069	8	45	39	2	2	0	0	2	0
1070	8	16	15	1	0	0	0	0	0
1071	8	1	1	0	0	0	0	0	0
1095	8	22	20	0	0	0	0	2	0
1096	8	2	2	0	0	0	0	0	0
	Sub total:	**734**	**498**	**89**	**12**	**22**	**4**	**72**	**37**
1072	9	15	15	0	0	0	0	0	0
1093	9	1	1	0	0	0	0	0	0
1094	9	5	5	0	0	0	0	0	0

1100	9	7	7	0	0	0	0	0	0
1101	9	0	0	0	0	0	0	0	0
1102	9	27	23	2	1	0	0	1	0
1103	9	0	0	0	0	0	0	0	0
1120	9	0	0	0	0	0	0	0	0
1121	9	13	11	0	0	2	0	0	0
1122	9	51	39	7	2	3	0	0	0
1123	9	2	2	0	0	0	0	0	0
1124	9	0	0	0	0	0	0	0	0
1125	9	1	1	0	0	0	0	0	0
1126	9	0	0	0	0	0	0	0	0
1127	9	7	6	0	0	0	0	0	1
1128	9	0	0	0	0	0	0	0	0
1129	9	30	16	1	0	0	1	12	0
1130	9	1	1	0	0	0	0	0	0
1131	9	16	10	0	0	1	0	5	0
1149	9	24	14	0	3	2	4	0	1
1150	9	7	4	1	1	1	0	0	0
1151	9	0	0	0	0	0	0	0	0
1152	9	0	0	0	0	0	0	0	0
1153	9	0	0	0	0	0	0	0	0
1154	9	6	4	1	1	0	0	0	0
1155	9	9	9	0	0	0	0	0	0
1158	9	2	2	0	0	0	0	0	0
1159	9	54	38	6	2	7	0	0	1
1160	9	37	29	2	0	0	0	6	0
1161	9	22	19	1	0	0	0	2	0
1162	9	20	14	1	3	2	0	0	0
1163	9	47	36	4	0	4	0	0	3
1164	9	3	3	0	0	0	0	0	0
1165	9	40	28	2	3	7	0	0	0
1181	9	13	8	4	0	1	0	0	0
1194	9	20	7	5	0	8	0	0	0
	Sub total:	**480**	**352**	**37**	**16**	**38**	**5**	**26**	**6**
314	10	88	73	7	0	5	0	2	1
315	10	25	17	7	0	1	0	0	0
316	10	45	22	6	0	14	1	2	0
317	10	89	44	8	1	33	2	1	0
318	10	39	27	6	1	5	0	0	0
319	10	24	10	7	4	3	0	0	0
338	10	30	11	3	3	8	4	1	0
339	10	26	7	2	1	15	1	0	0
340	10	17	13	4	0	0	0	0	0
341	10	50	31	4	5	10	0	0	0
342	10	79	53	7	6	9	2	0	2
1182	10	31	27	0	0	0	0	2	2
1183	10	48	43	4	0	0	0	0	1
1184	10	32	5	2	0	21	0	0	4
1185	10	18	13	3	1	1	0	0	0
1190	10	67	62	3	2	0	0	0	0
1191	10	12	4	2	0	5	0	0	1
1192	10	26	20	2	1	3	0	0	0

1193	10	21	9	6	1	5	0	0	0
	Sub total:	**767**	**491**	**83**	**26**	**138**	**10**	**8**	**11**
323	11	100	48	47	3	0	0	0	2
1132	11	7	5	1	0	1	0	0	0
1133	11	20	7	8	1	4	0	0	0
1134	11	11	2	8	1	0	0	0	0
1145	11	9	0	4	2	2	0	0	1
1146	11	30	5	12	2	2	9	0	0
1147	11	30	8	17	2	0	3	0	0
1148	11	8	6	1	0	1	0	0	0
1166	11	4	3	0	0	1	0	0	0
1177	11	42	22	3	8	9	0	0	0
1178	11	22	8	6	7	1	0	0	0
1195	11	0	0	0	0	0	0	0	0
1196	11	21	13	5	2	1	0	0	0
1197	11	41	18	7	5	11	0	0	0
1198	11	44	26	10	3	2	2	1	0
	Sub total:	**389**	**171**	**129**	**36**	**35**	**14**	**1**	**3**
320	12B	27	23	2	0	0	0	2	0
332	12B	5	2	2	1	0	0	0	0
333	12B	17	4	12	0	0	1	0	0
334	12B	29	29	0	0	0	0	0	0
335	12B	39	36	3	0	0	0	0	0
336	12A	24	3	1	2	12	6	0	0
337	12A	32	17	3	2	5	5	0	0
351	12A	62	31	6	8	16	0	1	0
352	12A	39	23	6	1	4	4	1	0
353	12B	1	1	0	0	0	0	0	0
354	12B	18	8	6	1	3	0	0	0
355	12B	15	3	7	3	1	0	1	0
356	12B	11	11	0	0	0	0	0	0
369	12B	35	24	7	4	0	0	0	0
370	12B	19	9	9	0	1	0	0	0
371	12B	13	9	3	0	1	0	0	0
372	12B	35	29	4	0	2	0	0	0
373	12A	15	3	3	0	6	3	0	0
374	12A	47	33	6	3	1	4	0	0
	Sub total:	**483**	**298**	**80**	**25**	**52**	**23**	**5**	**0**
392	13	26	24	2	0	0	0	0	0
393	13	7	7	0	0	0	0	0	0
410	13	29	15	8	3	2	0	0	1
411	13	97	61	11	6	13	0	0	6
426	13	36	34	1	0	0	0	0	1
427	13	138	113	6	10	8	1	0	0
443	13	30	16	10	3	1	0	0	0
444	13	57	42	3	2	8	1	0	1
445	13	74	58	2	2	11	0	0	1
463	13	43	31	6	5	1	0	0	0
464	13	38	27	6	3	1	0	0	1
465	13	22	20	2	0	0	0	0	0
475	13	68	62	2	1	0	0	2	1
476	13	57	31	9	8	6	3	0	0

477	13	39	22	6	5	4	0	1	1
494	13	95	79	4	8	2	0	2	0
495	13	80	60	7	7	4	0	2	0
501	13	21	19	0	0	1	0	0	1
502	13	59	29	14	5	8	0	0	3
	Sub total:	**1016**	**750**	**99**	**68**	**70**	**5**	**7**	**17**
391	14	28	21	3	0	4	0	0	0
412	14	71	42	8	7	14	0	0	0
413	14	37	19	0	6	5	5	2	0
424	14	31	18	8	0	2	2	0	1
425	14	57	26	11	5	7	5	3	0
446	14	3	1	0	0	0	1	0	1
447	14	51	26	11	3	6	2	3	0
448	14	36	14	15	3	4	0	0	0
460	14	50	31	7	1	2	5	4	0
461	14	19	7	0	7	4	1	0	0
462	14	95	75	0	10	3	3	3	1
479	14	64	40	4	0	10	6	4	0
	Sub total:	**542**	**320**	**67**	**42**	**61**	**30**	**19**	**3**
348	15	88	40	13	16	19	0	0	0
349	15	59	23	10	4	17	5	0	0
350	15	71	48	2	4	12	5	0	0
375	15	53	19	12	10	10	2	0	0
376	15	46	29	6	3	7	1	0	0
377	15	76	42	24	5	5	0	0	0
378	15	89	34	13	15	26	1	0	0
387	15	64	49	0	4	9	1	1	0
388	15	77	28	28	12	9	0	0	0
389	15	78	45	15	14	3	0	1	0
390	15	46	21	0	3	22	0	0	0
414	15	52	26	17	8	1	0	0	0
415	15	48	32	16	0	0	0	0	0
421	15	40	13	17	10	0	0	0	0
422	15	39	19	18	2	0	0	0	0
	Sub total:	**926**	**468**	**191**	**110**	**140**	**15**	**2**	**0**
106	16	21	7	5	1	8	0	0	0
107	16	59	14	17	0	15	7	6	0
146	16	12	3	5	4	0	0	0	0
147	16	75	32	9	2	22	5	2	3
148	16	3	0	1	0	2	0	0	0
345	16	10	4	2	0	0	2	2	0
379	16	1	0	0	0	0	1	0	0
380	16	26	7	9	1	7	2	0	0
381	16	20	6	5	1	8	0	0	0
382	16	23	3	11	0	9	0	0	0
383	16	26	9	5	4	7	1	0	0
384	16	25	10	7	2	5	1	0	0
385	16	24	6	8	0	10	0	0	0
386	16	45	6	1	8	9	9	12	0
416	16	40	20	4	1	9	1	4	1
417	16	53	36	5	12	0	0	0	0
418	16	16	6	1	0	8	0	0	1

419	16	59	21	6	9	22	0	0	1
420	16	41	12	10	3	9	7	0	0
453	16	82	58	9	5	7	3	0	0
	Sub total:	**661**	**260**	**120**	**53**	**157**	**39**	**26**	**6**
21	17	0	0	0	0	0	0	0	0
22	17	62	27	8	6	17	4	0	0
23	17	11	9	1	1	0	0	0	0
24	17	0	0	0	0	0	0	0	0
25	17	0	0	0	0	0	0	0	0
63	17	20	12	0	5	1	0	2	0
64	17	17	10	0	2	3	1	1	0
65	17	1	1	0	0	0	0	0	0
313	17	48	17	17	2	12	0	0	0
343	17	23	2	2	1	1	3	11	3
344	17	52	37	4	0	11	0	0	0
346	17	17	5	3	0	4	4	1	0
347	17	71	41	9	5	11	4	1	0
958	17	73	65	0	0	0	0	1	7
959	17	8	5	2	0	1	0	0	0
960	17	0	0	0	0	0	0	0	0
961	17	51	14	1	1	5	1	27	2
1156	17	3	3	0	0	0	0	0	0
1157	17	67	21	40	1	4	0	1	0
1186	17	0	0	0	0	0	0	0	0
1187	17	21	18	0	0	1	0	2	0
1188	17	9	4	0	0	1	3	0	1
1189	17	23	8	6	3	6	0	0	0
	Sub total:	**577**	**299**	**93**	**27**	**78**	**20**	**47**	**13**
779	18	13	9	4	0	0	0	0	0
780	18	30	11	15	4	0	0	0	0
811	18	68	43	16	5	0	0	2	2
812	18	19	4	9	1	3	1	1	0
813	18	56	36	9	0	5	0	2	4
814	18	20	20	0	0	0	0	0	0
815	18	29	27	1	0	0	0	1	0
816	18	0	0	0	0	0	0	0	0
817	18	5	3	2	0	0	0	0	0
841	18	15	4	4	1	0	3	0	3
842	18	34	5	18	6	0	0	0	5
843	18	14	6	4	2	2	0	0	0
844	18	27	7	18	0	0	0	0	2
845	18	0	0	0	0	0	0	0	0
846	18	0	0	0	0	0	0	0	0
847	18	0	0	0	0	0	0	0	0
848	18	1	1	0	0	0	0	0	0
849	18	25	22	0	0	0	0	1	2
850	18	15	8	2	2	0	0	0	3
851	18	4	4	0	0	0	0	0	0
852	18	27	11	10	1	0	0	1	4
853	18	0	0	0	0	0	0	0	0
877	18	16	0	9	0	0	0	5	2
878	18	6	0	0	1	0	0	0	5

379	18	30	16	9	1	0	0	0	4
880	18	0	0	0	0	0	0	0	0
881	18	0	0	0	0	0	0	0	0
882	18	32	20	3	0	0	0	0	9
883	18	54	48	2	0	1	0	3	0
884	18	64	55	4	0	0	0	2	3
885	18	0	0	0	0	0	0	0	0
887	18	26	23	1	0	0	0	0	2
888	18	52	45	0	0	1	0	0	6
889	18	0	0	0	0	0	0	0	0
892	18	26	18	1	0	0	0	1	6
919	18	53	36	13	3	1	0	0	0
920	18	8	4	0	0	0	0	0	4
	Sub total:	**769**	**486**	**154**	**27**	**13**	**4**	**19**	**66**
890	19	18	14	3	0	0	0	1	0
891	19	32	28	0	0	0	0	2	2
915	19	2	1	1	0	0	0	0	0
916	19	0	0	0	0	0	0	0	0
917	19	3	1	0	2	0	0	0	0
918	19	47	24	7	5	2	4	4	1
921	19	29	18	8	0	2	1	0	0
922	19	1	1	0	0	0	0	0	0
923	19	67	55	2	0	0	4	3	3
924	19	17	8	1	1	0	1	4	2
925	19	0	0	0	0	0	0	0	0
926	19	7	0	0	0	0	0	7	0
927	19	37	31	2	0	0	0	1	3
928	19	63	48	13	2	0	0	0	0
953	19	16	10	2	0	0	0	0	4
954	19	41	25	3	0	0	0	5	8
955	19	26	11	2	0	0	0	5	8
956	19	65	18	1	1	0	0	37	8
957	19	37	18	5	0	14	0	0	0
963	19	75	52	1	0	0	0	11	11
964	19	3	1	0	0	0	0	0	2
	Sub total:	**586**	**364**	**51**	**11**	**18**	**10**	**80**	**52**
17	20	17	10	2	0	1	4	0	0
18	20	38	11	15	5	4	0	0	3
19	20	35	11	11	9	4	0	0	0
20	20	29	17	3	5	0	0	1	3
26	20	13	5	2	6	0	0	0	0
27	20	55	22	19	11	0	0	0	3
28	20	25	10	10	5	0	0	0	0
29	20	31	15	3	7	2	2	2	0
30	20	28	6	19	3	0	0	0	0
58	20	27	18	0	2	1	0	0	6
59	20	19	9	5	4	0	0	1	0
60	20	40	18	19	2	0	0	0	1
61	20	47	20	14	11	0	0	1	1
62	20	51	17	26	7	0	0	1	0
66	20	23	16	1	0	5	0	0	1
67	20	33	19	11	1	0	1	0	1

68	20	43	14	12	12	0	2	0	3
69	20	18	11	5	0	0	0	0	2
102	20	36	23	0	0	3	5	5	0
103	20	34	14	0	10	7	2	0	1
104	20	57	25	6	13	11	1	0	1
105	20	7	5	0	1	0	1	0	0
108	20	43	29	5	3	1	1	0	4
109	20	28	23	0	2	0	0	1	2
110	20	21	14	1	3	3	0	0	0
962	20	37	21	9	5	2	0	0	0
	Sub total:	**835**	**403**	**198**	**127**	**44**	**19**	**12**	**32**
423	21	30	15	14	1	0	0	0	0
449	21	38	18	14	3	1	2	0	0
450	21	64	37	8	8	6	4	0	1
451	21	55	31	6	3	8	7	0	0
452	21	75	48	5	5	7	10	0	0
455	21	66	64	0	0	0	0	1	1
456	21	21	4	9	6	1	0	1	0
457	21	42	24	13	2	3	0	0	0
458	21	46	26	15	5	0	0	0	0
459	21	53	26	2	2	18	5	0	0
480	21	53	23	2	2	21	5	0	0
481	21	20	18	1	1	0	0	0	0
482	21	22	7	15	0	0	0	0	0
483	21	49	19	21	7	2	0	0	0
	Sub total:	**634**	**360**	**125**	**45**	**67**	**33**	**2**	**2**
488	22	24	1	9	7	4	0	3	0
489	22	46	28	2	2	11	2	0	1
490	22	58	29	7	4	18	0	0	0
491	22	42	19	0	3	17	0	0	3
505	22	50	34	6	1	9	0	0	0
506	22	50	24	2	0	14	4	0	6
507	22	99	19	27	32	12	4	1	4
515	22	36	25	2	3	0	1	1	4
516	22	109	58	21	9	13	0	4	4
517	22	25	23	1	1	0	0	0	0
518	22	32	8	18	1	5	0	0	0
535	22	60	11	25	17	2	0	3	2
536	22	64	15	24	18	0	4	0	3
	Sub total:	**695**	**294**	**144**	**98**	**105**	**15**	**12**	**27**
478	23	68	47	6	6	4	1	3	1
492	23	80	72	3	1	3	0	0	1
493	23	73	59	4	3	4	0	0	3
503	23	47	35	7	2	0	2	1	0
504	23	13	9	4	0	0	0	0	0
519	23	32	13	9	3	5	2	0	0
520	23	26	10	13	0	3	0	0	0
521	23	22	9	10	2	1	0	0	0
522	23	82	66	3	6	5	1	1	0
531	23	103	89	7	2	4	0	1	0
534	23	36	10	16	4	5	0	0	1
	Sub total:	**582**	**419**	**82**	**29**	**34**	**6**	**6**	**6**

466	24	46	34	3	4	2	0	0	3
467	24	37	20	1	6	8	2	0	0
468	24	71	61	2	4	3	1	0	0
472	24	34	24	3	3	3	0	1	0
473	24	36	14	17	5	0	0	0	0
474	24	50	45	1	1	0	1	0	2
496	24	40	26	6	3	2	0	2	1
497	24	38	22	6	3	4	1	1	1
498	24	18	8	4	4	0	0	2	0
499	24	81	56	4	5	12	3	0	1
500	24	32	21	1	3	5	2	0	0
524	24	49	44	0	1	2	2	0	0
525	24	25	12	6	4	2	1	0	0
526	24	8	7	0	0	0	0	1	0
527	24	16	10	3	3	0	0	0	0
528	24	8	6	1	1	0	0	0	0
554	24	16	10	4	1	0	0	1	0
	Sub total:	**605**	**420**	**62**	**51**	**43**	**13**	**8**	**8**
523	25	43	32	2	2	5	0	0	2
529	25	40	31	8	0	1	0	0	0
530	25	13	6	4	1	0	0	0	2
552	25	26	18	6	2	0	0	0	0
553	25	12	3	4	2	3	0	0	0
555	25	13	8	1	3	1	0	0	0
556	25	24	11	9	3	0	1	0	0
557	25	9	0	0	0	1	0	8	0
578	25	22	11	6	1	1	0	0	3
579	25	51	43	0	3	3	0	0	2
581	25	43	15	12	8	8	0	0	0
	Sub total:	**296**	**178**	**52**	**25**	**23**	**1**	**8**	**9**
532	26	13	9	3	1	0	0	0	0
533	26	61	13	21	12	10	1	0	4
546	26	50	24	16	5	3	1	1	0
547	26	20	7	3	0	8	0	0	2
548	26	12	10	2	0	0	0	0	0
549	26	33	20	9	2	2	0	0	0
550	26	18	11	6	1	0	0	0	0
559	26	10	7	2	1	0	0	0	0
560	26	23	9	14	0	0	0	0	0
561	26	24	21	1	0	0	0	1	1
562	26	16	8	5	2	0	0	0	1
574	26	33	19	13	1	0	0	0	0
	Sub total:	**313**	**158**	**95**	**25**	**23**	**2**	**2**	**8**
580	27	13	6	2	3	0	0	0	2
582	27	21	9	6	2	2	1	0	1
599	27	56	45	4	5	0	0	2	0
600	27	29	23	6	0	0	0	0	0
601	27	16	7	4	0	3	0	2	0
602	27	31	14	12	4	1	0	0	0
603	27	16	15	1	0	0	0	0	0
604	27	1	0	0	0	1	0	0	0
605	27	10	4	5	0	1	0	0	0

606	27	5	1	3	0	1	0	0	0
607	27	64	37	22	3	1	1	0	0
608	27	57	32	12	10	3	0	0	0
623	27	17	7	4	2	0	0	0	4
624	27	10	5	0	1	0	0	0	4
625	27	23	7	11	2	2	1	0	0
	Sub total:	**369**	**212**	**92**	**32**	**15**	**3**	**4**	**11**
558	28	34	9	13	3	1	2	0	6
575	28	15	4	5	1	5	0	0	0
576	28	12	5	2	2	1	0	2	0
577	28	32	10	10	2	4	1	4	1
583	28	36	17	14	3	0	2	0	0
584	28	34	18	13	2	1	0	0	0
585	28	25	5	16	2	2	0	0	0
586	28	5	4	1	0	0	0	0	0
598	28	35	19	9	7	0	0	0	0
609	28	5	0	0	0	2	3	0	0
621	28	26	20	5	1	0	0	0	0
622	28	6	3	3	0	0	0	0	0
	Sub total:	**265**	**114**	**91**	**23**	**16**	**8**	**6**	**7**
253	29	53	26	13	5	4	5	0	0
508	29	39	24	7	7	0	0	0	1
514	29	36	25	2	3	0	1	1	4
537	29	32	11	18	1	2	0	0	0
538	29	18	5	5	6	2	0	0	0
543	29	26	23	2	0	0	0	0	1
544	29	51	28	11	10	1	0	0	1
545	29	25	10	8	1	0	4	1	1
565	29	61	0	23	27	6	3	1	1
566	29	29	21	3	0	3	1	0	1
568	29	25	13	7	1	3	0	0	1
569	29	27	21	5	0	0	0	1	0
570	29	17	9	7	0	1	0	0	0
590	29	16	10	5	0	1	0	0	0
	Sub total:	**455**	**226**	**116**	**61**	**23**	**14**	**4**	**11**
271	30	37	13	14	4	2	4	0	0
272	30	16	12	4	0	0	0	0	0
564	30	23	1	5	7	8	0	0	2
571	30	36	14	14	3	3	2	0	0
572	30	8	1	2	2	0	0	0	3
573	30	39	21	12	3	1	2	0	0
587	30	44	24	17	2	0	0	0	1
588	30	29	3	7	6	7	2	4	0
591	30	16	9	6	0	1	0	0	0
592	30	8	1	2	4	1	0	0	0
593	30	29	21	6	1	1	0	0	0
594	30	48	7	17	4	8	10	2	0
595	30	61	27	14	0	20	0	0	0
596	30	43	9	25	1	4	1	0	3
597	30	16	7	5	3	0	0	1	0
612	30	46	24	12	8	2	0	0	0
	Sub total:	**499**	**194**	**162**	**48**	**58**	**21**	**7**	**9**

302	31	23	3	2	4	10	0	1	3
303	31	4	1	3	0	0	0	0	0
310	31	20	4	12	1	1	1	0	1
311	31	14	5	8	0	0	0	1	0
610	31	58	32	22	3	0	1	0	0
611	31	14	0	8	5	1	0	0	0
613	31	28	10	10	1	6	1	0	0
617	31	31	13	13	2	3	0	0	0
618	31	22	9	9	1	3	0	0	0
619	31	22	1	9	5	4	0	3	0
620	31	29	21	0	2	1	0	1	4
626	31	32	23	6	0	1	0	1	1
627	31	5	1	3	0	1	0	0	0
628	31	30	5	2	5	3	2	1	12
629	31	32	18	10	0	4	0	0	0
630	31	24	8	8	0	8	0	0	0
631	31	30	24	0	0	0	0	0	6
632	31	39	24	11	2	2	0	0	0
633	31	29	28	0	0	0	0	1	0
634	31	13	10	1	0	0	2	0	0
635	31	7	5	2	0	0	0	0	0
636	31	22	12	5	3	2	0	0	0
637	31	8	5	2	1	0	0	0	0
638	31	23	22	1	0	0	0	0	0
	Sub total:	**559**	**284**	**147**	**35**	**50**	**7**	**9**	**27**
288	32	36	11	8	0	1	4	0	12
289	32	24	4	12	5	1	2	0	0
290	32	25	10	8	0	2	5	0	0
291	32	5	1	2	0	1	0	1	0
299	32	8	3	3	0	1	1	0	0
300	32	17	2	8	2	3	1	0	1
301	32	23	6	9	4	1	2	0	1
304	32	15	2	8	4	0	0	1	0
305	32	11	5	6	0	0	0	0	0
306	32	15	4	8	0	1	0	2	0
308	32	26	17	6	0	3	0	0	0
309	32	23	7	13	0	3	0	0	0
312	32	24	5	14	4	1	0	0	0
614	32	21	16	5	0	0	0	0	0
615	32	2	1	1	0	0	0	0	0
616	32	20	16	4	0	0	0	0	0
	Sub total:	**295**	**110**	**115**	**19**	**18**	**15**	**4**	**14**
254	33	28	8	7	0	1	2	0	10
255	33	31	5	6	5	6	9	0	0
256	33	45	14	18	0	3	0	0	10
257	33	43	16	9	0	1	1	0	16
258	33	44	11	5	9	4	1	9	5
268	33	47	16	12	5	12	2	0	0
269	33	62	37	0	2	1	1	17	4
270	33	18	3	7	0	4	3	1	0
273	33	23	3	9	2	6	3	0	0
274	33	34	25	3	0	3	0	0	3

275	33	43	32	1	1	2	0	3	4
284	33	44	17	2	6	1	1	0	17
285	33	21	6	5	1	6	3	0	0
286	33	21	6	5	1	6	3	0	0
287	33	37	23	5	0	4	0	0	5
	Sub total:	**541**	**222**	**94**	**32**	**60**	**29**	**30**	**74**
222	34	0	0	0	0	0	0	0	0
237	34	49	23	6	3	8	1	8	0
238	34	44	14	4	2	18	3	0	3
239	34	34	13	6	0	0	2	0	13
250	34	49	10	26	3	3	7	0	0
251	34	33	14	8	0	2	4	1	4
252	34	49	7	14	4	9	13	0	2
539	34	39	32	0	0	0	0	1	6
540	34	13	0	0	1	7	1	4	0
541	34	26	11	0	4	4	0	7	0
542	34	44	42	0	1	0	0	1	0
567	34	17	11	3	0	3	0	0	0
	Sub total:	**397**	**177**	**67**	**18**	**54**	**31**	**22**	**28**
248	35	25	9	6	1	8	0	0	1
259	35	19	8	9	0	0	0	2	0
260	35	13	4	2	1	2	0	2	2
266	35	21	4	6	2	6	0	3	0
267	35	22	7	7	4	3	1	0	0
276	35	12	7	4	0	0	1	0	0
277	35	12	0	6	1	4	1	0	0
278	35	7	3	1	0	2	1	0	0
279	35	5	2	1	1	1	0	0	0
281	35	1	0	1	0	0	0	0	0
282	35	5	1	0	0	1	3	0	0
283	35	1	0	1	0	0	0	0	0
292	35	11	2	6	0	3	0	0	0
293	35	6	1	2	0	1	1	1	0
294	35	2	0	1	0	1	0	0	0
295	35	3	0	1	0	2	0	0	0
296	35	8	3	5	0	0	0	0	0
297	35	11	2	9	0	0	0	0	0
298	35	14	5	7	1	0	1	0	0
307	35	7	1	2	1	2	0	1	0
	Sub total:	**205**	**59**	**77**	**12**	**36**	**9**	**9**	**3**
214	36	41	23	1	0	0	1	2	14
215	36	46	15	14	1	0	1	3	12
216	36	43	14	6	1	2	2	4	14
225	36	32	18	5	3	0	0	5	0
226	36	3	1	2	0	0	0	0	0
229	36	14	4	3	0	0	0	1	6
230	36	27	6	16	1	0	0	0	4
231	36	17	7	0	0	5	1	1	3
232	36	49	32	2	6	4	1	1	3
233	36	34	7	9	3	4	0	11	0
242	36	21	11	3	2	1	0	1	3
243	36	18	12	5	1	0	0	0	0

244	36	20	7	0	5	8	0	1	0
245	36	7	2	4	0	1	0	0	0
246	36	6	2	1	0	3	0	0	0
247	36	10	5	0	2	1	1	1	0
262	36	9	6	1	0	2	0	0	0
263	36	2	2	0	0	0	0	0	0
264	36	10	1	0	1	7	0	1	0
265	36	36	12	10	7	4	3	0	0
280	36	31	12	5	7	4	1	1	1
	Sub total:	**476**	**199**	**88**	**40**	**46**	**11**	**33**	**60**
154	37	1	1	0	0	0	0	0	0
155	37	9	6	0	0	1	1	1	0
178	37	1	1	0	0	0	0	0	0
179	37	5	4	0	1	0	0	0	0
180	37	37	27	0	5	0	1	0	4
191	37	28	21	2	1	1	3	0	0
192	37	24	14	1	3	3	0	2	1
193	37	2	0	1	1	0	0	0	0
199	37	31	18	3	0	0	0	6	4
200	37	33	23	2	0	1	0	4	3
201	37	33	25	0	0	0	0	1	7
211	37	38	18	5	0	2	1	4	8
212	37	24	9	2	0	0	1	0	12
213	37	17	8	0	0	0	0	2	7
227	37	41	19	5	1	1	0	2	13
228	37	12	7	0	1	0	0	2	2
	Sub total:	**336**	**201**	**21**	**13**	**9**	**7**	**24**	**61**
202	38	5	5	0	0	0	0	0	0
111	38	8	6	2	0	0	0	0	0
112	38	6	4	1	0	1	0	0	0
141	38	28	12	12	0	0	0	4	0
142	38	6	5	0	0	1	0	0	0
143	38	11	5	0	6	0	0	0	0
144	38	3	0	0	0	3	0	0	0
145	38	20	18	0	0	2	0	0	0
149	38	31	19	4	2	0	0	0	6
150	38	43	25	5	5	1	0	7	0
151	38	42	24	4	10	3	0	0	1
152	38	12	5	2	3	1	0	1	0
153	38	11	8	0	0	2	1	0	0
181	38	36	24	4	4	1	0	0	3
182	38	27	15	1	3	4	0	4	0
183	38	35	25	5	1	0	2	1	1
188	38	74	22	24	7	1	13	7	0
189	38	35	25	2	3	2	0	0	3
190	38	44	39	0	0	2	1	0	2
203	38	24	19	0	1	1	1	1	1
	Sub total:	**501**	**305**	**66**	**45**	**25**	**18**	**25**	**17**
184	39	21	7	8	2	2	1	1	0
185	39	65	46	5	3	11	0	0	0
186	39	24	3	5	4	8	4	0	0
187	39	16	4	7	4	1	0	0	0

204	39	2	0	2	0	0	0	0	0
205	39	16	2	7	3	3	0	1	0
206	39	16	0	0	6	5	2	3	0
207	39	18	11	2	0	3	0	0	2
208	39	53	37	5	5	3	0	1	2
220	39	64	8	28	0	5	13	10	0
221	39	22	17	2	0	1	1	0	1
454	39	46	38	1	1	3	3	0	0
484	39	13	12	1	0	0	0	0	0
485	39	54	23	8	5	10	8	0	0
486	39	68	51	9	2	6	0	0	0
487	39	1	0	0	0	1	0	0	0
509	39	9	3	1	1	3	0	0	1
510	39	55	35	7	1	12	0	0	0
511	39	46	31	10	3	2	0	0	0
512	39	11	2	8	1	0	0	0	0
513	39	17	7	7	1	1	1	0	0
	Sub total:	**637**	**337**	**123**	**42**	**80**	**33**	**16**	**6**
209	40	13	11	1	1	0	0	0	0
210	40	29	29	0	0	0	0	0	0
217	40	14	8	0	1	0	0	2	3
218	40	33	13	7	0	3	2	0	8
219	40	35	19	10	2	4	0	0	0
223	40	46	14	9	4	3	0	4	12
224	40	33	18	1	0	1	0	10	3
235	40	16	6	3	0	3	1	2	1
236	40	29	12	6	0	1	0	0	10
240	40	2	1	0	1	0	0	0	0
241	40	33	25	1	1	3	2	1	0
249	40	12	4	0	1	3	1	3	0
	Sub total:	**295**	**160**	**38**	**11**	**21**	**6**	**22**	**37**
70	41	1	0	1	0	0	0	0	0
71	41	1	1	0	0	0	0	0	0
72	41	0	0	0	0	0	0	0	0
73	41	5	4	0	0	0	0	0	1
74	41	1	0	0	1	0	0	0	0
98	41	2	0	0	0	0	0	0	2
99	41	0	0	0	0	0	0	0	0
100	41	4	3	0	0	0	1	0	0
101	41	19	13	0	0	1	1	4	0
113	41	1	0	0	0	0	0	0	1
114	41	0	0	0	0	0	0	0	0
115	41	1	1	0	0	0	0	0	0
116	41	0	0	0	0	0	0	0	0
117	41	1	0	0	0	0	0	0	1
137	41	0	0	0	0	0	0	0	0
138	41	0	0	0	0	0	0	0	0
139	41	3	2	1	0	0	0	0	0
140	41	3	2	0	0	0	0	0	1
156	41	4	1	2	0	0	0	0	1
	Sub total:	**46**	**27**	**4**	**1**	**1**	**2**	**4**	**7**
13	42	2	1	0	0	0	0	0	1

14	42	0	0	0	0	0	0	0	0
15	42	0	0	0	0	0	0	0	0
16	42	0	0	0	0	0	0	0	0
31	42	3	0	3	0	0	0	0	0
33	42	0	0	0	0	0	0	0	0
34	42	0	0	0	0	0	0	0	0
35	42	0	0	0	0	0	0	0	0
54	42	0	0	0	0	0	0	0	0
55	42	0	0	0	0	0	0	0	0
56	42	1	1	0	0	0	0	0	0
57	42	0	0	0	0	0	0	0	0
893	42	0	0	0	0	0	0	0	0
914	42	4	3	0	0	0	0	0	1
929	42	2	1	0	1	0	0	0	0
951	42	0	0	0	0	0	0	0	0
952	42	0	0	0	0	0	0	0	0
965	42	10	7	0	0	0	1	0	2
966	42	9	4	5	0	0	0	0	0
967	42	5	1	0	0	0	0	0	4
	Sub total:	**36**	**18**	**8**	**1**	**0**	**1**	**0**	**8**
684	43	1	0	1	0	0	0	0	0
693	43	14	7	5	2	0	0	0	0
694	43	4	2	2	0	0	0	0	0
712	43	0	0	0	0	0	0	0	0
713	43	0	0	0	0	0	0	0	0
714	43	5	2	3	0	0	0	0	0
722	43	0	0	0	0	0	0	0	0
723	43	0	0	0	0	0	0	0	0
741	43	4	4	0	0	0	0	0	0
742	43	3	3	0	0	0	0	0	0
743	43	1	1	0	0	0	0	0	0
744	43	5	0	2	0	0	0	0	3
745	43	12	3	7	2	0	0	0	0
746	43	35	14	19	2	0	0	0	0
747	43	13	4	3	3	2	1	0	0
749	43	13	1	8	3	0	0	0	1
750	43	8	2	3	3	0	0	0	0
751	43	9	0	5	4	0	0	0	0
752	43	0	0	0	0	0	0	0	0
753	43	0	0	0	0	0	0	0	0
754	43	0	0	0	0	0	0	0	0
776	43	0	0	0	0	0	0	0	0
777	43	7	0	5	2	0	0	0	0
778	43	30	16	0	2	2	2	3	5
781	43	0	0	0	0	0	0	0	0
782	43	9	7	2	0	0	0	0	0
810	43	4	2	2	0	0	0	0	0
818	43	12	4	7	0	1	0	0	0
	Sub total:	**189**	**72**	**74**	**23**	**5**	**3**	**3**	**9**
649	44	0	0	0	0	0	0	0	0
650	44	0	0	0	0	0	0	0	0
661	44	2	0	0	2	0	0	0	0

662	44	23	15	3	1	1	0	0	3
663	44	10	3	6	1	0	0	0	0
664	44	2	2	0	0	0	0	0	0
665	44	10	3	5	1	0	1	0	0
666	44	2	0	2	0	0	0	0	0
667	44	7	2	4	1	0	0	0	0
685	44	11	2	8	1	0	0	0	0
686	44	3	2	1	0	0	0	0	0
687	44	1	0	0	1	0	0	0	0
688	44	13	10	1	0	1	1	0	0
689	44	0	0	0	0	0	0	0	0
690	44	0	0	0	0	0	0	0	0
691	44	27	12	10	4	0	0	0	1
692	44	15	2	11	1	0	0	0	1
715	44	13	6	4	3	0	0	0	0
716	44	50	19	22	8	0	0	0	1
717	44	0	0	0	0	0	0	0	0
718	44	0	0	0	0	0	0	0	0
719	44	0	0	0	0	0	0	0	0
720	44	21	8	12	1	0	0	0	0
721	44	3	2	1	0	0	0	0	0
748	44	0	0	0	0	0	0	0	0
	Sub total:	**213**	**88**	**90**	**25**	**2**	**2**	**0**	**6**
977	45	9	4	3	0	0	0	2	0
978	45	0	0	0	0	0	0	0	0
979	45	1	1	0	0	0	0	0	0
980	45	0	0	0	0	0	0	0	0
981	45	4	2	0	0	0	0	2	0
982	45	5	5	0	0	0	0	0	0
984	45	15	12	0	1	1	0	0	1
985	45	6	5	0	0	0	0	1	0
986	45	0	0	0	0	0	0	0	0
987	45	49	25	2	0	0	0	12	10
988	45	26	16	0	0	0	0	1	9
989	45	17	9	1	0	0	0	7	0
990	45	1	1	0	0	0	0	0	0
991	45	5	2	2	0	0	0	0	1
998	45	1	0	0	0	0	0	0	1
999	45	9	3	1	0	1	0	0	4
1000	45	8	8	0	0	0	0	0	0
1001	45	6	6	0	0	0	0	0	0
1002	45	28	12	5	4	7	0	0	0
1003	45	33	19	3	0	1	0	5	5
1014	45	60	49	6	0	0	1	3	1
1015	45	0	0	0	0	0	0	0	0
1067	45	0	0	0	0	0	0	0	0
1097	45	0	0	0	0	0	0	0	0
1098	45	0	0	0	0	0	0	0	0
1099	45	1	1	0	0	0	0	0	0
	Sub total:	**284**	**180**	**23**	**5**	**10**	**1**	**33**	**32**
75	46	0	0	0	0	0	0	0	0
76	46	1	1	0	0	0	0	0	0

77	46	0	0	0	0	0	0	0	0
78	46	0	0	0	0	0	0	0	0
93	46	0	0	0	0	0	0	0	0
94	46	0	0	0	0	0	0	0	0
95	46	0	0	0	0	0	0	0	0
96	46	0	0	0	0	0	0	0	0
118	46	0	0	0	0	0	0	0	0
119	46	1	1	0	0	0	0	0	0
120	46	0	0	0	0	0	0	0	0
121	46	0	0	0	0	0	0	0	0
135	46	2	2	0	0	0	0	0	0
136	46	0	0	0	0	0	0	0	0
157	46	2	2	0	0	0	0	0	0
158	46	0	0	0	0	0	0	0	0
159	46	0	0	0	0	0	0	0	0
160	46	0	0	0	0	0	0	0	0
161	46	0	0	0	0	0	0	0	0
172	46	0	0	0	0	0	0	0	0
173	46	1	1	0	0	0	0	0	0
174	46	0	0	0	0	0	0	0	0
175	46	0	0	0	0	0	0	0	0
176	46	0	0	0	0	0	0	0	0
177	46	0	0	0	0	0	0	0	0
194	46	3	0	0	0	0	0	1	2
195	46	0	0	0	0	0	0	0	0
197	46	1	0	0	0	0	0	0	1
198	46	0	0	0	0	0	0	0	0
	Sub total:	**11**	**7**	**0**	**0**	**0**	**0**	**1**	**3**
51	47	0	0	0	0	0	0	0	0
52	47	2	0	2	0	0	0	0	0
79	47	0	0	0	0	0	0	0	0
80	47	1	0	1	0	0	0	0	0
81	47	1	0	1	0	0	0	0	0
82	47	0	0	0	0	0	0	0	0
83	47	0	0	0	0	0	0	0	0
90	47	0	0	0	0	0	0	0	0
91	47	1	0	1	0	0	0	0	0
92	47	0	0	0	0	0	0	0	0
97	47	0	0	0	0	0	0	0	0
122	47	0	0	0	0	0	0	0	0
123	47	0	0	0	0	0	0	0	0
124	47	0	0	0	0	0	0	0	0
128	47	0	0	0	0	0	0	0	0
129	47	0	0	0	0	0	0	0	0
130	47	0	0	0	0	0	0	0	0
131	47	0	0	0	0	0	0	0	0
132	47	0	0	0	0	0	0	0	0
162	47	1	1	0	0	0	0	0	0
163	47	0	0	0	0	0	0	0	0
164	47	0	0	0	0	0	0	0	0
165	47	0	0	0	0	0	0	0	0
166	47	0	0	0	0	0	0	0	0

168	47	0	0	0	0	0	0	0	0
169	47	0	0	0	0	0	0	0	0
170	47	0	0	0	0	0	0	0	0
171	47	0	0	0	0	0	0	0	0
196	47	0	0	0	0	0	0	0	0
	Sub total:	**6**	**1**	**5**	**0**	**0**	**0**	**0**	**0**
1	48	0	0	0	0	0	0	0	0
2	48	1	1	0	0	0	0	0	0
3	48	0	0	0	0	0	0	0	0
4	48	0	0	0	0	0	0	0	0
5	48	0	0	0	0	0	0	0	0
6	48	8	7	1	0	0	0	0	0
7	48	0	0	0	0	0	0	0	0
42	48	0	0	0	0	0	0	0	0
43	48	0	0	0	0	0	0	0	0
44	48	0	0	0	0	0	0	0	0
45	48	0	0	0	0	0	0	0	0
46	48	0	0	0	0	0	0	0	0
47	48	0	0	0	0	0	0	0	0
48	48	0	0	0	0	0	0	0	0
49	48	0	0	0	0	0	0	0	0
50	48	0	0	0	0	0	0	0	0
84	48	0	0	0	0	0	0	0	0
85	48	0	0	0	0	0	0	0	0
86	48	0	0	0	0	0	0	0	0
87	48	0	0	0	0	0	0	0	0
88	48	0	0	0	0	0	0	0	0
89	48	0	0	0	0	0	0	0	0
125	48	1	1	0	0	0	0	0	0
126	48	0	0	0	0	0	0	0	0
127	48	0	0	0	0	0	0	0	0
167	48	0	0	0	0	0	0	0	0
976	48	0	0	0	0	0	0	0	0
	Sub total:	**10**	**9**	**1**	**0**	**0**	**0**	**0**	**0**
789	49	0	0	0	0	0	0	0	0
790	49	0	0	0	0	0	0	0	0
791	49	0	0	0	0	0	0	0	0
796	49	0	0	0	0	0	0	0	0
797	49	0	0	0	0	0	0	0	0
798	49	0	0	0	0	0	0	0	0
799	49	0	0	0	0	0	0	0	0
800	49	0	0	0	0	0	0	0	0
824	49	0	0	0	0	0	0	0	0
828	49	0	0	0	0	0	0	0	0
829	49	0	0	0	0	0	0	0	0
830	49	0	0	0	0	0	0	0	0
864	49	0	0	0	0	0	0	0	0
865	49	0	0	0	0	0	0	0	0
866	49	0	0	0	0	0	0	0	0
867	49	0	0	0	0	0	0	0	0
901	49	0	0	0	0	0	0	0	0
902	49	0	0	0	0	0	0	0	0

903	49	0	0	0	0	0	0	0	0
904	49	0	0	0	0	0	0	0	0
905	49	0	0	0	0	0	0	0	0
906	49	0	0	0	0	0	0	0	0
907	49	0	0	0	0	0	0	0	0
937	49	0	0	0	0	0	0	0	0
938	49	0	0	0	0	0	0	0	0
939	49	1	1	0	0	0	0	0	0
940	49	0	0	0	0	0	0	0	0
941	49	0	0	0	0	0	0	0	0
942	49	0	0	0	0	0	0	0	0
943	49	0	0	0	0	0	0	0	0
973	49	0	0	0	0	0	0	0	0
974	49	0	0	0	0	0	0	0	0
975	49	0	0	0	0	0	0	0	0
	Sub total:	**1**	**1**	**0**	**0**	**0**	**0**	**0**	**0**
8	50B	0	0	0	0	0	0	0	0
9	50B	0	0	0	0	0	0	0	0
10	50B	0	0	0	0	0	0	0	0
11	50B	0	0	0	0	0	0	0	0
12	50A	0	0	0	0	0	0	0	0
36	50A	0	0	0	0	0	0	0	0
37	50A	2	2	0	0	0	0	0	0
38	50B	0	0	0	0	0	0	0	0
39	50B	0	0	0	0	0	0	0	0
40	50B	0	0	0	0	0	0	0	0
41	50B	0	0	0	0	0	0	0	0
935	50B	0	0	0	0	0	0	0	0
944	50B	0	0	0	0	0	0	0	0
945	50B	0	0	0	0	0	0	0	0
946	50B	0	0	0	0	0	0	0	0
947	50B	0	0	0	0	0	0	0	0
968	50A	1	0	0	0	0	0	0	1
969	50B	0	0	0	0	0	0	0	0
970	50B	0	0	0	0	0	0	0	0
971	50B	0	0	0	0	0	0	0	0
972	50B	0	0	0	0	0	0	0	0
	Sub total:	**3**	**2**	**0**	**0**	**0**	**0**	**0**	**1**
831	51B	0	0	0	0	0	0	0	0
832	51B	0	0	0	0	0	0	0	0
833	51B	0	0	0	0	0	0	0	0
834	51B	0	0	0	0	0	0	0	0
859	51A	0	0	0	0	0	0	0	0
860	51B	0	0	0	0	0	0	0	0
861	51B	0	0	0	0	0	0	0	0
862	51B	0	0	0	0	0	0	0	0
863	51B	0	0	0	0	0	0	0	0
868	51B	0	0	0	0	0	0	0	0
869	51B	0	0	0	0	0	0	0	0
870	51B	0	0	0	0	0	0	0	0
871	51A	0	0	0	0	0	0	0	0
897	51B	0	0	0	0	0	0	0	0

898	51B	0	0	0	0	0	0	0	0
899	51B	0	0	0	0	0	0	0	0
900	51B	0	0	0	0	0	0	0	0
908	51B	0	0	0	0	0	0	0	0
909	51B	0	0	0	0	0	0	0	0
910	51A	0	0	0	0	0	0	0	0
911	51A	0	0	0	0	0	0	0	0
932	51A	2	0	0	1	1	0	0	0
933	51A	0	0	0	0	0	0	0	0
934	51A	0	0	0	0	0	0	0	0
936	51B	0	0	0	0	0	0	0	0
948	51A	0	0	0	0	0	0	0	0
949	51A	0	0	0	0	0	0	0	0
950	51A	0	0	0	0	0	0	0	0
	Sub total:	**2**	**0**	**0**	**1**	**1**	**0**	**0**	**0**
775	52	4	3	1	0	0	0	0	0
783	52	8	8	0	0	0	0	0	0
806	52	0	0	0	0	0	0	0	0
807	52	0	0	0	0	0	0	0	0
808	52	0	0	0	0	0	0	0	0
809	52	0	0	0	0	0	0	0	0
819	52	0	0	0	0	0	0	0	0
820	52	0	0	0	0	0	0	0	0
821	52	0	0	0	0	0	0	0	0
822	52	0	0	0	0	0	0	0	0
835	52	0	0	0	0	0	0	0	0
836	52	2	1	0	0	0	0	1	0
837	52	0	0	0	0	0	0	0	0
838	52	0	0	0	0	0	0	0	0
839	52	0	0	0	0	0	0	0	0
840	52	0	0	0	0	0	0	0	0
854	52	1	1	0	0	0	0	0	0
855	52	2	2	0	0	0	0	0	0
856	52	2	2	0	0	0	0	0	0
857	52	0	0	0	0	0	0	0	0
858	52	0	0	0	0	0	0	0	0
872	52	0	0	0	0	0	0	0	0
873	52	0	0	0	0	0	0	0	0
874	52	0	0	0	0	0	0	0	0
875	52	8	7	1	0	0	0	0	0
876	52	0	0	0	0	0	0	0	0
894	52	0	0	0	0	0	0	0	0
895	52	0	0	0	0	0	0	0	0
896	52	0	0	0	0	0	0	0	0
912	52	1	1	0	0	0	0	0	0
913	52	1	1	0	0	0	0	0	0
930	52	0	0	0	0	0	0	0	0
931	52	8	8	0	0	0	0	0	0
	Sub total:	**37**	**34**	**2**	**0**	**0**	**0**	**1**	**0**
53	53	1	0	0	0	0	0	0	1
133	53	1	0	1	0	0	0	0	0
134	53	0	0	0	0	0	0	0	0

710	53	2	0	0	0	0	0	0	2
711	53	0	0	0	0	0	0	0	0
724	53	0	0	0	0	0	0	0	0
737	53	0	0	0	0	0	0	0	0
738	53	0	0	0	0	0	0	0	0
739	53	1	0	0	0	0	1	0	0
740	53	0	0	0	0	0	0	0	0
755	53	7	0	1	1	3	1	1	0
756	53	6	0	2	3	1	0	0	0
757	53	0	0	0	0	0	0	0	0
758	53	0	0	0	0	0	0	0	0
771	53	4	3	1	0	0	0	0	0
772	53	0	0	0	0	0	0	0	0
773	53	1	1	0	0	0	0	0	0
774	53	0	0	0	0	0	0	0	0
784	53	0	0	0	0	0	0	0	0
785	53	0	0	0	0	0	0	0	0
786	53	0	0	0	0	0	0	0	0
787	53	0	0	0	0	0	0	0	0
801	53	0	0	0	0	0	0	0	0
802	53	0	0	0	0	0	0	0	0
803	53	0	0	0	0	0	0	0	0
804	53	0	0	0	0	0	0	0	0
805	53	0	0	0	0	0	0	0	0
823	53	0	0	0	0	0	0	0	0
	Sub total:	**23**	**4**	**5**	**4**	**4**	**2**	**1**	**3**
639	54	2	1	1	0	0	0	0	0
640	54	0	0	0	0	0	0	0	0
641	54	2	0	1	1	0	0	0	0
642	54	0	0	0	0	0	0	0	0
643	54	0	0	0	0	0	0	0	0
644	54	0	0	0	0	0	0	0	0
645	54	0	0	0	0	0	0	0	0
646	54	0	0	0	0	0	0	0	0
647	54	2	2	0	0	0	0	0	0
648	54	0	0	0	0	0	0	0	0
651	54	0	0	0	0	0	0	0	0
652	54	0	0	0	0	0	0	0	0
653	54	38	33	2	1	2	0	0	0
654	54	0	0	0	0	0	0	0	0
657	54	0	0	0	0	0	0	0	0
658	54	0	0	0	0	0	0	0	0
659	54	3	0	3	0	0	0	0	0
660	54	0	0	0	0	0	0	0	0
668	54	0	0	0	0	0	0	0	0
669	54	0	0	0	0	0	0	0	0
670	54	0	0	0	0	0	0	0	0
671	54	0	0	0	0	0	0	0	0
679	54	2	2	0	0	0	0	0	0
680	54	0	0	0	0	0	0	0	0
681	54	0	0	0	0	0	0	0	0
682	54	3	0	3	0	0	0	0	0

683	54	1	1	0	0	0	0	0	0
695	54	0	0	0	0	0	0	0	0
696	54	0	0	0	0	0	0	0	0
697	54	0	0	0	0	0	0	0	0
698	54	0	0	0	0	0	0	0	0
699	54	0	0	0	0	0	0	0	0
706	54	0	0	0	0	0	0	0	0
707	54	0	0	0	0	0	0	0	0
708	54	0	0	0	0	0	0	0	0
709	54	6	3	1	0	0	0	0	2
725	54	0	0	0	0	0	0	0	0
726	54	0	0	0	0	0	0	0	0
727	54	0	0	0	0	0	0	0	0
	Sub total:	**59**	**42**	**11**	**2**	**2**	**0**	**0**	**2**
655	55	0	0	0	0	0	0	0	0
656	55	0	0	0	0	0	0	0	0
672	55	0	0	0	0	0	0	0	0
673	55	0	0	0	0	0	0	0	0
674	55	0	0	0	0	0	0	0	0
675	55	0	0	0	0	0	0	0	0
676	55	0	0	0	0	0	0	0	0
677	55	0	0	0	0	0	0	0	0
678	55	0	0	0	0	0	0	0	0
700	55	0	0	0	0	0	0	0	0
701	55	0	0	0	0	0	0	0	0
702	55	0	0	0	0	0	0	0	0
703	55	0	0	0	0	0	0	0	0
705	55	0	0	0	0	0	0	0	0
728	55	0	0	0	0	0	0	0	0
729	55	0	0	0	0	0	0	0	0
730	55	0	0	0	0	0	0	0	0
731	55	0	0	0	0	0	0	0	0
732	55	0	0	0	0	0	0	0	0
733	55	0	0	0	0	0	0	0	0
734	55	0	0	0	0	0	0	0	0
735	55	0	0	0	0	0	0	0	0
736	55	0	0	0	0	0	0	0	0
759	55	0	0	0	0	0	0	0	0
760	55	0	0	0	0	0	0	0	0
761	55	0	0	0	0	0	0	0	0
762	55	0	0	0	0	0	0	0	0
763	55	0	0	0	0	0	0	0	0
764	55	0	0	0	0	0	0	0	0
765	55	0	0	0	0	0	0	0	0
766	55	0	0	0	0	0	0	0	0
767	55	0	0	0	0	0	0	0	0
768	55	0	0	0	0	0	0	0	0
769	55	0	0	0	0	0	0	0	0
770	55	0	0	0	0	0	0	0	0
788	55	4	4	0	0	0	0	0	0
792	55	0	0	0	0	0	0	0	0
793	55	0	0	0	0	0	0	0	0

Appendix 32: Levels of different nutrients in soil samples collected, at two depths (D1= 0-10 cm; D2 = 10-30 cm) from each of 36 sample plots, nine from each of none, slight , moderate and severe level of top dying of sundri in the Sundarbans.

Sample No.	Severity Class	Compt (plot)	Soil depth	EC	Na	Ca	Mg	K	Total N	P	Mn	Zn
				dS/m	(meq/100g)				%	µg/gm	µg/gm	µg/gm
1	Moderate	33(1)	D2	10.01	1.06	12.50	7.75	1.40	0.084	11.85	35.18	0.70
2	Moderate	33(1)	D1	11.00	1.09	15.50	7.50	1.30	0.040	10.32	35.74	0.92
3	Moderate	33(2)	D1	6.38	1.03	11.80	7.50	1.30	0.078	11.11	34.52	0.66
4	Moderate	33(2)	D2	5.92	0.98	10.75	7.75	1.40	0.078	9.99	36.38	0.68
5	Severe	33(3)	D1	9.06	1.14	13.00	7.00	1.10	0.079	20.67	30.88	0.54
6	Severe	33(3)	D2	6.02	0.90	9.50	7.50	1.50	0.079	8.98	20.82	0.56
7	Slight	20(1)	D1	12.42	1.12	4.75	8.00	1.40	0.079	14.93	33.92	2.50
8	Slight	20(1)	D2	14.57	2.04	4.50	7.25	1.50	0.072	20.24	27.10	1.76
9	None	20(2)	D1	10.75	1.50	4.50	7.50	1.40	0.070	8.30	30.34	1.32
10	None	20(3)	D1	11.76	1.34	9.50	8.00	1.40	0.090	6.19	35.28	1.10
11	None	20(3)	D2	17.74	2.02	4.50	8.25	1.70	0.071	7.74	30.20	1.36
12	Severe	22(1)	D1	7.05	0.80	20.75	8.00	0.60	0.055	7.86	26.30	1.54
13	Severe	22(1)	D2	7.53	1.02	18.25	6.00	1.00	0.067	8.54	23.76	0.82
14	None	22(2)	D1	9.88	1.01	20.50	6.75	0.80	0.067	10.92	31.76	0.78
15	None	22(2)	D2	10.78	0.97	19.75	7.00	1.00	0.069	7.99	33.76	0.70
16	Moderate	22(3)	D1	7.60	1.05	20.50	7.00	1.00	0.087	13.27	34.88	0.66
17	Moderate	22(3)	D2	8.39	0.94	16.75	7.50	1.20	0.082	11.38	33.16	0.62
18	None	2(1)	D1	7.58	1.14	8.50	7.25	0.60	0.097	8.67	26.16	1.10
19	None	2(1)	D2	5.31	0.82	7.50	7.00	0.80	0.078	3.20	23.78	1.00
20	None	2(2)	D1	5.58	1.09	7.50	6.25	0.60	0.080	9.19	19.62	0.62
21	None	2(2)	D2	9.10	0.74	7.50	6.50	0.70	0.061	3.96	23.80	0.66
22	None	2(3)	D1	6.39	0.94	7.25	6.50	0.60	0.078	6.94	20.76	0.78
23	None	2(3)	D2	13.61	0.92	7.50	6.50	0.80	0.053	9.80	27.54	0.76
24	Slight	11(1)	D1	5.68	1.58	5.25	8.25	1.50	0.087	7.97	37.66	1.70
25	Slight	11(1)	D2	5.50	1.70	4.25	9.75	1.80	0.094	8.06	37.44	2.88
26	Slight	11(2)	D1	4.18	1.01	4.75	7.50	1.30	0.126	6.36	37.84	0.90
27	Slight	11(2)	D2	4.04	1.12	4.25	8.25	1.60	0.125	17.03	36.62	1.10
28	Slight	11(3)	D1	4.97	0.88	4.25	7.00	1.20	0.110	7.51	25.64	0.82
29	Slight	11(3)	D2	4.59	0.91	3.50	6.75	1.30	0.102	6.12	31.28	0.84
30	Moderate	26(1)	D1	9.26	1.11	20.00	7.25	1.00	0.100	17.62	34.46	0.74
31	Moderate	26(1)	D2	11.91	1.14	20.00	7.50	1.10	0.111	10.34	37.96	0.68
32	Slight	26(2)	D1	8.09	1.00	20.50	6.25	0.90	0.094	12.63	29.80	0.52
33	Slight	26(2)	D2	10.62	0.90	19.25	6.50	1.10	0.099	12.44	30.08	0.52
34	Moderate	26(3)	D1	10.40	1.38	19.00	6.50	1.00	0.084	10.43	26.02	0.58
35	Moderate	26(3)	D2	16.09	1.70	20.50	6.00	0.70	0.071	10.72	28.60	0.62
36	Severe	37(1)	D1	5.83	1.76	5.25	11.0	2.10	0.134	18.26	22.96	1.24
37	Severe	37(1)	D2	8.67	1.98	6.00	11.3	2.30	0.148	11.32	29.90	0.98
38	Severe	37(2)	D1	12.34	2.14	7.75	12.3	2.10	0.161	13.94	29.04	1.02
39	Severe	37(2)	D2	13.51	1.52	10.50	11.8	2.00	0.166	17.91	40.52	1.22
40	Severe	37(3)	D1	8.45	1.82	6.25	11.0	2.00	0.157	16.75	24.20	0.94
41	Severe	37(3)	D2	12.95	2.10	7.00	11.3	2.30	0.163	16.68	29.02	0.94
42	Moderate	40(1)	D1	12.46	1.50	14.75	5.75	1.10	0.100	14.62	26.20	0.90
43	Moderate	40(1)	D2	15.46	1.50	14.00	6.00	1.20	0.103	15.10	22.16	0.78
44	Slight	40(2)	D1	9.85	1.82	7.00	8.25	1.30	0.128	17.35	32.50	0.90
45	Slight	40(2)	D2	14.57	1.54	7.25	9.00	1.60	0.122	18.43	24.92	1.06
46	None	40(3)	D1	13.31	1.86	5.50	10.8	2.00	0.152	17.28	78.82	1.18
47	None	40(3)	D2	24.60	2.16	6.50	11.3	2.00	0.158	20.47	65.02	1.20
48	None	36/1(1)	D1	12.84	2.00	5.75	9.00	1.80	0.130	22.27	42.62	1.06
49	None	36/1(1)	D2	16.73	1.96	8.90	9.15	2.00	0.129	13.72	49.66	1.00
50	Moderate	36/1(2)	D1	7.31	2.20	2.50	9.20	2.00	0.136	12.12	53.02	1.12

51	Moderate	36/1(2)	D2	19.00	2.14	5.00	8.20	2.10	0.109	10.79	31.24	0.84
52	Slight	36/1(3)	D1	14.28	2.22	3.50	9.50	1.80	0.131	12.76	40.98	1.16
53	Slight	36/1(3)	D2	11.60	1.74	4.75	8.30	2.00	0.115	10.42	34.70	1.20
54	Severe	36/2(1)	D1	12.04	2.06	6.25	8.75	1.50	0.120	9.97	29.70	0.76
55	Severe	36/2(1)	D2	17.87	1.58	5.10	9.00	2.00	0.110	17.37	28.16	0.84
56	Severe	36/2(2)	D1	12.42	2.02	6.75	6.00	1.70	0.097	9.79	24.70	0.66
57	Severe	36/2(2)	D2	5.68	1.78	6.00	8.50	1.30	0.114	10.97	29.24	0.76
58	Severe	36/2(3)	D1	12.91	1.86	4.50	6.50	1.60	0.130	12.04	24.30	0.88
59	Severe	36/2(3)	D2	13.22	1.58	5.75	9.75	1.70	0.124	12.17	29.56	0.90
60	Moderate	19/1(1)	D1	13.19	1.54	6.50	7.30	1.20	0.087	10.17	21.70	0.84
61	Moderate	19/1(1)	D2	15.33	1.56	4.80	7.50	1.50	0.097	8.52	19.90	0.78
62	Moderate	19/1(2)	D1	12.22	1.80	5.00	7.90	1.70	0.114	12.36	24.16	0.66
63	Moderate	19/1(2)	D2	8.24	1.76	5.00	8.90	1.70	0.117	10.53	30.78	0.82
64	Slight	19/1(3)	D1	3.83	2.00	4.50	9.85	1.90	0.133	10.59	49.26	0.82
65	Slight	19/1(3)	D2	7.14	1.88	4.25	9.25	2.10	0.091	9.91	28.34	0.76
66	None	19/2(1)	D1	13.85	2.14	5.25	9.00	1.80	0.089	11.94	43.16	1.56
67	None	19/2(1)	D2	15.21	1.88	5.00	9.60	2.10	0.088	12.58	46.32	1.72
68	Slight	19/2(2)	D1	12.93	2.08	24.00	8.10	1.50	0.075	15.58	27.42	1.32
69	Slight	19/2(2)	D2	14.31	1.86	5.75	8.50	1.40	0.071	11.37	22.82	1.04
70	None	19/2(3)	D1	14.10	1.92	6.00	10.0	2.00	0.102	14.23	48.06	1.14
71	None	19/2(3)	D2	16.47	1.92	7.00	9.60	2.10	0.100	14.62	46.54	1.88

Notes: Compt (Plot) = Compartment No. (Sample Plot No.); EC = Electrical conductivity; Na = Sodium; Ca = Calcium; Mg = Magnesium; K = Potassium; N = Total available Nitrogen; P = Phosphorus; Mn = Manganese; Zn = Zinc ; dS/m = deci Siemen per meter; meq/100g = milliequivalent per 100 gm of soil; % = percentage; µg/gm = micro gram per gram of soil

Appendix 33: Levels of different nutrients in soil samples collected in January 2002 at two depths (D1= 0-10 cm; D2 = 110-30 cm) from each of 36 sample plots, nine from each of 1, 2 , 3 and 4 levels of top dying of sundri in the Sundarbans.

Sl. No	Top dying severity class	EC	Na	Ca	Mg	K	Total N	P	Mn	Zn	Clay	Silt	Sand
		dS/m	(meq/100g)				(%)	(µg/gm)			(%)	(%)	(%)
1	3	12.43	9.57	10.50	9.00	1.08	0.098	27.30	31.70	0.78	33.30	64.04	2.66
2	3	11.29	10.12	18.00	8.00	0.96	0.133	13.99	39.46	1.18	30.74	66.60	2.66
3	3	9.38	9.57	20.00	7.00	0.85	0.076	13.64	43.18	0.76	28.18	66.62	5.20
4	3	10.10	12.43	10.50	8.00	1.05	0.091	11.77	34.12	0.96	32.02	62.76	5.22
17	3	10.19	11.33	24.00	7.00	0.68	0.098	19.71	49.40	1.02	28.18	69.16	2.66
18	3	10.80	14.25	18.00	7.00	0.84	0.095	9.68	39.40	0.88	30.74	66.60	2.66
31	3	11.42	11.70	24.00	7.00	0.64	0.095	13.82	55.40	1.70	23.06	74.30	2.64
32	3	10.54	13.35	20.00	7.00	0.73	0.099	12.45	38.66	1.30	28.18	70.46	1.36
35	3	19.13	17.55	22.50	6.50	0.49	0.094	9.38	34.22	2.18	15.37	79.43	5.20
36	3	16.85	17.55	20.50	6.00	0.51	0.062	7.32	28.70	1.02	17.93	79.43	2.64
43	3	17.87	19.95	14.00	7.00	0.86	0.081	11.03	34.40	2.78	20.50	74.30	5.20
44	3	16.35	20.33	10.00	7.00	0.96	0.078	25.29	23.74	3.02	23.06	74.30	2.64
51	3	17.74	25.08	9.00	12.00	1.18	0.098	11.83	54.00	1.82	34.59	60.21	5.20
52	3	16.73	22.23	4.00	11.50	1.32	0.098	9.62	40.40	1.36	38.42	56.35	5.23
61	3	17.99	22.08	4.00	9.50	1.23	0.088	8.60	29.40	2.62	28.18	66.60	5.23
62	3	15.46	21.39	3.00	8.50	1.20	0.073	15.39	24.40	2.46	28.18	66.62	5.20
63	3	17.99	21.16	8.50	11.00	1.32	0.111	14.72	61.50	2.10	30.73	61.46	7.81
64	3	15.84	22.08	5.50	9.50	1.29	0.097	16.36	39.40	1.52	30.73	64.04	5.23
9	1	16.85	12.76	5.50	9.00	1.05	0.078	20.66	38.10	1.58	25.61	69.16	5.23
10	1	16.73	18.62	2.50	8.50	1.11	0.091	7.04	34.74	1.20	28.18	66.60	5.22
11	1	18.25	16.50	4.00	11.50	1.20	0.119	5.67	50.00	2.30	34.57	61.46	3.97
12	1	15.59	17.40	4.00	10.50	1.29	0.112	4.20	52.00	1.20	35.86	58.91	5.23
19	1	10.52	9.68	9.50	7.50	0.53	0.126	19.97	32.60	1.04	25.61	69.16	5.23
20	1	10.61	12.32	8.50	8.00	0.60	0.131	5.10	35.58	1.02	33.30	64.04	2.66
21	1	14.26	13.80	7.00	8.50	0.53	0.081	3.87	22.10	0.88	25.62	71.74	2.64
22	1	12.81	14.55	5.00	7.50	0.59	0.085	9.77	21.72	0.82	28.18	70.46	1.36

23	1	16.60	11.44	7.00	8.00	0.56	0.096	4.27	23.01	1.00	29.46	67.90	2.64
24	1	15.71	17.10	7.50	7.50	0.58	0.076	4.17	21.90	0.90	24.34	73.00	2.66
47	1	15.46	18.43	10.00	13.00	1.32	0.074	16.92	73.60	1.54	33.29	62.74	3.97
48	1	13.56	20.14	7.50	20.00	1.50	0.075	15.53	88.40	1.76	38.41	55.06	6.53
49	1	17.36	18.24	10.00	13.50	1.26	0.09	11.81	47.80	2.00	35.85	58.90	5.25
50	1	16.63	20.14	6.00	14.50	1.30	0.087	8.74	40.00	2.28	35.85	58.90	5.25
67	1	17.87	25.30	6.00	14.50	1.62	0.110	7.20	48.60	1.20	40.97	53.78	5.25
68	1	7.60	26.45	2.50	10.50	1.62	0.110	29.24	45.60	1.06	40.97	56.34	2.69
71	1	19.39	31.05	6.00	22.50	1.95	0.122	10.73	82.00	2.10	43.53	51.20	5.27
72	1	17.36	30.51	3.00	20.00	1.92	0.13[illegible]	6.82	85.60	1.86	43.53	48.64	7.83
5	4	11.13	10.01	20.00	5.50	0.62	0.072	15.78	37.08	0.92	17.93	73.02	9.05
6	4	11.63	12.54	18.50	6.00	0.72	0.068	12.03	27.04	1.08	23.06	71.74	5.20
13	4	8.81	7.81	22.00	4.00	0.41	0.076	6.96	34.20	1.32	15.38	76.88	7.74
14	4	10.01	11.11	21.50	5.00	0.53	0.091	7.71	41.32	1.74	17.94	76.88	5.18
15	4	16.60	15.90	23.50	7.50	0.68	0.072	15.16	51.20	1.28	25.62	69.18	5.20
16	4	15.46	17.55	22.00	7.50	0.71	0.068	9.56	36.20	0.88	21.77	73.00	5.23
37	4	16.98	15.15	8.50	11.00	1.47	0.81	21.09	59.60	6.54	38.42	57.64	3.94
38	4	9.64	16.50	5.50	11.00	1.50	0.096	20.97	51.40	6.00	38.42	58.92	2.66
39	4	15.84	17.86	5.00	16.00	1.62	0.1[illegible]2	13.71	63.00	1.82	38.41	56.34	5.25
40	4	16.85	19.76	3.00	20.00	1.65	0.076	9.42	64.20	3.18	40.97	53.78	5.25
41	4	17.36	17.86	7.50	10.50	1.47	0.[illegible]04	13.06	60.00	2.56	33.29	61.48	5.23
42	4	19.01	21.85	4.50	14.50	1.71	0.105	11.49	62.60	2.52	38.42	58.92	2.66
55	4	19.39	24.32	5.50	10.50	1.38	0.105	8.37	42.60	1.04	33.29	61.48	5.23
56	4	16.85	21.09	3.00	9.50	1.32	0.076	11.17	29.00	0.68	33.30	64.04	2.66
57	4	17.11	20.14	6.50	10.00	1.32	0.073	12.23	44.00	1.18	33.30	64.04	2.66
58	4	16.47	24.51	2.50	10.00	1.47	0.094	9.46	40.20	1.08	33.29	61.48	5.23
59	4	19.00	24.84	4.50	13.00	1.53	0.094	9.93	44.40	1.24	33.29	58.90	7.81
60	4	14.83	26.46	2.00	11.00	1.62	0.079	10.91	46.60	1.06	35.85	58.90	5.25
7	2	19.26	19.04	7.00	8.50	0.97	0.091	27.79	33.18	7.78	23.05	69.16	7.79
8	2	17.74	15.60	3.00	8.50	1.02	0.102	10.81	28.40	7.72	25.62	69.18	5.20
25	2	14.45	17.55	3.50	10.00	1.06	0.082	6.40	35.14	2.66	35.85	58.90	5.25
26	2	13.85	15.60	2.00	10.00	1.20	0.147	4.29	41.84	2.34	35.86	61.48	2.66
27	2	10.30	13.50	6.00	10.00	0.97	0.133	7.43	45.56	2.78	33.30	62.76	3.94
28	2	10.19	15.75	2.50	9.00	1.10	0.137	6.53	47.30	4.76	33.30	62.76	3.94
29	2	8.93	11.25	5.00	8.00	0.83	0.070	5.17	33.30	1.08	28.18	69.18	2.64
30	2	8.97	12.45	2.00	8.00	0.98	0.379	3.46	36.42	2.12	30.74	66.62	2.64
33	2	11.15	13.05	22.50	7.00	0.71	0.114	23.44	32.08	1.10	23.06	74.30	2.64
34	2	12.80	15.90	20.50	7.50	0.85	0.110	13.66	36.26	1.24	28.18	69.18	2.64
45	2	19.26	18.62	12.00	10.00	1.08	0.098	26.57	37.42	2.60	25.62	70.44	3.94
46	2	17.11	24.15	8.00	10.50	1.19	0.086	16.61	25.66	3.04	30.74	65.32	3.94
53	2	17.36	20.90	7.00	11.50	1.20	0.082	14.66	41.60	2.00	33.29	61.48	5.23
54	2	18.88	22.42	4.50	11.00	1.26	0.093	12.49	50.00	1.32	35.86	58.91	5.23
65	2	17.36	24.15	5.50	12.00	1.44	0.093	11.92	53.80	2.84	33.29	58.90	7.81
66	2	15.59	20.93	5.50	10.50	1.35	0.104	6.38	46.60	4.22	33.30	58.91	7.79
69	2	18.63	22.08	11.00	10.50	1.74	0.093	15.19	58.80	1.06	33.29	61.46	5.25
70	2	10.14	16.33	7.00	8.50	1.41	0.108	11.63	43.80	1.50	35.86	58.91	5.23

Appendix 34: Levels of different nutrients in soil samples collected during the third trip in June 2002, at two depths (D1= 0-10 cm, D2 = 20-30 cm) from each of 36 sample plots, nine from each of none, slight, moderate and severe level of top dying of sundri in the Sundarbans

Soil sample	Compt / Plot	Soil depth	TD	EC	Na	Ca	Mg	K	N*	P	S	Br	Mn	Zn
				dS/m	meq/100 g				%	µg/g	µg/g	µg/g	µg/g	µg/g
201	33/1	D2	Mo.	15.21	3.48	16.00	7.50	1.10	0.153	8.35	286.27	3.66	15.20	0.86
202	33/1	D1	Mo.	15.71	3.54	9.50	8.50	1.20	0.163	7.56	141.08	3.02	5.40	1.04
203	33/2	D1	Mo.	19.01	3.66	12.00	7.75	1.20	0.202	7.20	249.24	4.17	12.50	1.62
204	33/2	D2	Mo.	21.74	4.02	11.00	8.25	1.30	0.158	5.19	340.51	3.91	6.86	1.48
216	22/3	D1	Mo.	19.64	4.80	5.00	9.00	1.30	0.134	6.73	143.07	3.65	5.38	3.14
217	22/3	D2	Mo.	22.99	4.88	4.75	10.00	1.70	0064	6.34	164.50	4.73	4.98	1.14
230	26/1	D1	Mo.	24.60	5.76	5.00	9.75	1.60	0.085	11.88	356.11	5.90	7.50	1.30
231	26/1	D2	Mo.	23.35	6.88	5.50	9.50	1.60	0.099	10.83	284.52	4.49	8.30	0.90
234	26/3	D1	Mo.	25.49	8.00	5.75	10.00	1.80	0.096	12.43	350.95	4.66	9.34	1.40
235	26/3	D2	Mo.	24.42	5.92	5.50	9.75	1.70	0.087	15.07	326.38	4.71	8.06	1.82
242	40/1	D1	Mo.	1.71	3.68	4.25	8.25	1.55	0.070	4.92	178.18	2.87	10.22	1.42
243	40/1	D2	Mo.	5.96	3.76	5.25	8.25	1.54	0.083	13.74	174.37	2.08	5.16	1.08
250	36A/2	D1	Mo.	22.72	5.60	4.25	9.50	1.98	0.097	13.57	241.19	3.60	8.12	1.24
251	36A/2	D2	Mo.	21.74	5.20	4.00	9.25	1.95	0.095	6.08	258.28	2.89	6.42	0.84
209a	20/2	D1	N	23.53	5.84	4.25	10.25	2.00	0.152	10.25	307.52	4.51	9.98	1.08
209b	20/2	D2	N	18.37	5.20	13.00	8.25	1.38	0.095	11.87	262.66	4.17	10.26	0.80
210	20/3	D1	N	21.74	6.32	5.25	9.25	1.60	0.149	7.60	294.40	5.51	5.68	0.86
211	20/3	D2	N	16.98	5.04	4.00	9.75	1.70	0.172	8.19	157.18	4.44	6.42	0.96
218	2/1	D1	N	16.73	5.52	16.25	8.00	0.90	0.085	6.14	131.44	2.83	9.54	0.78
219	2/1	D2	N	18.12	4.48	15.25	7.75	0.70	0.068	7.41	246.01	2.83	9.38	2.70
220	2/2	D1	N	15.21	4.16	14.75	7.00	1.32	0.064	6.51	124.98	2.85	6.85	1.04
221	2/2	D2	N	16.98	3.96	15.25	8.00	1.90	0.157	6.71	146.58	3.26	8.38	1.64
222	2/3	D1	N	17.74	5.68	15.00	7.00	0.70	0.054	3.87	130.48	2.46	8.40	1.22
223	2/3	D2	N	17.11	4.24	14.25	8.00	1.00	0.057	5.84	219.23	2.88	7.92	1.02
246	40/3	D1	N	11.53	3.76	4.75	8.00	1.38	0.064	4.02	156.86	0.87	5.30	0.96
247	40/3	D2	N	13.31	4.16	10.50	8.00	1.48	0.075	6.87	186.52	1.27	6.06	0.88
248	36A/1	D1	N	23.53	5.60	4.25	9.50	2.08	0.093	6.21	254.47	3.11	13.92	1.02
249	36A/1	D2	N	19.01	4.56	9.75	8.25	1.61	0.082	8.74	253.07	3.05	9.12	1.24
266	19B/1	D1	N	23.97	3.84	16.50	9.75	1.80	0.089	14.10	163.84	5.28	6.58	1.58
267	19B/1	D2	N	16.22	4.40	17.75	7.50	1.42	0.077	14.88	189.02	2.25	9.58	0.50
270	19B/3	D1	N	15.71	4.08	19.75	7.25	1.15	0.070	10.73	194.91	2.05	11.52	0.72
271	19B/3	D2	N	15.71	4.00	20.25	7.75	1.27	0.082	17.98	220.90	2.48	15.20	1.68
205	33/3	D1	Se	17.87	4.20	11.25	7.75	1.00	0.149	9.99	228.96	3.63	7.54	1.02
206	33/3	D2	Se	15.21	4.00	19.00	7.25	1.03	0.075	10.71	188.21	2.10	8.24	0.64
212	22/1	D1	Se	20.02	5.28	11.75	8.25	1.30	0.147	7.04	157.42	4.86	7.62	1.18
213	22/1	D2	Se	22.63	4.88	5.25	9.25	1.40	0.126	5.88	150.78	3.25	5.08	1.40
214	22/2	D1	Se	23.53	5.12	4.00	9.75	1.40	0.144	5.51	135.92	4.08	5.90	1.60
215	22/2	D2	Se	22.18	5.44	6.25	9.00	1.40	0.144	7.87	145.13	4.14	6.30	1.66
236	37/1	D1	Se	9.38	2.88	5.75	8.25	0.60	0.073	12.01	173.95	1.59	6.12	0.98
237	37/1	D2	Se	12.29	3.28	13.50	6.25	0.93	0.064	17.40	193.51	1.71	11.12	0.88
238	37/2	D1	Se	13.81	3.60	8.75	8.00	0.81	0.070	8.38	232.97	1.53	6.86	1.10
239	37/2	D2	Se	12.29	3.28	5.50	8.00	0.78	0.072	7.97	199.57	1.38	6.10	0.86
240	37/3	D1	Se	13.18	3.28	12.75	6.75	0.87	0.113	4.29	195.49	1.63	8.18	0.92
241	37/3	D2	Se	13.94	3.44	7.00	8.00	0.79	0.070	5.75	243.78	1.63	9.62	0.92
254	36B/1	D1	Se	24.96	8.96	9.00	10.00	2.18	0.113	10.55	330.17	4.49	8.30	0.80
255	36B/1	D2	Se	23.88	6.40	8.50	10.00	2.14	0.108	10.85	340.49	4.56	6.56	0.68
256	36B/2	D1	Se	15.97	6.48	7.25	10.00	2.04	0.097	9.84	378.07	3.52	6.46	1.12
257	36B/2	D2	Se	19.01	9.12	7.25	10.25	2.20	0.113	9.55	368.65	4.94	6.42	1.12
258	36B/3	D1	Se	21.74	5.52	8.75	9.50	2.05	0.075	12.90	316.96	3.08	9.38	1.24
259	36B/3	D2	Se	24.42	6.64	7.00	10.00	2.17	0.108	9.98	354.24	4.01	5.62	0.88
207	20/1	D1	S	12.04	4.08	4.00	9.75	1.70	0.149	6.23	156.27	4.07	9.04	1.28

208	20/1	D2	S	16.47	5.68	7.00	9.50	1.70	0.157	8.00	142.26	4.34	8.40	1.02
224	11/1	D1	S	27.11	4.48	5.75	10.50	2.00	0.112	4.23	415.58	5.78	14.14	1.10
225	11/1	D2	S	24.42	3.82	5.75	10.25	1.70	0.101	8.86	470.92	5.56	11.72	1.38
226	11/2	D1	S	23.53	6.40	7.25	9.00	1.30	0.078	7.58	485.00	4.62	5.58	1.08
227	11/2	D2	S	16.98	5.52	13.75	6.50	0.90	0.066	6.15	298.25	2.75	6.84	0.94
228	11/3	D1	S	24.42	5.88	8.75	9.25	1.30	0.067	5.81	336.30	4.02	6.24	1.30
229	11/3	D2	S	22.63	5.12	10.50	7.25	1.10	0.066	4.72	299.45	3.69	4.98	1.14
232	26/2	D1	S	23.70	6.32	4.75	10.00	1.70	0.069	11.47	325.53	6.04	7.00	1.22
233	26/2	D2	S	24.42	6.56	6.00	9.75	1.60	0.069	9.72	382.71	4.12	8.88	1.36
244	40/2	D1	S	14.57	4.08	6.80	8.75	1.54	0.084	9.46	260.52	2.16	5.12	1.56
245	40/2	D2	S	13.94	4.24	4.50	8.75	1.73	0.090	7.37	230.98	1.61	10.20	1.56
252	36A/3	D1	S	22.63	5.60	4.25	9.00	1.90	0.093	7.56	228.57	4.26	11.84	1.00
253	36A/3	D2	S	22.09	5.12	5.75	9.25	1.79	0.086	10.29	254.81	4.21	8.32	1.02
268	19B/2	D1	S	11.66	3.04	20.25	5.75	0.83	0.066	11.32	175.56	1.41	9.54	0.66
269	19B/2	D2	S	17.74	4.32	19.25	7.75	1.27	0.082	10.98	226.43	2.76	10.90	0.60

Notes: EC= Electrical Conductivity; TD = Top dying severity classes; Mo. = Moderate, N = None, Se = Severe, S = Slight; Na = Sodium; Ca =Calcium; Mg = Magnesium; K = Potassium; N* = Total available Nitrogen; P= Phosphorous; S =Sulphur in the form of sulphate; Br = Boron; Mn = Manganese; Zn = Zinc; dS/m = deci Siemen per meter; meq/100g = milli-equivalent per 100 gm soil; µg/g= microgram per gram of soil;

Appendix 35: Levels of different nutrients in soil samples collected during the fourth trip in January 2003 at 0-10 cm depth from each of 3[illegible] sample plots, nine from each of none, slight, moderate and severe level of top dying of sundri at 12 landings in 10 compartments, and five from healthy sundri areas outside sample plots in Compartments 8, 44 and 54 in the Sundarbans

Sample No.	Compt /Plot	Tree	Sclass	Per cent top dying of sundri	Calcium meq/100 gm	Magnesium meq/100 gm	Manganese µg/g	Zinc µg/g	Nitrogen %	Sulphur µg/g
320	19A/1	G4	Moderate	72.0	8.50	7.25	4.46	0.54	0.086	223.4
325	19A/2	G3	Moderate	62.5	7.00	7.75	8.36	0.72	0.112	218.2
324	22/3	G4	Moderate	63.15	23.25	7.00	17.22	0.76	0.109	237.9
323	26/1	G4	Moderate	64.71	23.00	7.00	10.00	0.52	0.107	269.7
322	26/3	G2	Moderate	70.00	22.50	7.25	7.36	0.54	0.072	223.7
326	33/1	G3	Moderate	61.11	20.00	7.00	8.86	0.60	0.095	222.8
321	33/2	G3	Moderate	70.83	18.50	6.75	8.96	0.54	0.109	157.9
327	36A/2	G3	Moderate	57.89	8.75	8.00	7.56	1.02	0.128	247.2
319	40/1	G3	Moderate	87.50	16.75	6.50	6.34	0.56	0.086	194.6
342	2/1	H	None	17.86	10.75	7.00	7.52	0.52	0.121	141.4
345	2/2	H	None	13.05	10.25	7.50	5.58	0.60	0.114	198.5
343	2/3	H	None	16.00	9.75	7.50	3.96	0.54	0.109	186.5
340	19B/1	H	None	23.53	6.75	8.25	7.44	0.78	0.123	213.7
338	19B/3	H	None	33.33	7.75	8.25	8.64	0.86	0.142	231.0
337	20/2	H	None	33.33	6.75	8.00	5.90	0.60	0.128	198.3
339	20/3	H	None	26.92	7.00	8.00	8.20	0.70	0.130	214.9
341	36A/1	H	None	21.74	9.50	8.00	9.38	0.84	0.139	254.8
344	40/3	H	None	13.64	10.25	8.00	11.48	1.08	0.144	237.8
331	22/1	G4	Severe	100.00	22.25	6.00	13.86	0.66	0.072	231.0
334	22/2	G4	Severe	92.31	21.75	7.00	9.44	0.58	0.128	202.0
335	33/3	G4	Severe	93.33	16.75	7.00	9.66	0.70	0.116	184.0
328	36B/1	G4	Severe	100.00	7.50	8.25	8.10	0.78	0.123	268.6
329	36B/2	G3	Severe	100.00	8.00	7.75	8.82	0.88	0.098	224.4
330	36B/3	G4	Severe	100.00	7.75	8.00	12.82	1.00	0.109	230.6
332	37/1	G3	Severe	100.00	8.75	8.00	8.56	0.78	0.118	259.4
336	37/2	G3	Severe	88.89	7.75	8.00	7.78	0.78	0.144	231.4
333	37/3	G3	Severe	100.00	9.50	8.00	8.88	0.80	0.122	230.5
315	11/1	G2	Slight	37.91	6.25	7.75	6.70	0.40	0.102	179.9
317	11/2	G2	Slight	37.5	6.25	7.75	10.16	0.90	0.130	188.9
310	11/3	G2	Slight	57.14	6.75	7.75	8.16	0.54	0.105	186.8
314	19A/3	G4	Slight	40.91	7.75	7.50	4.24	0.52	0.091	195.1
311	19B/2	G4	Slight	56.52	9.25	8.00	11.76	0.68	0.119	200.1
312	20/1	G3	Slight	52.95	6.50	7.75	7.36	0.50	0.098	203.2
318	26/2	G2	Slight	36.67	23.00	7.25	9.66	0.58	0.100	193.0
313	36A/3	G3	Slight	48.00	10.50	8.25	9.12	0.68	0.121	218.8
316	40/2	G3	Slight	37.50	12.75	7.75	10.34	0.74	0.112	201.5
375	54	H	Extra	-	20.25	6.25	11.32	0.56	0.079	209.3
376	54	H	Extra	-	5.50	7.50	4.36	0.62	0.072	256.6
377	54	H	Extra	-	14.00	6.25	7.04	0.42	0.061	210.6
379	44	H	Extra	-	7.00	7.75	6.50	0.76	0.102	241.9
380	8	H	Extra	-	8.50	7.00	6.66	0.52	0.082	191.8

Notes: % * = Per cent of total available Nitrogen; Sulphur in the form of sulphate; meq/100g = milli-equivalent per 100 gm soil; µg/g= microgram per gram of soil;