APPENDIX

Appendix Table 1 Details of other gibbons

ID	DATE	TIME	PLOT	COOR_X	COOR_Y	COUNT	AM	AF	BJ	SJ	IN	REMARK
1	16_11_2003	10.40	1Y39	779740	1820760	1	buff					buff G1 -exclude
2	11_12_2003	8.25	1R46	779440	1820420	1	buff					Call with G1
3	11_12_2003	8.25	1Q46	779400	1820420	1	buff					Call with G2
4	11_12_2003	13.20	1Y39	779740	1820760	3	Palebuff	blk		blk		move
5	11_12_2003	13.20	1X39	779700	1820760	3	Palebuff	blk		blk		move
6	12_12_2003	8.30	1S47	779500	1820360	2	Palebuff	blk				
7	12_12_2003	13.46	1Y39	779740	1820760	3	Palebuff	blk		blk		in G1's home range
8	12_12_2003	13.46	1Y40	779740	1820720	3	Palebuff	blk		blk		in G1's home range
9	13_12_2003	7.00	1Y39	779740	1820760	3	Palebuff	blk		blk		in G1's home range
10	13_12_2003	7.00	1Y40	779740	1820720	3	Palebuff	blk		blk		in G1's home range
11	13_12_2003	12.35	1Y39	779740	1820760	3	Palebuff	blk		blk		in G1's home range
12	13_12_2003	12.35	1Y40	779740	1820720	3	Palebuff	blk		blk		in G1's home range
13	14_12_2003	7.00	TD00	779350	1820750	1						1 ad buff
14	25_01_2004	8.17	1Q47	779400	1820360	2		blk			blk	Ttok550
15	27_01_2004	8.12	TC500	779900	1821000	2						1 ad blk. ,1 ad palebu
16	28_01_2004	8.40	TA1700	779500	1821100	1						1 ad black

Appendix Table 1 (Continued)

ID	DATE	TIME	PLOT	COOR_X	COOR_Y	COUNT	AM	AF	BJ	SJ	IN	REMARK
17	22_02_2004	10.00	1W40	779640	1820720	3	blk	blk		blk		calling,move,bask
18	22_02_2004	10.00	1U38	779600	1820820	3	blk	blk		blk		calling,move,bask
19	22_02_2004	10.20	1U37	779600	1820860	3	blk	blk		blk		calling,move,bask
20	22_02_2004	10.20	1W37	779640	1820860	3	blk	blk		blk		calling,move,bask
21	24_02_2004	8.00	1Q41	779375	1820700	3	buff	blk		blk		HEF, eatting
22	24_02_2004	8.50	-	779525	1821200	4	blk	blk	blk		buff	HEF, eatting
23	27_03_2004	8.40	1Q38	779400	1820820	2	blk	blk				Call&move to eat-Fr
24	29_03_2004	8.25	-	778750	1820850	1	buff					move
25	30_03_2004		-	779750	1820800	1						1 ad buff ,HEF
26	23_04_2004	8.20	1R33	779440	1821060	4	buff			blk		1 ad blk,1 ad buff
27	23_04_2004	9.25	1Q46	779400	1820420	3	Palebuff	blk			blk	eat-Fr-Sai Krang
28	23_04_2004	13.50	1P46	779640	1820420	3	Palebuff	blk		buff		eat-Fr-Sai Krang
29	24_04_2004	6.00	1S49	779500	1820260	2		blk			blk	move
30	24_04_2004	9.00	1S33	779500	1821060	2	blk	blk				move
31	25_04_2004	6.25	1T36	779540	1820920	4	buff	blk	blk	blk		eat-Fr-Sai
32	27_04_2004	7.30	-	780100	1820650	1						1 ad black

Appendix Table 1 (Continued)

ID	DATE	TIME	PLOT	COOR_X	COOR_Y	COUNT	AM	AF	BJ	SJ	IN	REMARK
33	21_05_2004	9.20	1X52	779700	1820120	3	Palebuff	blk		blk		Small juvenile
34	21_05_2004	10.15	1W38	779640	1820820	3	blk	blk		blk		sit-move,grooming
35	21_05_2004	10.15	1U37	779600	1820860	3	blk	blk		blk		sit-move,grooming
36	23_05_2004	11.05	E52	780025	1820125	3	buff	blk		blk		DEF
37	27_06_2004	7.14	-	779444	1820835	3	buff	blk		blk		G1 , HEF
38	27_06_2004	8.17	-	779518	1821272	2	blk	blk				HEF
39	28_06_2004	6.42	-	779260	1820430	3	buff	blk		blk		Move
40	23_07_2004	7.47	1U36	779600	1820920	4	blk	blk		blk	buff	eat,play
41	24_07_2004	8.15	1W35	779640	1820960	4	blk	blk		blk	buff	Calling 3 groups
42	24_07_2004	8.16	1R37	779440	1820860	2	blk	blk				Calling 3 groups
43	24_07_2004	12.15	1R47	779440	1820360	3	Palebuff	blk		blk		Small juvenile
44	24_07_2004	12.15	1Q46	779400	1820420	3	Palebuff	blk		blk		Small juvenile
45	24_07_2004	13.05	1O45	779300	1820460	2	buff			buff		Tgai250
46	25_07_2004	8.25	TX200	778113	1820135	1			blk			HEF
47	26_07_2004	11.55	-	778995	1820090	4	buff	buff	buff	buff		move
48	26_08_2004	8.04	1Q38	779400	1820820	2		blk		blk		eat-Fr-Ma Faen

Appendix Table 1 (Continued)

ID	DATE	TIME	PLOT	COOR_X	COOR_Y	COUNT	AM	AF	BJ	SJ	IN	REMARK
49	29_08_2004	6.34	1R36	779440	1820920	2	blk	blk				G2B
50	29_08_2004	6.08	1S50	779500	1820220	3	buff	blk		blk		forage
51	30_08_2004	8.25	-	779450	1820700	4	buff	blk		blk	blk	G1 , HEF
52	24_09_2004	10.40	1N40	779240	1820720	3	Palebuff	blk			blk	large infant
53	24_09_2004	13.05	1N41	779240	1820660	3	Palebuff	blk			blk	large infant
54	25_09_2004	13.05	1O41	779300	1820660	3	Palebuff	blk			blk	large infant
55	25_09_2004	8.50	1N42	779240	1820620	2	Palebuff	blk				call
56	26_09_2004	7.48	1Y49	779740	1820260	3	buff	blk		blk		move
57	28_09_2004	9.25	-	779400	1820700	4	buff	buff	buff	buff		move
58	26_10_2004	7.48	1Z50	779800	1820220	3	buff	blk		blk		move
59	26_10_2004	7.48	1X52	779700	1820120	3	buff	blk		blk		move
60	26_10_2004	7.48	1W52	779640	1820120	3	buff	blk		blk		move
61	26_10_2004	10.30	1Q37	779400	1820860	1	blk					move,forage
62	26_10_2004	11.15	1R36	779440	1820920	2	blk			blk		eat-Fr-Po Khi Haet
63	26_10_2004	12.30	1Q34	779400	1821020	1	blk					move,forage
64	27_10_2004	12.31	1X29	779700	1821260	4	buff	buff		brown	buff	move

Appendix Table 1 (Continued)

ID	DATE	TIME	PLOT	COOR_X	COOR_Y	COUNT	AM	AF	BJ	SJ	IN	REMARK
65	27_10_2004	13.00	1R36	779440	1820920	1	buff					eat-Fr-Po Khi Haet
66	28_10_2004	10.45	-	779200	1820900	2	Palebuff	blk				duet call
67	29_10_2004	7.50	-	779475	1820350	4	buff	blk		blk	blk	G1 , HEF
68	27_11_2004	14.00	1Y40	779740	1820720	4	buff	blk		blk	blk	G1
69	28_11_2004	9.00	1X41	779700	1820660	4	buff	blk		blk	blk	G1
70	28_11_2004	10.20	1Q52	779442	1820106	3	buff	blk		blk		move
71	28_11_2004	10.20	1R52	779440	1820120	3	buff	blk		blk		move

Appendix Table 2 Trees in sample plots for profile diagrams

Line	Plot	No.	Species	X	Y	DBH	HT	H1	Crow Cover				Remark
									N	S	E	W	
2	1	1	Sai Yoi Bai Thu	1	2	186.5	35	12	8	12	9	15	
2	1	2	Pha Bang	5	1.5	9.5	9.5	4.5	1	1	1	1	
2	1	3	Chan Cha Mod	3.5	5	19.5	17	6.5	3	1	2	2.5	
2	1	4	Sa Thip	0.1	6.5	10.0	5	4.5	1.5	2.5	2	1	
2	1	5	Mak Fak Dong	1.5	9	19.0	19	5.5	4	0	1.5	3	Leaning tree (N)
2	1	6	F.Rubiaceae	2	8.5	5.0	4	3	1.5	1	1	1	Leaning tree (E)
2	1	7	Hom Klai Dong	5.5	5	16.0	14	3	4	1	2	3	Leaning crown (N)
2	1	8	Hang Nu	7	9	5.8	4.5	3	0.8	0.5	1.5	1	
2	1	9	Mak Fak Dong	7	4	24.6	25	10	5	1	1	1.5	Leaning crown (N)
2	2	1	Lek Ki	10.5	8	18.8	18	9	3	2	1.5	3	
2	2	2	Chan Cha Mod	11.5	7.5	7.0	10	7	2	2	2.5	2.5	
2	2	3	uk2	12	14	31.0	11	1.3	1	0.5	5	2	Leaning crown (E)
2	2	4	Hang Nu	13.5	2	6.7	8	2	2	2	2	2	
2	2	5	Sa Thip	13.5	9.5	10.0	12	9.5	1	2	3	1	Leaning crown (W)

Appendix Table 2 (Continued)

Line	Plot	No.	Species	X	Y	DBH	HT	H1	Crow Cover				Remark
									N	S	E	W	
2	2	6	Wa Hin	14	7	5.0	6	4	1	0.5	0.4	0.5	
2	2	7	uk2	14.5	6	16.2	17	12	1	1	1	4	Leaning crown (W)
2	2	8	F.Annonaceae	16.5	3	5.5	4	3.5	2	1	0.3	0	
2	2	9	Yom Hin	17	7	5.5	4.8	0	0.3	0	1	0.5	Small crown
2	2	10	Chuang Hom	17	7.5	10.6	6	5	0	0	0	0	Broken tree
2	2	11	Mak Fak Dong	18.5	3	12.5	7	4	1	1	0	1	Leaning tree (S)
2	2	12	Ko Riap	20	6	31.3	21	10	5	4	3	4	
2	2	13	Ta Suea	19.5	5	4.6	5	2	0	1	0	1	Leaning crown (W)
2	3	1	Mueat Luang	20.5	4.5	14.1	9	6	1.5	1	3	1	
2	3	2	I Do	23	6	37.9	20	10	4	6	5	5	
2	3	3	Hang Nu	23	6.5	4.7	7	4	1	0	1	1	Small crown
2	3	4	Mueat Luang	27	4	9.5	7	4	1	4	2	1.5	
2	3	5	Hang Nu	27.5	9	20.0	12	7	2	4	3	4	
2	3	6	Phaya Rak Dam	28	1.5	8.7	10	7	1	0.5	0.5	0.5	

Appendix Table 2 (Continued)

Line	Plot	No.	Species	X	Y	DBH	HT	H1	Crow Cover				Remark
									N	S	E	W	
2	3	7	Chan Cha Mod	29	8	6.4	8	2	0.5	0.5	0.5	0.5	
2	3	8	Sa Thip	28.5	1.5	6.0	10	7	1	0	0.5	0.5	Leaning crown (N)
2	4	1	Mueat Luang	30.5	5	20.6	14	10	1	1	3	0	Leaning crown (E)
2	4	2	Kritsana	31.5	9	29.8	13	4	1	3	1.5	1	Leaning crown (S)
2	4	3	Kham Saet	33	7.5	18.5	12	8	0	2	1	1	Leaning crown (S)
2	4	4	Ko Riap	33.5	7.5	9.3	9	4.5	0	2	1	0	
2	4	5	Phaya Rak Dam	34.5	1	7.1	4.5	3	1	0.5	0.5	0.5	
2	4	6	Lam Pang	35	7.5	12.7	15	13	3	0	1	2	
2	4	7	Phaya Rak Dam	36	9	5.0	6	4.5	1	2	1	3	
2	4	8	uk1	37	6	9.0	6	2	2	3	2	1	
2	4	9	Hang Nu	38.5	3.5	9.0	6	3	1	2	2	1	
2	4	10	Chan Cha Mod	39.5	2	26.3	15	9	3	5	5	3	
2	5	1	Chan Cha Mod	40.5	5	12.4	18	14	2	1	2	1	
2	5	2	Yom Hin	42	3	14.5	15	7	1	2	1	3	Leaning crown, tree (S)

Appendix Table 2 (Continued)

Line	Plot	No.	Species	X	Y	DBH	HT	H1	Crow Cover				Remark
									N	S	E	W	
2	5	3	Hang Nu	44.5	9	24.5	17	12	5	5	4	3	
2	5	4	uk1	46	8	11.5	5	3	3	1	3	2	
2	5	5	Tong Tao	45.5	5	8.6	13	10	2	2	2	2	
2	5	6	Chan Cha Mod	50	0.2	21.5	15	4	2	3	1	5	
4	1	1	I Do	0.5	8.5	7.4	4	2	1	0	1	0	
4	1	2	Lam Yai Pa	1.5	1.5	8.0	6	4	1	1	1	2	
4	1	3	Ta Krao Nam	3.5	1.5	14.0	13	11	1.5	2	3	2	
4	1	4	Ta Krao Nam	5.5	1	17.4	13	10	3	2	3	2	
4	1	5	Ta Krao Nam	6.5	1.5	7.9	8	4	1	3	2	1	
4	1	6	Ta Krao Nam	7.5	1	9.9	11	8	1	1	0	2	Leaning crown (W)
4	1	7	Khi Ai	8	1.5	35.2	32	22	6	4	4	4	
4	1	8	Ta Krao Nam	5	9	8.0	5	1.6	3	2	1	2	
4	1	9	Kra Uam	7.5	9.5	7.3	6	0	2	1	0	3	Leaning crown (W)
4	1	10	Khet Nam	8	8	5.4	4	3	0	3	0	0	Leaning crown (S)

Appendix Table 2 (Continued)

Line	Plot	No.	Species	X	Y	DBH	HT	H1	Crow Cover				Remark
									N	S	E	W	
4	1	10	Khet Nam	8	8	6.4	4	1.3	4	2	0	2	Leaning crown (W)
4	1	11	Ta Khian Hin	9	9	47.5	29	10	8	6	6	7	
4	1	12	Ta Krao Nam	9	7.5	10	15	4	3	2	1	2	
4	2	1	Ta Krao Nam	11	7.5	6.0	11	2	2	2	0	3	
4	2	2	Ta Krao Nam	12.5	3	16.5	18	3	4	4	3	3	
4	2	3	Ta Krao Nam	14	6.5	7.5	12	6	2	2	2	1	
4	2	4	Ta Krao Nam	13.5	8.5	5.2	11	4	1	1	0	3	Leaning crown (W)
4	2	5	Ta Krao Nam	16	2.5	17.0	18	12	4	3	3	4	
4	2	6	Ta Baek Plueok Bang	17	3	12.1	19	13	1	1	0.5	1.5	
4	2	7	Khet Nam	18	5	6.0	6	5	2	0	0	3	Leaning crown (W)
4	2	8	Ta Khian Hin	18.5	5.5	36.0	30	10	5	4	5	5	
4	2	9	Sadao Chang	18.5	8	8.0	13	6	0.5	1	0	4	
4	2	10	Ta Krao Nam	19.5	8	18.5	20	9	3	3	4	5	
4	3	1	Ta Khian Hin	20.5	5	19.6	24	17	4	3	1	5	

Appendix Table 2 (Continued)

Line	Plot	No.	Species	X	Y	DBH	HT	H1	Crow Cover				Remark
									N	S	E	W	
4	3	2	Ko Pha	22	9.5	37.5	24	22	0	3	0	2	Leaning tree (W)
4	3	3	Ko Pha	23	2.5	49.0	24	16	1	6	0	4	Leaning crown (W)
4	3	4	Ta Khian Hin	23.5	7.5	25.1	24	16	4	3	4	4	
4	3	5	Sai Den	23	2.5	7.5	12	2	1	2	1	2	Circle crown
4	3	6	Ta Krao Nam	24	8	10.0	14	4	3	1	5	1	
4	3	7	Mahat	25	7	8.7	13	11	0.5	2	0.5	0	
4	3	8	Hang Nu	24.5	9	7.6	10	8	1	1	2	2	
4	3	9	Ta Krao Nam	25	5	12.4	11	0.3	2	3	3	4	
4	3	10	Ta Khian Hin	26.5	9	48.0	28	12	4	5	3	6	
4	3	11	Ta Khian Hin	27	1.5	39.6	26	10	5	5	3	5	
4	3	12	Ta Krao Nam	29.5	0.5	6.4	7	5	1	3	2	1	
4	4	1	Ta Krao Nam	30.5	6	24.5	20	16	4	4	5	5	
4	4	2	Ta Khian Hin	31.5	5.5	20.4	22	14	2	4	1	3	bent tree
4	4	3	Ta Krao Nam	34.5	0.5	7.0	7	2	1	3	3	3	

Appendix Table 2 (Continued)

Line	Plot	No.	Species	X	Y	DBH	HT	H1	Crow Cover				Remark
									N	S	E	W	
4	4	4	Lop Lip	35.5	5	10.5	8	6	2	3	3	4	
4	4	5	Ta Khian Hin	35	9	33.8	25	18	5	5	4	6	
4	4	6	Ta Krao Nam	38	5	14.6	14	8	1	4	2	2	
4	4	7	F. Lauraceae	37	0.5	14.0	15	8	2	3	1	2	
4	5	1	Phaya Rak Dam	40.5	4	7.5	6	4	1	1	0.5	1	
4	5	2	Dalbergia sp.	41.5	4.5	57.0	28	16	5	5	4	7	
4	5	3	Chan Cha Mod	42.5	7.5	8.0	7	5	2	1	3	0	
4	5	4	Ta Krao Nam	44	7	10.5	9	6	1	1	2	1	
4	5	5	Krom Khao	46	9	19.5	15	11	3	2	4	1	
4	5	6	Ta Krao Nam	47.5	6	14.0	13	1.9	3	0	4	2	
4	5	7	Ta Khian Hin	46.5	0.5	54.3	25	6	4	7	6	7	
4	5	8	Wa Khi Kwang	48	3	15.5	13	11	2	1	2	0.5	
4	5	9	Khang Ten	49	2.5	10.5	11	4.5	1	3	2	0	
4	5	10	Sai Krang	49.5	6.5	159.0	32	0	8	8	9	10	

Appendix Table 3 Trees in sample plots

Line	Plot	No.	Species	DBH	HT	Remark
1	1	1	Sai Den	6.4	6	
1	1	2	Fin Ton	8.6	10	Leaning tree (S)
1	1	3	Mak Fak Dong	17.6	13	
1	1	4	Ko Riap	6.7	7	
1	1	5	Sai Den	7.0	8	
1	1	6	Hang Nu	8.8	6.5	
1	1	7	Mada Khi Non	30.3	15	
1	1	8	unknow1	5.2	3	
1	2	1	Song Kra Dong Hin	5.7	5	
1	2	2	Hang Nu	9.4	8	
1	2	3	Ma Puan	10.0	10.5	
1	2	4	Fin Ton	5.1	4	
1	2	5	Sa Thip	4.8	5.5	Leaning crown
1	2	6	Hang Nu	7.5	5.5	
1	2	7	Sai Den	21.0	14	Broken tree
1	2	8	Hom Klai Dong	11.8	9.2	
1	2	9	Sa Thip	7.2	7	
1	3	1	F. Rubiaceae	11.7	8	
1	3	2	Tao Luang	23.0	25	
1	3	3	Ta Khop Thai	6.5	6	
1	3	4	Khao San Su Thep	4.5	5	
1	3	5	Champi Luang	5.6	7.6	
1	3	6	Hang Nu	10.5	9	
1	3	7	Ardisia sp.	7.0	8.5	
1	3	8	Ma Puan	8.0	8.5	

Appendix Table 3 (Continued)

Line	Plot	No.	Species	DBH	HT	Remark
1	3	9	Mafai	4.7	3.5	
1	3	10	Mak Fak Dong	23.1	17	
1	4	1	Yom Hin	9.0	7	
1	4	2	Sai Den	39.5	22	
1	4	3	Phaya Rak Dam	6.7	11	
1	4	4	Radermachera sp.	11.5	13	
1	4	5	Mada Khi Non	32.0	13.5	
1	4	6	Sa Thip	10.0	10.8	
1	4	7	Hang Nu	9.8	8	
1	4	8	Hang Nu	5.1	4	
1	4	9	Mak Fak Dong	12.0	18	
1	4	10	Mak Fak Dong	11.0	11	Leaning tree
1	4	11	Phaya Rak Dam	4.7	3	
1	4	12	Chan Cha Mod	23.8	20	
1	4	13	Phaya Rak Dam	10.3	12	
1	4	14	Mak Fak Dong	12.6	18	
1	5	1	Khao San Su Thep	4.5	5.5	
1	5	2	Pha Sian Doi	15.7	15	
1	5	3	uk 1	10.4	6	
1	5	4	Mafai	12.4	5	
1	5	5	Mueat Luang	6.0	6.5	
1	5	6	Song Kra Dong Hin	5.0	6.5	
1	5	7	I Do	23.0	23	
1	5	8	Hang Nu	8.0	8.5	
1	5	9	Mueat Luang	11.4	14	

Appendix Table 3 (Continued)

Line	Plot	No.	Species	DBH	HT	Remark
1	5	10	Lop Lip	7.7	8.5	
1	5	11	Krai	5.6	5.5	
3	5	1	Ta Khian Hin	46.6	25	
3	5	2	Ta Krao Nam	6.0	6	
3	5	3	F.Lauraceae	30.5	11	
3	5	4	Mao Luang	10.0	11	
3	5	5	Khet Nam	4.5	3	
3	5	5	Khet Nam	5.3	3	
3	5	5	Khet Nam	4.8	3	
3	5	5	Khet Nam	6.1	3	
3	5	6	Khao San Su Thep	6.0	6	
3	5	7	Wa Khi Kwang	6.6	9	
3	5	8	Lan Ngo	8.8	6	
3	5	9	Nam Ma Khet	5.2	4	
3	5	10	Mada Khi Non	18.1	14	
3	5	11	Phaya Rak Dam	6.4	6	
3	4	1	Wa Khi Kwang	12.1	12	
3	4	2	Ta Krao Nam	11.2	4	
3	4	3	Ta Khian Hin	44.4	21	
3	4	4	Ma Puan	7.0	11	
3	4	5	Ta Khian Hin	23.9	22	
3	4	6	Ta Khian Hin	21.7	20	
3	4	7	Ta Krao Nam	9.0	10	
3	4	8	Ta Krao Nam	6.5	9	
3	4	9	Wa Khi Kwang	15.9	15	

Appendix Table 3 (Continued)

Line	Plot	No.	Species	DBH	HT	Remark
3	3	1	Khang Ten	12.3	15	
3	3	2	Ta Krao Nam	13.5	14	
3	3	3	Ta Krao Nam	6.0	6	
3	3	4	Kaew	5.0	6	
3	3	5	Ta Khian Hin	17.7	21	
3	3	6	Ta Krao Nam	12.8	18	
3	4	1	Wa Khi Kwang	13.0	17	
3	4	2	Ta Krao Nam	7.0	8	
3	4	3	Wa Khi Kwang	21.7	20	
3	4	4	Ta Baek Plueok Bang	23.8	28	
3	4	5	Ko Pha	35.0	24	
3	4	6	Fin Ton	13.0	17	
3	4	7	Wa Khi Kwang	5.2	3	
3	4	8	Khem	7.8	7	
3	4	9	Ta Khian Hin	8.2	9	
3	5	1	Ta Krao Nam	11.1	10	
3	5	2	Ta Khian Hin	7.0	9	
3	5	3	Khang Ten	7.0	9	
3	5	4	Ta Khian Hin	6.3	6	
3	5	5	Mada Khi Non	10.2	7	
3	5	6	Som O Phi	15.0	6	
3	5	7	Ta Krao Nam	18.5	15	
3	5	8	Lan Ngo	13.0	16	
3	5	9	I Do	7.2	4.5	
3	5	10	Ta Baek Plueok Bang	18.9	17	

Appendix Table 3 (Continued)

Line	Plot	No.	Species	DBH	HT	Remark
3	5	11	Kaew	6.5	6	
3	5	12	Mada Khi Non	10.6	10	
3	5	13	Krom Khao	17.3	11	

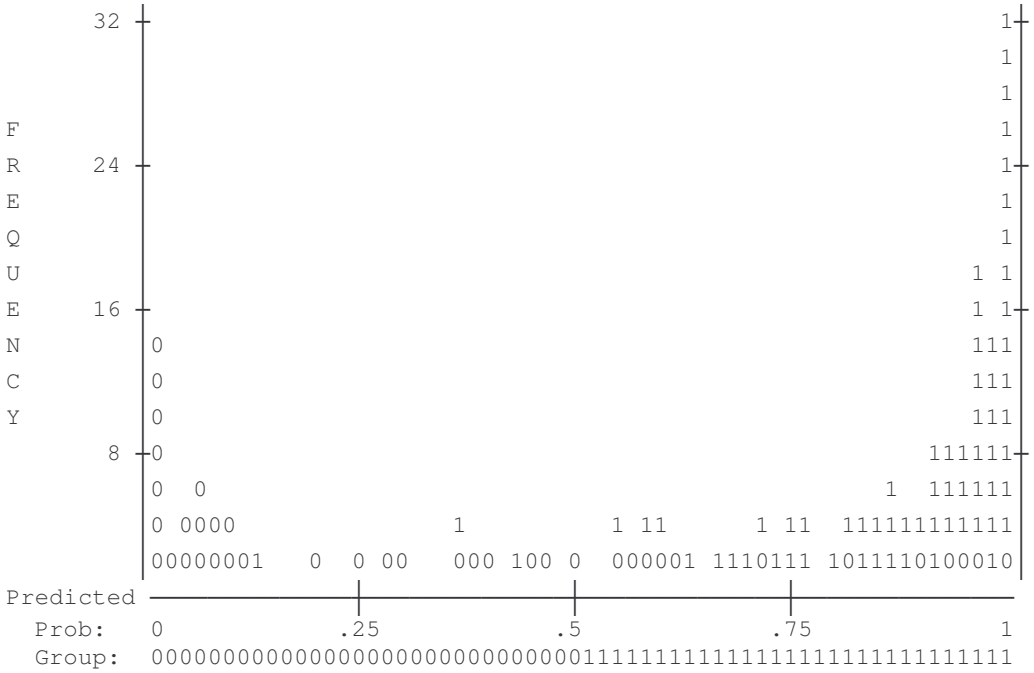
Appendix Table 4 Output from the analyses of logistic multiple regression

```
      Total number of cases:      194 (Unweighted)
      Number of selected cases:   194
      Number of unselected cases: 0

      Number of selected cases:                 194
      Number rejected because of missing data:  0
      Number of cases included in the analysis: 194


Dependent Variable Encoding:

Original       Internal
Value          Value
        0      0
        1      1

                                  Parameter
                   Value   Freq   Coding
                                    (1)    (2)
NEW_LU
                     112    120  1.000   .000
                     113     68   .000  1.000
                     122      6   .000   .000

Variable(s) Entered on Step Number
5..       DIS_ROD

Estimation terminated at iteration number 5 because
Log Likelihood decreased by less than .01 percent.

 -2 Log Likelihood          119.828
 Goodness of Fit            213.679
 Cox & Snell - R^2             .470
 Nagelkerke - R^2              .658

                     Chi-Square     df Significance

 Model                   123.276      6        .0000
 Block                   123.276      6        .0000
 Step                     12.011      1        .0005

Classification Table for VALUE

The Cut Value is .50
                 Predicted
                 0       1      Percent Correct
                  0  |    1
                     |
Observed             |
                     |
   0     0       46  |   16      74.19%
                     |
                     |
   1     1        8  |  124      93.94%
                     |
                     |
                 Overall  87.63%
```

---------- Variables in the Equation ----------

Variable	B	S.E.	Wald	df	Sig	R	Exp(B)
NEW_LU			15.5929	2	.0004	.2184	
NEW_LU(1)	3.0794	1.3365	5.3092	1	.0212	.1167	21.7463
NEW_LU(2)	.5904	1.3931	.1796	1	.6717	.0000	1.8048
DIS_ROD	-.0016	.0005	10.0878	1	.0015	-.1824	.9984
DIS_STRE	-.0070	.0015	21.5076	1	3.52E-06	-.2833	.9930
SLOPE	-.3543	.0765	21.4286	1	3.68e-07	-.2827	.7017
DEM	.0563	.0107	27.8356	1	1.32e-07	.3260	1.0579
Constant	-40.2298	7.8738	26.1052	1	3.23e-07		

Observed Groups and Predicted Probabilities



Predicted Probability is of Membership for 1
The Cut Value is .50
Symbols: 0 - 0
1 - 1
Each Symbol Represents 2 Cases.

---------- Model if Term Removed ----------

Term Removed	Log Likelihood	-2 Log LR	df	Significance of Log LR
NEW_LU	-69.443	19.059	2	.0001
DIS_ROD	-65.920	12.011	1	.0005
DIS_STRE	-75.036	30.244	1	.0000
SLOPE	-76.082	32.336	1	.0000
DEM	-82.005	44.182	1	.0000

No more variables can be deleted or added.

Appendix Figure 1 The histogram of the probability zoning