

Appendix 2. Site, year, and interaction contribution matrices. Contributions >0.01 are shown in boldface

Site contribution matrices

Homegarden-1											
$\lambda=1.007$	SD	SA1	SA2	SA3	J1	J2	J3	J4	A1	A2	A3
SD	0.0069	0.0002						0.0000	0.0010	-	0.0125
SA1	-	0.0133	-							0.0002	
SA2	0.0060	3	0.0002								
SA3	0.0016	-	0.0063	0.0005							
J1		0.0162									
J2		0.0009	-	0.0057							
J3			0.0131		-	0.0082					
J4				-	0.0140						
A1						-	0.0061				
A2						0.0105					
A3							-	0.0106			
							0.0195				
								-	0.0106		
								0.0060	0.0023		
									-		
								0.0039	0.0124		
									0.0029	-	
										0.0073	
										-	-0.0023
											0.0126

Homegarden-2											
$\lambda=1.092$	SD	SA1	SA2	SA3	J1	J2	J3	J4	A1	A2	A3
SD	0.0016	0.0004						0.0000	0.0101	0.0096	-
SA1	0.0141	-	-						1	6	0.0079
SA2	0.0011	0.0036	0.0010								
SA3		0.0035	0.0074	0.0010							
J1		0.0004	0.0099	0.0038							
J2			9		-	-					
J3				-	0.0111	0.0001					
J4					1						
A1					0.0002	0.0104					
A2						4					
A3							-	0.005			
							0.0100				
								0.0024			
									0.0070		
								0.0091	0.0095		
									-	0.0087	
									0.0026		
										-	
											-
										0.0044	0.0006

Pastureland											
$\lambda=1.017$	SD	SA1	SA2	SA3	J1	J2	J3	J4	A1	A2	A3
SD	- 0.0090	- 0.0001						0.0000	- 0.0055	- 0.0061	- 0.015 1
SA1	- 0.014 6	- 0.0045	0.0032								
SA2	- 0.0034	0.0072	- 0.0003	0.0021							
SA3		0.0001	- 0.0049	0.0023							
J1				- 0.012 1	- 0.0001						
J2					0.0001	- 0.0069 0.009 6					
J3							- 0.0016				
J4							0.009 5	0.0066			
A1								- 0.0089	0.0049		
A2									0.0008	0.010 9	
A3										- 0.0087	0.0052

Milpa											
$\lambda=1.072$	SD	SA1	SA2	SA3	J1	J2	J3	J4	A1	A2	A3
SD	0.0076	- 0.0003						0.0000	- 0.0061	- 0.0033	- 0.0070
SA1	0.0014	- 0.0024	- 0.0015								
SA2	0.0002	0.0070	0.0025	- 0.0016							
SA3		- 0.0010	0.0057	- 0.0088 0.020 3							
J1					- 0.0062 0.0085						
J2						- 0.0037 0.0065					
J3							- 0.009 7				
J4							- 0.017 0	0.0041			
A1								0.0036	0.0082		
A2									- 0.0023	- 0.0066	
A3										0.016 9	0.0004

2000											
$\lambda=1.045$	SD	SA1	SA2	SA3	J1	J2	J3	J4	A1	A2	A3
SD	0.0017	-						0.0000	-	0.0033	-
		0.0002							0.0055		0.016
											3
SA1	-	-	0.0001								
	0.0014	0.0014									
SA2	-	-	-	0.0024							
	0.0012	0.0001	0.0075								
SA3		0.0013	0.0070	-							
				0.0048							
J1				-	0.0072						
				0.0013							
J2					-	0.0037					
					0.010						
					2						
J3						-	0.0057				
						0.0008					
J4							0.0011	0.0038			
A1								-	0.0071		
								0.0084			
A2									-	0.0079	
									0.0012		
A3										-	0.0002
										0.0027	

Site x year contribution matrices (1998)

Homegarden -1											
$\lambda=1.017$	SD	SA1	SA2	SA3	J1	J2	J3	J4	A1	A2	A3
SD	-	0.0002						0.0000	-	0.0008	-0.0030
	0.0027								0.0037		
SA1	-	0.0002	0.0009								
	0.0038										
SA2	-	-	-	0.0015							
	0.0058	0.0084	0.0057								
SA3		-	-	-							
		0.0030	0.0022	0.010							
				3							
J1				0.0087	0.0046						
J2					-	-					
					0.0087	0.0074					
J3						0.016	0.010				
						2	8				
J4							-	0.0036			
							0.0028				
A1								0.0042	0.0092		
A2									0.0000	0.016	
										4	
A3										-	0.0002
										0.0063	

Homegarden-2											
$\lambda=1.087$	SD	SA1	SA2	SA3	J1	J2	J3	J4	A1	A2	A3
SD	0.0057	0.0002						0.0000	0.0085	-	-
										0.0024	0.0068
SA1	-	-	-								
	0.023	0.0036	0.0012								
	8										
SA2	-	0.0096	0.0021	-							
	0.0061			0.0005							
SA3		-	0.0040	0.0056							
		0.0014									
J1				0.0024	0.0005						
J2					-	0.0058					
					0.0007						
J3						-	0.0069				
						0.0055					
J4							0.0066	0.0034			
A1								0.0007	-		
									0.013		
									4		
A2									0.0034	-	
										0.0067	
A3										-	0.0001
										0.0002	

Site x year contribution matrices (1999)

Homegarden-1											
$\lambda=0.967$	SD	SA1	SA2	SA3	J1	J2	J3	J4	A1	A2	A3
SD	0.0048	-						0.0000	0.0051	0.0034	-0.0012
SA1	-	0.0002	-								
SA2	0.0116	0.0018	0.0006								
SA3	0.0003	-	0.0025	-							
J1		0.0006		0.0010	0.0149						
J2				0.0040	-	0.0010					
J3					0.0133	-	0.0027				
J4						0.0093	-	0.0078			
A1							0.0094	-	0.0001		
A2								0.0037	-	0.0014	
A3									0.0090	-	-0.0003
										0.0010	

Homegarden-2											
$\lambda=1.087$	SD	SA1	SA2	SA3	J1	J2	J3	J4	A1	A2	A3
SD	-	-						0.0000	-	-	-
SA1	0.0069	0.0006							0.0147	0.0146	0.0061
SA2	0.0048	-	0.0011								
SA3	0.0031	0.0014	-	0.0006							
J1		0.0033	0.0082	0.0027							
J2		-	0.0112	0.0027	-						
J3		0.0004	0.0059		0.0043	-					
J4				0.0059	0.0067	-					
A1						0.0007	-				
A2						0.0017	-				
A3							0.0053	-			
								0.0027			
								-	0.0027		
								0.0024			
									0.0103	0.0151	
									-	0.0069	
									0.0034	-	-
										0.0042	0.0002

Pastureland											
$\lambda=1.045$	SD	SA1	SA2	SA3	J1	J2	J3	J4	A1	A2	A3
SD	-	0.0003						0.0000	0.0041	0.0030	0.0054
	0.0007										
SA1	0.0012	0.0013	-								
			0.0019								
SA2	-	0.0014	0.011	-							
	0.0015		0	0.0024							
SA3		0.0000	-	0.014							
			0.011	7							
			6								
J1				-	-						
				0.013	0.0042						
				9							
J2					0.0052	-					
						0.0053					
J3						0.0066	-				
							0.012				
							1				
J4							0.0062	0.0029			
A1								0.0074	0.0071		
A2									0.0064	0.0060	
A3										0.0003	-
											0.0013

Milpa											
$\lambda=1.040$	SD	SA1	SA2	SA3	J1	J2	J3	J4	A1	A2	A3
SD	0.0010	0.0003						0.0000	0.0041	0.0023	-
											0.016
											0
SA1	-	-	0.0013								
	0.010	0.0003									
	0										
SA2	-	-	-	0.0023							
	0.0054	0.0050	0.0029								
SA3		0.0010	-	-							
			0.0043	0.0067							
J1				-	0.0038						
				0.0025							
J2					-	0.011					
					0.0052	1					
J3						-	0.020				
						0.012	6				
						1					
J4							-	0.014			
							0.0038	8			
A1								-	0.0048		
								0.022			
								1			
A2									0.0096	0.0062	
A3										-	0.0000
										0.0019	

Pastureland											
$\lambda=1.000$	SD	SA1	SA2	SA3	J1	J2	J3	J4	A1	A2	A3
SD	0.0007	0.0002						0.0000	0.0060	-	0.0145
SA1	0.0008	-	0.0005							0.0016	
SA2	0.0012	0.0018	-	0.0036							
SA3		0.0006	0.0019	-							
J1		0.0022	0.0008	0.0028	-						
J2				0.0119	0.0017						
J3					0.0035	0.0027					
J4						0.0054	0.0004				
A1							0.0086	0.0044			
A2								0.0036	0.0019	-	
A3									0.0102	0.0088	
										0.0042	0.0029

Milpa											
$\lambda=1.071$	SD	SA1	SA2	SA3	J1	J2	J3	J4	A1	A2	A3
SD	0.0013	0.0003						0.0000	0.0037	-	0.0027
SA1	-	-	0.0000							0.0056	
SA2	0.0082	0.0004	-								
SA3	0.0026	0.0076	0.0050	0.0024							
J1		0.0011	0.0076	0.0021	0.0057	0.0115					
J2					0.0199	-	0.0066				
J3						0.0070	0.0144				
J4							0.0088	-			
A1								0.0089	0.0158	-	
A2									0.0119	-	
A3									0.0071	0.0011	-
										0.0070	0.0009