

BAB V

KESIMPULAN

Dari hasil penelitian maka dapat disimpulkan sebagai berikut :

1. Komunitas Arthropoda lantai hutan yang ada di hutan jati Subah mempunyai perbedaan dalam jumlah individu yang diperoleh dan komposisi anggota Arthropoda yang sesuai dengan kondisi hutan yang ada pada tiap lokasi tersebut.
2. Keanekaragaman Arthropoda dari 4 lokasi (petak 35A, petak 78F, petak 69B dan petak 72A) di hutan jati Subah mempunyai indeks diversitas sangat tinggi.
3. Populasi tertinggi pada tingkat ordo anggota Arthropoda di petak 35A adalah Hymenoptera dengan jumlah rata-rata ordo 61.25, petak 78F Collembola dengan jumlah rata-rata ordo 103.25, petak 69B Collembola dengan jumlah rata-rata ordo 215.75 dan petak 72A Orthoptera dengan jumlah rata-rata ordo 306.

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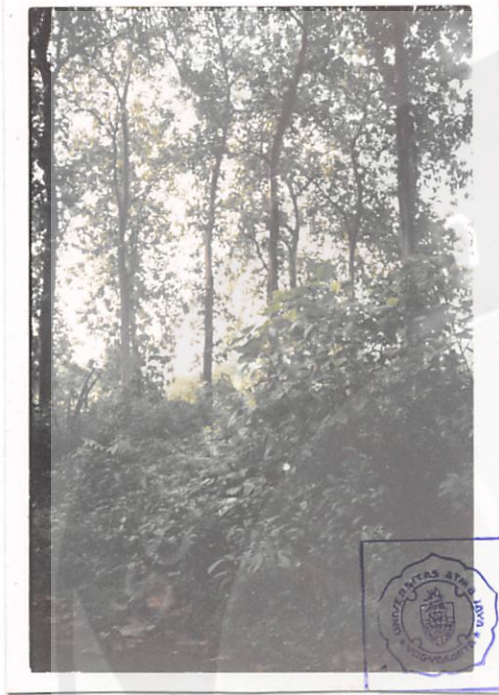
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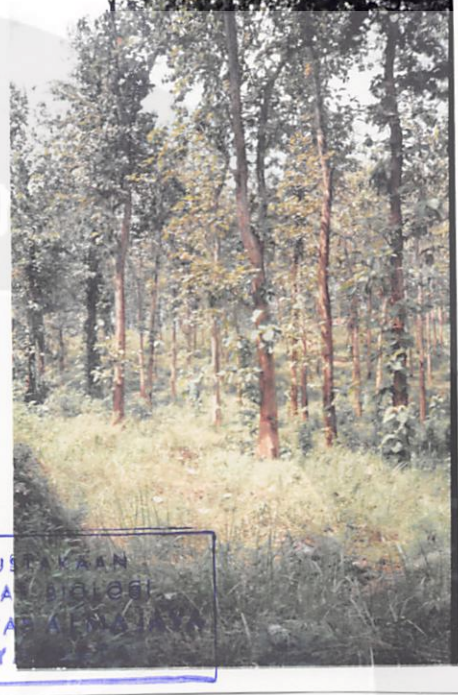


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Gambar 2. Foto Lokasi Penelitian



Gambar A. Petak 35A



Gambar B. Petak 69B



Gambar C. Petak 78F



Gambar D. Petak 72A

Tabel 7. Komposisi tiap ordo anggota Arthropoda yang ada di Hutan Jati Subah

ARTHROPODA (ORDO)	PETAK 35A						PETAK 78C						PETAK 69B						PETAK 72A						JUMLAH TOTAL
	I	II	III	IV	JML	x	I	II	III	IV	JML	x	I	II	III	IV	JML	x	I	II	III	IV	JML	x	
Collembola	32	41	50	61	184	46	19	140	174	80	413	103,25	298	195	167	203	863	215,75	59	325	139	194	717	179,25	2177
Coleoptera	10	4	15	19	48	12	2	7	33	19	61	15,25	5	9	7	17	38	9,5	20	33	13	14	80	20	227
Diptera	7	1	4	3	15	3,75	0	1	3	3	4	1	3	5	3	0	11	2,75	1	1	0	7	9	2,25	39
Diplura	48	50	26	29	153	38,25	20	45	30	35	130	32,5	29	22	53	13	117	29,25	2	7	0	0	9	2,25	409
Hymenoptera	42	113	46	44	245	61,25	27	65	39	59	190	47,5	48	74	77	113	312	78	38	97	39	34	208	52	955
Hemiptera	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	4	5	1,25	1	0	0	10	11	2,75	16
Homoptera	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0,25	1	0	0	0	1	0,25	2
Isoptera	8	1	3	2	14	3,5	0	4	2	5	11	2,75	2	1	4	17	24	6	0	0	0	0	0	0	49
Isopoda	0	0	1	0	1	0,25	0	0	1	6	7	1,75	0	0	0	0	0	0	0	0	0	1	1	0,25	9
Orthoptera	4	5	16	3	28	7	0	35	60	40	135	33,75	5	3	41	145	194	48,5	408	391	193	232	1224	306	1581
Blattaria	0	1	1	1	3	0,75	0	4	10	8	22	5,5	5	1	10	2	18	4,5	0	37	28	43	108	27	151
Araneida	0	5	3	6	14	3,5	3	7	10	8	28	7	4	7	4	5	20	5	5	11	12	6	34	8,5	96
Acarina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0,5	2
Scorpiones	0	1	1	0	2	0,5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Plecoptera	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0,5	2
Lithobiomorpha	0	0	0	0	0	0	0	1	0	0	1	0,25	1	0	0	0	1	0,25	0	0	0	0	0	0	2
Protura	1	0	0	0	1	0,25	1	0	0	0	1	0,25	2	0	0	0	2	0,5	0	0	0	0	0	0	4

Tabel 8. Komposisi tiap familia anggota Arthropoda yang ada di Hutan Jati Subah

ARTHROPODA	PETAK 35A						PETAK 78C						PETAK 69B						PETAK 72A						JUMLAH TOTAL
	I	II	III	IV	Jml	x	I	II	III	IV	Jml	x	I	II	III	IV	Jml	x	I	II	III	IV	Jml	x	
Ordo Collembola																									
Fam : Entomobryidae	25	21	37	37	120	30	17	118	115	60	310	77,5	200	147	136	109	592	148	57	202	85	107	451	112,75	1473
<i>Corynothrix</i>	1	0	5	0	6	1,5	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0,75	9
<i>Entomobrya</i>	9	10	13	9	41	10,25	6	47	29	7	89	22,25	49	70	38	29	186	46,5	8	52	6	18	84	21	400
<i>Lepidocyrtus</i>	10	7	12	23	52	13	3	36	59	8	106	26,5	66	35	42	29	172	43	14	32	0	12	58	14,5	388
<i>Pseudosinella</i>	3	1	2	3	9	2,25	3	8	0	9	20	5	13	10	8	12	43	10,75	10	50	5	44	109	27,25	181
<i>Sinella</i>	0	0	0	0	0	0	0	0	0	0	0	0	4	10	2	2	18	4,5	7	12	9	0	28	7	46
<i>Seira</i>	1	2	4	2	9	2,25	0	23	25	5	53	13,25	35	4	19	28	86	21,5	15	47	57	32	151	37,75	299
<i>Tomocerus</i>	1	0	0	0	1	0,25	5	4	1	25	35	8,75	23	10	15	2	50	12,5	3	2	4	0	9	2,25	95
<i>Willowsia</i>	0	1	1	0	2	0,5	0	0	1	4	5	1,25	9	8	10	6	33	8,25	0	4	4	1	9	2,25	49
<i>Harfoniella</i>	0	0	0	0	0	0	0	0	0	2	2	0,5	1	0	0	1	2	0,5	0	0	0	0	0	0	4
<i>Orchesella</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0,5	0	0	0	0	0	0	2
Fam : Hypogastruridae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	3	7	12	3	12
<i>Paranura</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	3	0,75	3
<i>Schaefferia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	7	7	1,75	7
<i>Odontella</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	2	0,5	2
Fam : Isotomidae	7	20	12	23	62	15,5	1	22	58	20	101	25,25	97	48	26	94	265	66,25	0	121	50	67	238	59,5	666
<i>Isotoma</i>	2	5	7	15	29	7,25	0	17	13	15	45	11,25	66	17	11	77	171	42,75	0	63	27	44	134	33,5	379
<i>Isotomurus</i>	3	11	3	6	23	5,75	1	2	27	3	33	8,25	17	23	5	9	54	13,5	0	10	5	0	15	3,75	125
<i>Anurophorus</i>	2	4	2	2	10	2,5	0	3	18	2	23	5,75	14	8	10	8	40	10	0	48	18	23	89	22,25	162
Fam : Onychiuridae	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0,25	0	0	0	3	3	0,75	4
<i>Lophognathella</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	3	0,75	3
<i>Onychiurus</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0,25	0	0	0	0	0	0	1
Fam : Sminthuridae	0	0	1	1	2	0,5	1	0	1	0	2	0,5	0	0	5	0	5	1,25	0	2	1	10	13	3,25	22
<i>Neominthurus</i>	0	0	0	1	1	0,25	0	0	0	0	0	0	0	0	5	0	5	1,25	0	2	1	10	13	3,25	19
<i>Sminthurus</i>	0	0	1	0	1	0,25	1	0	1	0	2	0,5	0	0	0	0	0	0	0	0	0	0	0	0	3
Ordo Coleoptera																									
Fam : Mordellidae	0	1	0	0	1	0,25	0	3	0	1	4	1	0	0	1	2	3	0,75	0	10	0	2	12	3	20
Fam : Tenebrionidae	7	3	13	5	28	7	1	2	28	3	34	8,5	3	7	5	9	24	6	10	18	4	7	39	9,75	125
<i>Tribolium confosum</i>	6	3	13	5	27	6,75	0	2	28	3	33	8,25	3	7	5	9	24	6	10	18	4	7	39	9,75	123
<i>Alobates</i>	1	0	0	0	1	0,25	1	0	0	0	1	0,25	0	0	0	0	0	0	0	0	0	0	0	0	2
Fam : Hydrophyllidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	0,5	2
Fam : Latrididae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0,5	2

ARTHROPODA	PETAK 35A						PETAK 78C						PETAK 69E						PETAK 72A						JUMLAH TOTAL
	I	II	III	IV	Jml	x	I	II	III	IV	Jml	x	I	II	III	IV	Jml	x	I	II	III	IV	Jml	x	
Fam : Drosophilidae	0	0	0	0	0	0	0	0	1	0	1	0,25	0	0	0	0	0	0	0	0	0	5	5	1,25	6
<i>Drosophylla</i>	0	0	0	0	0	0	0	0	1	0	1	0,25	0	0	0	0	0	0	0	0	0	5	5	1,25	6
Fam : Pipunculidae	0	0	0	0	0	0	0	0	0	2	2	0,5	0	0	0	0	0	0	0	0	0	0	0	0	2
Fam : Anthomyzidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0,5	2
Ordo Homoptera																									
Fam : Adelgidae	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0,25	1	0	0	0	1	0,25	2
Ordo Diplura																									
Fam : Campodeidae	6	1	0	0	7	1,75	0	0	0	0	0	0	1	1	0	0	2	0,5	0	2	0	0	2	0,5	11
<i>Campodea folsomi</i>	6	1	0	0	7	1,75	0	0	0	0	0	0	1	1	0	0	2	0,5	0	2	0	0	2	0,5	11
Fam : Japygidae	42	49	26	29	146	36,5	5	35	13	15	68	17	28	21	53	13	115	28,75	2	5	0	0	7	1,75	336
<i>Holojapyx</i>	42	49	26	29	146	36,5	5	35	13	15	68	17	28	21	53	13	115	28,75	2	5	0	0	7	1,75	336
Fam : Anajapygidae	0	0	0	0	0	0	15	10	17	20	62	15,5	0	0	0	0	0	0	0	0	0	0	0	0	62
<i>Anajapyx</i>	0	0	0	0	0	0	15	10	17	20	62	15,5	0	0	0	0	0	0	0	0	0	0	0	0	62
Ordo Hymenoptera																									
Fam : Formicidae	42	113	46	42	243	60,75	27	65	39	59	190	47,5	48	73	77	112	310	77,5	38	96	39	34	207	51,75	950
Fam : Myrmaridae	0	0	0	2	2	0,5	0	0	0	0	0	0	0	1	0	1	2	0,5	0	1	0	0	1	0,25	5
Ordo Hemiptera																									
Fam : Pyrrhocoridae	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	4	5	1,25	0	0	0	10	10	2,5	15
<i>Dicyrtoma</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	4	5	1,25	0	0	0	10	10	2,5	15
Fam : Alydidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0,25	1
<i>Alydus eurinus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0,25	1
Ordo Isoptera																									
Fam : Rhinotermitidae	3	1	2	2	8	2	0	3	2	5	10	2,5	1	1	4	17	23	5,75	0	0	0	0	0	0	41
Fam : Termitidae	5	0	1	0	6	1,5	0	1	0	0	1	0,25	1	0	0	0	1	0,25	0	0	0	0	0	0	8
Ordo Isopoda																									
Fam : Oniscidae	0	0	1	0	1	0,25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Cylisticus</i>	0	0	1	0	1	0,25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Fam : Oniscoidea	0	0	0	0	0	0	0	0	1	6	7	1,75	0	0	0	0	0	0	0	0	1	1	0,25	8	
<i>Oniscus asellus</i>	0	0	0	0	0	0	0	0	1	6	7	1,75	0	0	0	0	0	0	0	0	1	1	0,25	8	
Ordo Protura																									
Fam : Acerentomidae	1	0	0	0	1	0,25	1	0	0	0	1	0,25	2	0	0	0	2	0,5	0	0	0	0	0	0	4
<i>Acerentulus</i>	1	0	0	0	1	0,25	1	0	0	0	1	0,25	2	0	0	0	2	0,5	0	0	0	0	0	0	4

ARTHROPODA	PETAK 35A						PETAK 78C						PETAK 69B						PETAK 72A						JUMLAH TOTAL
	I	II	III	IV	Jml	x	I	II	III	IV	Jml	x	I	II	III	IV	Jml	x	I	II	III	IV	Jml	x	
Ordo Orthoptera																									
Fam : Gryllidae	4	5	15	3	27	6,75	0	35	60	38	133	33,25	5	3	40	145	193	48,25	408	391	193	232	1224	306	1577
Fam : Tettigoniidae	0	0	1	0	1	0,25	0	0	0	1	1	0,25	0	0	1	0	1	0,25	0	0	0	0	0	0	3
Fam : Acrididae	0	0	0	0	0	0	0	0	0	1	1	0,25	0	0	0	0	0	0	0	0	0	0	1	0	1
Ordo Blattaria																									
Fam : Blattellidae	0	0	1	1	3	0,5	0	0	3	8	11	2,75	1	0	10	2	13	3,25	0	22	28	41	91	22,75	117
<i>Parcobiatta</i>	0	0	1	1	2	0,5	0	0	3	8	11	2,75	1	0	10	2	13	3,25	0	22	28	41	91	22,75	117
Fam : Blattidae	0	1	0	0	1	0,25	0	4	7	0	11	2,75	4	1	0	0	5	1,25	0	15	0	2	17	4,25	34
<i>Blatta orientalis</i>	0	1	0	0	1	0,25	0	4	7	0	11	2,75	4	1	0	0	5	1,25	0	15	0	2	17	4,25	34
Ordo Araneida																									
Fam : Lycosidae	0	0	0	4	4	1	2	1	10	4	17	4,25	0	0	2	1	3	0,75	3	3	4	3	13	3,25	37
<i>Lycosa</i>	0	0	0	4	4	1	2	1	10	4	17	4,25	0	0	2	1	3	0,75	3	3	4	3	13	3,25	37
Fam : Oxyopidae	0	0	0	1	1	0,25	0	0	0	0	0	0	0	0	0	4	4	1	0	2	0	2	4	1	9
<i>Oxyopes</i>	0	0	0	1	1	0,25	0	0	0	0	0	0	0	0	0	4	4	1	0	2	0	2	4	1	9
Fam : Salticidae	0	5	2	0	7	1,75	1	6	0	3	10	2,5	2	7	2	0	11	2,75	2	6	5	1	14	3,5	42
<i>Phidippus</i>	0	5	1	0	6	1,5	1	6	0	3	10	2,5	2	7	2	0	11	2,75	2	6	5	1	14	3,5	41
<i>Plexippus</i>	0	0	1	0	1	0,25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Fam : Thomisidae	0	0	1	1	2	0,5	0	0	0	1	1	0,25	2	0	0	0	2	0,5	0	0	3	0	3	0,75	8
<i>Thomisus</i>	0	0	1	1	2	0,5	0	0	0	1	1	0,25	2	0	0	0	2	0,5	0	0	3	0	3	0,75	8
Ordo Acarina																									
Fam : Tetranychidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0,5	2
<i>Tetranychus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0,5	2
Ordo Scorpiones																									
Fam : Scorpionidae	0	1	1	0	2	0,5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
<i>Scorpion</i>	0	1	1	0	2	0,5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Ordo Plecoptera																									
Fam : Taeniopterygidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0,5	2
<i>Oemopteryx gracialis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0,5	2
Ordo Lithobiomorpha																									
Fam : Lithobiidae	0	0	0	0	0	0	0	1	0	0	1	0,25	1	0	0	0	1	0,25	0	0	0	0	0	0	2
<i>Lithobius</i>	0	0	0	0	0	0	0	1	0	0	1	0,25	1	0	0	0	1	0,25	0	0	0	0	0	0	2

Tabel 9. Indeks Diversitas Simpson Arthropoda Lantai Hutan di Hutan Jati Subah

ARTHROPODA (FAMILIA)	pi				(pi) ²			
	Petak 35A	Petak 78F	Petak 69B	Petak 72A	Petak 35A	Petak 78F	Petak 69B	Petak 72A
Collembola								
Entomobryidae	0,0209	0,0541	0,1034	0,0788	0,0004368	0,0029268	0,0106916	0,0062094
Hypogastruridae	0	0	0	0,0021	0	0	0	0,0000044
Isotomidae	0,0108	0,0176	0,0463	0,0416	0,0001166	0,0003098	0,0021437	0,0017306
Onychiuridae	0	0	0,0002	0,0005	0	0	0,0000001	0,0000003
Sminthuridae	0,0003	0,0003	0,0009	0,0023	0,0000001	0,0000001	0,0000001	0,0000053
Coleoptera								
Mordellidae	0,0002	0,0007	0,0005	0,0021	0,0000001	0,0000005	0,0000003	0,0000044
Tenebrionidae	0,0049	0,0059	0,0042	0,0068	0,0000240	0,0000348	0,0000176	0,0000462
Hydrophilidae	0	0	0	0,0003	0	0	0	0,0000001
Lathridiidae	0	0	0	0,0003	0	0	0	0,0000001
Silphidae	0	0,0005	0	0,0002	0	0,0000003	0	0,0000001
Heteroceridae	0	0	0	0,0003	0	0	0	0,0000001
Cleridae	0	0	0	0,0010	0	0	0	0,0000001
Meloidae	0,0003	0,0002	0	0	0,0000001	0,0000001	0	0
Carabidae	0	0,0002	0	0	0	0,0000001	0	0
Staphylinidae	0,0020	0,0026	0,0010	0,0024	0,0000040	0,0000068	0,0000010	0,0000058
Scarabaeidae	0,0009	0,0005	0	0	0,0000008	0,0000003	0	0
Aseminae	0,0002	0	0	0	0,0000001	0	0	0
Leiodidae	0	0	0,0003	0	0	0	0,0000001	0
Sphecidae	0	0	0,0002	0	0	0	0,0000001	0
Chrysomelidae	0	0	0,0002	0	0	0	0,0000001	0
Geotrupinae	0	0	0,0002	0	0	0	0,0000001	0
Nitidulidae	0	0	0	0,0002	0	0	0	0,0000001
Halticidae	0	0	0	0,0002	0	0	0	0,0000001
Diptera								
Dolichopodidae	0,0010	0,0002	0,0002	0,0002	0,0000001	0,0000001	0,0000014	0,0000001
Pyrgotidae	0	0	0	0,0002	0	0	0	0,0000001
Asilidae	0,0003	0	0	0	0,0000001	0	0	0
Phoridae	0,0010	0,0002	0,0003	0	0,0000010	0,0000001	0,0000001	0
Rhagionidae	0,0002	0	0,0002	0	0,0000001	0	0,0000001	0
Drosophilidae	0	0	0,0002	0,0009	0	0	0,0000001	0,0000001
Pipunculidae	0	0,0003	0	0	0	0,0000001	0	0
Anthomyzidae	0	0	0	0,0003	0	0	0	0,0000001

ARTHROPODA (FAMILIA)	pi				(pi) ²			
	Petak 35A	Petak 78F	Petak 69B	Petak 72A	Petak 35A	Petak 78F	Petak 69B	Petak 72A
Diplura								
Campodeidae	0,0012	0	0,0003	0,0003	0,0000014	0	0,0000001	0,0000001
Japygidae	0,0255	0,0119	0,0201	0,0012	0,0006503	0,0001416	0,0004040	0,0000014
Anajapygidae	0	0,0108	0	0	0	0,0001166	0	0
Hymenoptera								
Formicidae	0,0424	0,0332	0,0541	0,0362	0,0017978	0,0011022	0,0029268	0,0013104
Mymaridae	0,0003	0	0,0003	0,0002	0,0000001	0	0,0000001	0,0000001
Hemiptera								
Pyrrhocoridae	0	0	0,0009	0,0020	0	0	0,0000008	0,0000040
Alydidae	0	0	0	0,0002	0	0	0	0,0000001
Homoptera								
Adelgidae	0	0	0,0002	0,0002	0	0	0,0000001	0,0000001
Isoptera								
Rhinotermitidae	0,0014	0,0020	0,0040	0	0,0000020	0,0000040	0,0000160	0
Termitidae	0,0010	0,0002	0,0002	0	0,0000010	0,0000001	0,0000001	0
Isopoda								
Oniscidae	0,0002	0	0	0	0,0000001	0	0	0
Oniscoidea	0	0,0012	0	0,0002	0	0,0000014	0	0,0000001
Orthoptera								
Gryllidae	0,0047	0,0232	0,0337	0,2139	0,0000221	0,0005382	0,0011357	0,0457532
Tettigoniidae	0,0002	0,0002	0,0002	0	0,0000001	0,0000001	0,0000001	0
Acrididae	0	0,0002	0	0	0	0,0000001	0	0
Blattaria								
Blattellidae	0,0003	0,0019	0,0023	0,0159	0,0000001	0,0000036	0,0000053	0,0002528
Blattidae	0,0002	0,0019	0,0009	0,0029	0,0000001	0,0000036	0,0000008	0,0000084
Araneida								
Lycosidae	0,0007	0,003	0,0005	0,0023	0,0000005	0,0000090	0,0000003	0,0000053
Oxyopidae	0,0002	0	0,0007	0,0007	0,0000001	0	0,0000005	0,0000005
Salticidae	0,0012	0,002	0,0002	0,0024	0,0000014	0,0000040	0,0000040	0,0000056
Thomisidae	0,0003	0,0002	0,0003	0,0005	0,0000001	0,0000001	0,0000001	0,0000003
Acarina								
Tetranychidae	0	0	0	0,0003	0	0	0	0,0000001
Scorpiones								
Scorpionidae	0,0003	0	0	0	0,0000001	0	0	0

ARTHROPODA (FAMILIA)	pi				(pi) ²			
	Petak 35A	Petak 78F	Petak 69B	Petak 72A	Petak 35A	Petak 78F	Petak 69B	Petak 72A
Plecoptera								
Taeniopterygidae	0	0	0	0,0002	0	0	0	1
Lithobiomorpha								
Lithobiidae	0	0,0002	0,0002	0	0	0,0000001	0,0000001	0
Protura								
Acerentomidae	0,0002	0,0002	0,0003	0	0,0000001	0,0000001	0,0000001	0