

Chairman: Vice Admiral M. P. Awati
Director: Prakash Gole

Ecological Society

Only One Earth A Course in Ecology Appreciation

- Is Agriculture a good practice?
- Is Modern technology a solution to our problems or the cause of it?
- Does Market Economy provide a better Quality of life?
- What dictates our progress: Technology, Market or Ethics?
- Is our present affluence an indicator of our future devastation?
- Is there another Way?

Yes! And this course is all about the other Way, a way that is sustainable, benign, and one, which doesn't compromise our future for our present.

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This course will serve as a foundation for all those aspiring to contribute towards the betterment of human life. It will elaborate on the various options and avenues available where substantial constructive work can be undertaken in this field.

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***Uber alles*, this course promises a paradigm shift in your way of looking at Nature.**

The Course will be held on ~~15th February 2003(Saturday)~~ and ~~16th February 2003(Sunday)~~ at the following address:

"Ecological Society",
2nd floor, Jayanti Apartments,
Behind Arthabodh
Senapati Bapat Road
Pune-411016

Tel: 5677312

Course Fees: Rs 400/- (Includes Course material),

Last date of registration: ~~7th February 2003~~.

Kindly register yourself by paying the fees at the above address between 11Am and 1Pm, Monday to Friday (Except Thursday). There are only 20 seats for this Course.

UPA

Prakash Gole
Director Data

											A	B	
Q-11	Q-12	Q-13	Q-14	Q-15	Q-16	Q-17	Q-18	Q-19	Q-20	Q-21	Total no of individuals	↓	
20	50+	1	50+	50+	45		5	50+	10	50+	254	654	19
			50+					12	50+		11		2
			50+	20					50+		37		6
50+	50+		50+								78		8
											21		3
12		50+	36	25							93		9
											0		0
		1			4					5	24		9
											3		2
											3		1
									50+		0		0
					4						4		1
											0		
								6			0		
											20		3
1										1	13		8
		1					1		2	3	21		
							1				1		
											1		
											19		
											1		
3	8		2	1				2	1		37		
											5		
										2	2		
18	5			1	13			12	6		75		
		1			3						6		
					50+						16	50	
							1				2		
							5				8		
											1		
											1		
											3		
		3	9								16		
											1		
2											2		
		28		33			3				64		
		11									11		
		1									1		
			16	20							36		
				1							1		
					1						1		
						1					1		
							1	1			2		
								2			2		
								1			1		
								2			2		
								1			1		
									2		2		
											1		
									2		2		

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Ecological Society

Ecology Appreciation Course.

Duration: 2 Days. (~~15th Feb.~~ - 16th Feb. 2003)

Fees: Rs. 400/-

Course structure:

Session No.	Date/Time (Dates as given above)	Subject covered
1st	15th Feb. 2003/1000 hrs -1200 hrs	Man, his development and implications towards nature
	15th Feb. 2003/1200hrs - 1400 hrs	Lunch break
2nd	15th Feb. 2003/1400hrs - 1600hrs	Implications of our present economic model and Environmental economics
	15th Feb. 2003/1600 hrs - 1630 hrs	Tea time
3rd	15th Feb. 2003/1630 hrs - 1830 hrs	Our natural resources (Part 1)
4th	16th Feb. 2003/1000 hrs - 1200 hrs	Our natural resources (Part 2)
	16th Feb. 2003/1200 hrs - 1400 hrs	Lunch break
5th	16th Feb. 2003/1400 hrs - 1600 hrs	Problems and solutions
	16th Feb. 2003/1600 hrs - 1630 hrs	Tea time
6th	16th Feb. 2003/1630 hrs - 1830 hrs	Case studies and conclusion

Study material will be provided during each session.

Only 20 participants will be admitted on first come first serve basis.

Eligibility: Graduation in any discipline

If you are interested in various Events and activities carried out by Ecological Society, Pune kindly fill in the following information about yourself and we will send you regular updates about our programs. (Via Email)

Name:

Address:

Phone Number:

Email:

Age:

Sex:

Educational Qualification:

Occupation:

Hobbies/ Interests:

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Phone Number:

Email:

Age:

Sex:

Educational Qualification:

Occupation:

Hobbies/ Interests:

9

40	Parthenium								1	2	2			1	1		1
41	✓ D-1								1								
42	✓ Trientema									1						11	8
	✓ Mimosa hamata													1			
	✓ Lavandula Burmani													1	7		
	✓ Echinops echinatus														1		
	✓ Chrosophora														1		
	✓ Phyllanthus niruri Niruri															1	
	✓ Pappalia																4
	? Phylonodia																3
	✓ Solanum indicum																
	✓ Cassia holoseriica																
	✓ Corchorus																
	✓ Oscimum canom																
	✓ Anotis																
	✓ Launea pinatifida																
	✓ Hibiscus ?																
	✓ H-7																
	✓ Fabeceae																
	✓ Lantana camera																
	✓ D-2																
	✓ Cryptostegia grandiflora																
	✓ Neem sapling																
	✓ H-2 Rajashree																
	? dicanthus																
	✓ Rugnia																
	? Phaseolus sublobatus																
	Sedges																
	✓ Cyperus sp.																47
	✓ Elusine sp.																2

e

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Address:

Phone Number:

Email:

Age:

Sex:

Educational Qualification:

Occupation:

Hobbies/ Interests:

Study of Plant Community by Quadrat Method



Locality:

Type of quadrats:

Date & time:

Name of the recorder: Nrupali

PA

Sr. No.	Name / Symbol of the species	Quadrats					A	B	C	D	E	F
		Number of Individuals					Total No. of Individuals	No. of Quadrats of occurrence	Total No. of Quadrats studied	Abundance [A/B]	% Frequency [B/C x 100]	Density [A/C]
		1 ^x	2 ^y	3 ^z	4 ^{AA}	5						
1.	<u>Lepidagathis cristata</u>	1		4								
2.	<u>striga euphresiodis</u>	4										
3.	<u>Indigofera cordifolia</u>	5	1	7	17							
4.	<u>Jurticia sp.</u>	4	2									
5.	<u>selima</u>	3		2	21							
6.	<u>Andropogon pumilus</u>	2										
7.	<u>Paspalum sp.</u>	13										
8.	<u>Digitaria</u>	7			17							
9.	<u>Melanocenebris royaliana</u>	2	3		5							
10.	<u>Celosia</u>		6									
11.	<u>Alternanthera</u>		1	1								
12.	<u>Heteropogon</u>		10	5	12							
13.	<u>Bliumea</u>		2	3								
14.	<u>Indigofera linifolia</u>		1	1	4							
15.	<u>Euphorbia</u>			9								
16.	<u>Chrysopogon fulvus</u>				1							
17.	<u>Ziziphus</u>				1							
18.	<u>Cyperus</u>				14							

Study of Plant Community by Quadrant Method

✓
21/04/09 PA

Locality:
Date & time:

Type of quadrats:
Name of the recorder: Saupade

Sr. No.	Name / Symbol of the species	Quadrats					A Total no. of Individuals	B No. of Quadrats of occurrence	C Total No of Quadrats studied	D Abundance [A/B]	E % Frequency [B/C x 100]	F Density [A/C]
		Number of Individuals										
		1 J	2 K	3 L	4 M	5 N						
1.	<i>Alternanthera laevis</i>	50+	31	15								
2.	<i>Parthenium</i>	1		2	2							
3.	<i>Indigofera cardiflora</i>	6	8	10	5							
4.	<i>Lopopogon tridentatus</i>	1										
5.	G1	5		4								
6.	<i>Lepidagostis cristata</i>	2		1	4							
7.	<i>Digitaria</i>	2	6	2								
8.	<i>Sesima</i>	7										
9.	D1	1										
10.	<i>Heteropogon incisus</i>		3	1		1						
11.	Lucas		1									
12.	<i>Justoa sp.</i>		10	1		1						
13.	<i>Tridax</i>		1									
14.	<i>Vernonia cinerea</i>		1									
15.	<i>Arisida</i>					50+						

1 2^k 3^L 4^m 5^{col}

16. Sporobolus

7

Traintima

1

Cysopogon montanus

6

Andropogon purpureus

5

Blumea

9

Iseilema sp.

1

Lulibania

1

1. Andropogon purpureus
 2. Cysopogon montanus
 3. Blumea
 4. Iseilema sp.
 5. Lulibania
 6. Sporobolus
 7. Traintima
 8. Andropogon purpureus
 9. Blumea
 10. Cysopogon montanus
 11. Sporobolus
 12. Traintima
 13. Andropogon purpureus
 14. Blumea
 15. Iseilema sp.
 16. Lulibania
 17. Sporobolus
 18. Traintima
 19. Andropogon purpureus
 20. Blumea
 21. Iseilema sp.
 22. Lulibania
 23. Sporobolus
 24. Traintima
 25. Andropogon purpureus
 26. Blumea
 27. Iseilema sp.
 28. Lulibania
 29. Sporobolus
 30. Traintima
 31. Andropogon purpureus
 32. Blumea
 33. Iseilema sp.
 34. Lulibania
 35. Sporobolus
 36. Traintima
 37. Andropogon purpureus
 38. Blumea
 39. Iseilema sp.
 40. Lulibania
 41. Sporobolus
 42. Traintima
 43. Andropogon purpureus
 44. Blumea
 45. Iseilema sp.
 46. Lulibania
 47. Sporobolus
 48. Traintima
 49. Andropogon purpureus
 50. Blumea
 51. Iseilema sp.
 52. Lulibania
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 62. Blumea
 63. Iseilema sp.
 64. Lulibania
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 66. Traintima
 67. Andropogon purpureus
 68. Blumea
 69. Iseilema sp.
 70. Lulibania
 71. Sporobolus
 72. Traintima
 73. Andropogon purpureus
 74. Blumea
 75. Iseilema sp.
 76. Lulibania
 77. Sporobolus
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 86. Blumea
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 88. Lulibania
 89. Sporobolus
 90. Traintima
 91. Andropogon purpureus
 92. Blumea
 93. Iseilema sp.
 94. Lulibania
 95. Sporobolus
 96. Traintima
 97. Andropogon purpureus
 98. Blumea
 99. Iseilema sp.
 100. Lulibania

Study of Plant Community by Quadrat Method

Group 2 ✓

Locality: _____

Type of quadrats: _____

Protected Area.

Date & time: _____

Name of the recorder: _____

Sampada

Sr. No.	Name / Symbol of the species	Quadrats					A	B	C	D	E	F
		Number of Individuals					Total No. of Individuals	No. of Quadrats of occurrence	Total No. of Quadrats studied	Abundance [A/B]	% Frequency [B/C x 100]	Density [A/C]
		1 ⁰	2 ^P	3 ^Q	4 ^R	5 ^S						
1.	<i>Heteropogon contortus</i>	9	14		20							
2.	<i>Crysopogon fulvus</i>	1										
3.	<i>Lopopogon tridentatus</i>	22										
4.	<i>Andropogon pumilus</i>	3		13								
5.	<i>Justicia</i>	12	10	1								
6.	<i>Indigofera cardifolia</i>	12	15	6+1	12							
7.	<i>Lepidogastis cristata</i>	7	1	6								
8.	<i>Polygella eryoptera</i> <i>Indigofera sp.</i>	3										
9.	<i>Tridax</i>	1										
10.	4 ₁ <i>Crysopogon montanus</i>	7										
11.	<i>Aristida spp.</i>	25										
	<i>Vernonia sineria</i>			7								
12.	<i>Mimosa hamata</i>		1									
13.	<i>Lavendula sp.</i>		1		7							
14.	<i>Puligaria vitcaua</i>			1								
15.	<i>Acacia arabica</i>			1								
	<i>Parthenium</i>			1								

Study of Plant Community by Quadrat Method



Locality: _____

Type of quadrats: _____

Protected area
(Hemant Zunjarrao)

Date & time: _____

Name of the recorder: _____

Sr. No.	Name / Symbol of the species	Quadrats					A Total No. of Individuals	B No. of Quadrats of occurrence	C Total No. of Quadrats studied	D Abundance [A/B]	E % Frequency [B/C x 100]	F Density [A/C]
		Number of Individuals										
		1 E	2 F	3 G	4 H	5 I						
1)	<i>Chrysopogon fulvus</i>	11	—	—	—	—						
2)	<i>Setaria terrestris sp.</i>	04	09	03 33	04	—						
3)	Andropogon <i>Andropogon pumilus</i>	45	—	—	—	—						
4)	<i>Travosneara</i>	03	—	—	—	—						
5)	Herb <i>Hejlandia</i>	05	10	—	—	—						
6)	<i>Phuleecaria</i> (रुतमळी)	02	02	—	—	—						
7)	<i>Apepideegrastida</i> (creastade) (रुतमळी)	02	01	—	—	—						
8)	<i>Trydax</i> (रुतमळी)	—	02	—	—	20						
9)	<i>Heteropogon contortus</i>	—	01	—	—	50+						
10)	Leucas	—	02	—	—	—						
12)	<i>Cyperus</i> sp.	—	—	47	02	—						
13)	<i>Alysee</i> corpose	—	—	—	02	—						
14)	<i>Cythoclinepurpuria</i>	—	—	—	05	—						
15)	<i>Zizyphus numularia</i> (tree)	—	—	—	—	01						
16)	<i>Aristida</i>	—	—	—	—	63						
17)	<i>Indigofera</i> (रुतमळी)	—	—	—	—	05						
18)	Justicia	—	—	—	—	16						

Study of Plant Community by Quadrat Method

Locality: Inside the fence

Date & time: 14/11/2005

Type of quadrats: ✓

Name of the recorder: Tryphi

Sr. No.	Name / Symbol of the species	Quadrats					A	B	C	D	E	F
		Number of Individuals					Total No. of Individuals	No. of Quadrats of occurrence	Total No. of Quadrats studied	Abundance [A/B]	% Frequency [B/C x 100]	Density [A/C]
		1 ^B	2 ^C	3 ^D	4 ^E	5 ^F						
17.	Ossimum Canom			12			12	1				
18.	Eragrostis			1			1	1				
19.	Vernonia sineria			1	1		2	2				
20.	Anotis?			5			5	1				
21.	Blumia			2	2		4	2				
22.	Lawnia pinatifida			1			1	1				
23.	Hibiscus			1			1	1				
24.	Euphorbia <u>rossa</u> ?			2			2	1				
25.	H7 (unidentified)			1			1	1				
26.	Vernonia sp.			1			1	1				
27.	Alternanthera acutis				1		1	2				
28.	Phabyaceae family				2		2	2				

Study of Plant Community by Quadrat Method



Locality: Inside the fence

Type of quadrats:

Date & time: 14/11/2005

Name of the recorder: Tripti, Reena, Vinod,

Sr. No.	Name / Symbol of the species	Quadrats					A	B	C	D	E	F
		Number of Individuals					Total No. of Individuals	No. of Quadrats of occurrence	Total No. of Quadrats studied	Abundance [A/B]	% Frequency [B/C x 100]	Density [A/C]
		1 ^B	2 ^C	3 ^D	4 ^E	5 ^F						
1.	Jasticeae	8	6		7		21	3				
2.	Heteropogon contratus	4	6	2	2		14	4				
3.	Tridax procumbance	5		6			11	2				
4.	Lucas longifolia	11		1	2		14	3				
5.	Indigofera cordifolia	2	3		5		10	3				
6.	Parthenium	1	1				2	2				
7.	Polygala euriptera	4					4	1				
8.	Leersia	1					1	1				
9.	Lophopogon tridentatus	7					7	1				
10.	Cassia Holocerica?		1				1	1				
11.	Lavandula burmanae		10				10	1				
12.	<u>Zyziphus rotundifolia</u>		5				5	1				
13.	Evolvulus alsinoids		3		1		4	2				
14.	Crysopogon <u>tubus</u>		3				3	1				
15.	Lepidogathis cristata		5		1		6	2				
16.	Corchorus		1				1	1				

UP - Unprotected area Study of Plant Community by Quadrat Method

(1) - Approx. no. of individuals

Locality:

Date & time: 15/11/05, 7.45 am

Type of quadrats: 1x1m

Name of the recorder: Reena, Philip, Shobha

Sr. No.	Name / Symbol of the species	Quadrats					A	B	C	D	E	F
		Number of Individuals					Total No. of Individuals	No. of Quadrats of occurrence	Total No. of Quadrats studied	Abundance [A/B]	% Frequency [B/C x 100]	Density [A/C]
		7.45 1 UP	8.15 2 UP	8.15 3 UP	8.15 4 UP	8.50 5 UP						
1)	<i>Heteropogon contortus</i> (200)	50+	1	(90) 50+	(200) 50+	45						
2)	<i>Hyrcarpus</i> sp. <i>Rhyzela</i> sp.	5			1	12						
3)	<i>Striga</i> sp.	8		2	1							
4)	<i>Aristida</i> sp. (2200)	50+		(60) 50+	20							
5)	<i>Chrysopogon fulvous</i> (short)	1	1			4						
6)	<i>Indigofera cordifolia</i>		28		23							
7)	<i>Lucas</i> sp. <i>linifolia</i> sp.	2	1									
8)	<i>Melanthera</i> sp.		50+	36	25							
9)	H ₁ <i>Monsonia senegalensis</i>		11									
10)	<i>Lepidogathis cristatus</i>		1			3						
11)	H ₂ <i>Cyanotis</i> sp.		1									
12)	H ₃ <i>Crotalaria</i> sp.		3	9								
13)	<i>Lophopogon tridentatus</i>			80								
14)	H ₄ <i>Indigofera linifolia</i>			16	20							
15)	Kardu				1							
16)	...											
17)	<i>Tridax</i> sp.					7						
18)	<i>Setima</i> sp.					4						
19)	<i>Euphorbia sp.</i>					1						

Semi-triplicate

Grasslands
N. Border (West)
N. Border (North)

Study of Plant Community by Quadrat Method



UPA

Locality: outside (unprotected)

Type of quadrats:

Date & time: 7.25 am

Name of the recorder: Nmpali

Sr. No.	Name / Symbol of the species	Quadrats					A	B	C	D	E	F
		Number of Individuals					Total No. of Individuals	No. of Quadrats of occurrence	Total No. of Quadrats studied	Abundance [A/B]	% Frequency [B/C x 100]	Density [A/C]
		1	2	3	4	5						
1.	<u>Meteropogon cantortus</u>	32	22	23	52	21						
2.	<u>Lophopogon</u>		11	13								
3.	<u>Justicia</u> (small)	4		2	1							
4.	<u>Aristida</u>		30	7								
5.	<u>Leucas</u>	1	6	1	1	4						
6.	<u>Digitaria</u>	2		5	14							
7.	<u>Melanocentris</u>	1			7							
8.	U ₁ (Evolvulus)	6	8									
9.	<u>Cassia auriculata</u> (res ⁿ)	1										
10.	U ₂	2			17							
11.	U ₃	1										
12.	<u>Striga</u>		8									
13.	<u>Chrysopogon fulvus</u>		2	4		7						
14.	U ₄ (U₄)		5									
15.	<u>Cyanodon dactylon</u>		2									
16.	<u>Alysicarpus</u>											
17.	U ₅ <u>Polygala auripetala</u>			13								
18.	<u>Lepidagathis cristata</u>				1							

Study of Plant Community by Quadrat Method.

✓
OPA

Locality: _____

Type of quadrats: _____

Date & time: _____

Name of the recorder: *Nmpali*

Sr. No.	Name / Symbol of the species	Quadrats					A	B	C	D	E	F
		Number of Individuals					Total No. of Individuals	NO. of Quadrats of occurrence	Total No. of Quadrats studied	Abundance [A/B]	% frequency [B/C x 100]	Density [A/C]
		1	2	3	4	5						
19.	<i>Tridax</i> R				16							
20.	<i>ziziphus</i>				3							
21.	<i>Plugga</i>				1							
22.	<i>Cucurbitaceae</i>				1							
23.	<i>K₁</i>				3							
24.	<i>Cassia</i>				1							
25.	<i>Cenchrus</i>					3						
25)	<i>V₆ Entolonia phyllipus</i>					4						





Study of Plant Community by Quadrat Method.

Locality: फलटोल - protected area.

Type of quadrats: 1M x 1M PA

Date & time: 15.11.05 8 a.m - 9 a.m.

Name of the recorder: सयोरबा, मजुशी, वृषाली कुवेकर

Sr. No.	Name / Symbol of the species	Quadrats					A	B	C	D	E	F
		Number of Individuals					Total No. of Individuals	No. of Quadrats of occurrence	Total No. of Quadrats studied	Abundance [A/B]	% Frequency [B/C x 100]	Density [A/C]
		1 _R	2 _S	3	4	5						
1.	<i>Vernonia</i>	4										
2.	U 	10										
3.	<i>Blumea</i>	21										
4.	<i>Alternanthera</i>	10										
5.	(climber) <i>Phaseolus sublobatus</i> (राजमूग)	5										
6.		4										
7.	<i>Acacia</i> (R)	2	3									
8.	<i>Cynodon</i> sp. (Grass)	18										
9.	<i>Phyllanthus</i> sp. 	3										
10.	U herb 	1										
11.	<i>Cyperus</i>	50										
12.	<i>Jesticra</i>	2										
13.	<i>Pulicaria whitiana</i>	2	7									
14.	<i>Tridax</i>		6									
15.	<i>Cassia auriculata</i> (R)		1									
16.	<i>Azotis</i>		6									
17.	<i>Polygala</i>	3										

R - Regeneration. P 2 - Insects - looper caterpillar, black coloured beetle, red coloured beetle, ants seen.

Study of Plant Community by Quadrat Method

PA

Locality:

Type of quadrats:

Date & time: 14/11/2005

7:30 am onwards

Name of the recorder: राजेश्वरी, सुमेधा, हार्दिकेश्वर
गावडे सुराकर तखलकर

Sr. No.	Name / Symbol of the species	Quadrats					A Total No. of Individuals	B No. of Quadrats of occurrence	C Total No. of Quadrats studied	D Abundance [A/B]	E % Frequency [B/C x 100]	F Density [A/C]
		Number of Individuals										
		1 M	2 N	3 O	4 P	5 Q						
1	<i>Helandia latiflora</i>	1		10	4							
2	<i>Alecea carpos longifolia</i>	1										
3	<i>Cryptosiegia grandiflora</i>	2	1									
4	<i>Digitaria</i>	5	12									
5	<i>Leersia</i>	24		15								
6	<i>Themeda</i>	2										
7	<i>gr. cynodon</i>	46										
8	<i>Corchorus sp</i>	1										
9	<i>Alysicarpus</i> (30 cm) ^{H2}	2	3 (61 cm)	40	16							
10	<i>Indigofera cordifolia</i>	2										
11	<i>Trianthema</i>	1	1									
12	##		3									
12	<i>Dicanthus sp.</i>			10	6							
13	<i>Chrysopogon fulvus</i>			1		1						
14	<i>Lepidagis cristata</i>			15	6							
15	H3 <i>Rungia</i>			8								
16	G2			6								
17	<i>Chloris</i>				6							
18	<i>Cassia auriculata</i>				2							

Quadrat No. 1 - Near stream, wet soil, low lying area
Near this quadrat - *Cryptostegia* - flowering & fruiting, *Acacia*
Insects - midges, ants (1/2/10) | *Digitaria* - abun in abundance
plant tiger butterfly | *Cassia Arciculata*

Quadrat No. 2 - Near stream, wet, soil + +
Insects - grasshopper - (1)

Quadrat No. 3 - Near fence,

No. 4 -

Quadrat No. 5 - cowbug & 1/2/10

Study of Plant Community by Quadrant Method.

✓
PA

Locality: _____
Date & time: _____

Type of quadrats: _____
Name of the recorder: Rajeshree

Ss. No.	Name / Symbol of the species	Quadrats					A	B	C	D	E	F
		Number of Individuals					Total No. of Individuals	No. of Quadrats of occurrence	Total No. of Quadrats studied	Abundance [A/B]	% Frequency [B/C x 100]	Density [A/C]
		1	2	3	4	5						
	pupalia <u>Papalia</u>				2							
	H5 Indigofera <u>Indigofera tinctoria</u>				4							
	C, <u>Tavarniera</u>				4							
	<u>Justicia</u>					17						
	<u>Heteropogon contortus</u>					2						
	<u>Lavendula</u>					1						
	eg. <u>Behima ??</u>					3						
	<u>Andropogon</u>					1						
	G4 <u>Aristida Sp</u>					5						
	H6 <u>Neononia</u>					1						
	H7 <u>Lucas</u>					1						

Study of Plant Community by Quadrat Method



Locality:

Date & time: 13/11/05

Type of quadrats: ✓

protected area

Name of the recorder: Rajashree

Sr. No.	Name / Symbol of the species	Quadrats					A Total No. of Individuals	B No. of Quadrats of occurrence	C Total No. of Quadrats studied	D Abundance [A/B]	E % Frequency [B/C x 100]	F Density [A/C]
		Number of Individuals										
		Ⓜ 1	Ⓜ 2 <small>in the Wetland</small>	Ⓜ 3 <small>in the Meer U. Bherav</small>	Ⓜ 4	Ⓜ 5						
1	<i>Alteganthera Sisils</i>	15		14	35							
2	<i>Indigofera cordifolia</i>	1		6	8							
3	<i>Pulicaria wightiana</i> <small>(ex. 10/10/05)</small>	1										
4	<i>Parthenium</i> <small>stick insect</small>	4			1							
5	<i>Cyrtos</i>	4										
6	<i>Trianthema</i>	5										
7	<i>Paspalum sp.</i>	6										
8	<i>Polygala triopstela</i> <i>exioptera</i>	2										
9	<i>Sporogolus</i>	24										
10	<i>Eleusine sp.</i>	9										
11	<i>Eragrostis</i>		1									
12	<i>Digitaria</i> <small>spider</small>	2		1	13							
13	<i>Cryptostegia</i> <small>winged ant</small>	10		1								
14	<i>Neem</i> (sapling)	2										
15	<i>Alicicarpus</i> (<i>Alysicarpus</i>)	1		1	1	1						
16	<i>Laenia pinalitida</i>			2	1							
17	<i>Aristida</i>			15								
18	Unidentified Herb <i>Alysicarpus</i>			1								

4th quadran

5th quadral (New pathway or it)

R₁

H₁

H₂

H₃ (~~gesti~~ justiaia)

Isilima.

Euphorbia

8

3

1000

200

100

10

5

1

10

Study of Plant Community by Quadrat Method

Locality: Inside the

Date & time: 13/11/2005

Type of quadrats: ✓

Name of the recorder: Trupti, Manjini, Sanjay

Sr. No.	Name / Symbol of the species	Quadrats					A	B	C	D	E	F
		Number of Individuals					Total No. of Individuals	No. of Quadrats of occurrence	Total No. of Quadrats studied	Abundance [A/B]	% Frequency [B/C x 100]	Density [A/C]
		1 F	2 #	3	4	5						
1.	<i>Lucas longifolia</i>	2					2	1	2			
2.	<i>Lonia Binakiflora</i> <i>laurea</i>	1	1				2	2	"			
3.	<i>Alternanthera acilis</i>	10	1				11	2	"			
4.	<i>Digitaria</i> sp.	3					3	1				
5.	<i>Indigofera cordifolia</i>	2					2	1				
6.	<i>Sahima</i>	7					7	1				
7.	<i>Tridax procumbens</i>	1	7				8	2				
8.	<i>Sporobolus</i>	50+	1				51	2				
9.	<i>Poligela eurioptera</i>	4					4	1				
10.	<i>Cynodon dactylon</i>	8	50+				58	2				
11.	<i>Elusina</i>	5					5	1				
12.	<i>Comelina</i> sp.		2				2	1				
13.	<i>Comelina</i> <i>Solanum nigrum</i>		1				1	1				
14.	<i>Cucurbitaceae</i> family (climber)		1				1	1				
15.	<i>Iantana</i>		3				3	1				
16.	<i>Zyziphus rotundifolia</i>		1				1	1				
17.	D 2		2				2	1				
18.	<i>Cryptostegia glandiflora</i>		1				1	1				

Study of Plant Community by Quadrat Method

Locality:

Date & time: 13/11/2005

Type of quadrats:

Name of the recorder: Triphi, Manjini, Sanjay

Sr. No.	Name / Symbol of the species	Quadrats					A	B	C	D	E	F
		Number of Individuals					Total No. of Individuals	No. of Quadrats of occurrence	Total No. of Quadrats studied	Abundance [A/B]	% Frequency [B/C x 100]	Density [A/C]
		1	2	3	4	5						
	Andropogon Unidentified		50+				50	1	2			
			50+				50	1	2			