

ONLINE APPENDIX SUPPLEMENT
to article in

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Union Members and Voluntary Associations:
Membership Overlap as a Case of Organizational Embeddedness

Benjamin Cornwell
University of Chicago

Jill Ann Harrison
Ohio State University

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Table A1. Interorganizational Affiliation Matrix for Individuals in the General Social Survey, 1974-1994

Organization Type	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
1. Church	11,893															
2. Sports	2,390	3,522														
3. Professional	1,847	919	2,619													
4. Union	1,532	664	318	2,497												
5. School	1,967	920	782	378	2,455											
6. Other	1,305	447	387	247	345	1,878										
7. Fraternal	1,244	523	521	394	328	246	1,777									
8. Service	1,352	684	656	254	569	297	486	1,774								
9. Youth	1,424	921	508	304	834	246	304	468	1,748							
10. Hobby	1,228	668	447	259	437	281	293	406	353	1,697						
11. Literary	1,228	560	701	183	556	306	267	481	398	467	1,629					
12. Veteran	859	357	215	316	172	152	349	310	172	174	126	1,300				
13. Greek	653	361	455	120	293	136	306	278	204	180	246	90	860			
14. Political	538	283	292	144	240	145	184	245	192	169	240	114	123	738		
15. Farm	512	227	135	97	170	102	139	134	153	152	110	104	65	76	689	
16. National	471	199	242	115	190	111	146	139	138	128	168	79	106	93	45	602

Note: N = 18,263. Off-diagonal cells contain raw counts of co-memberships. Cells on the diagonal reflect the total number of people in that type of organization. Organizations are listed in order of membership rate, with the most popular listed first.

Table A2. The Embeddedness of Unions by Region and Time Period

Indicator	Positional Embeddedness				Structural Embeddedness				People in Network (n)
	Power Centrality ^c	Scaled Value ^b	Relative to Others ^c	Unions' Rank ^d	Aver. Proportion of Co-memberships ^a	Scaled Value ^b	Relative to Others ^c	Unions' Rank ^d	
Region									
Northeast	.89	.72	.94	11	.24	.33	.89	13	3,694
Midwest	.89	.69	.88	13	.23	.31	.82	13	5,125
West	.80	.64	.78	16	.19	.30	.66	16	3,276
South	.71	.57	.71	16	.17	.22	.60	16	6,168
Time Period									
Mid-late 1970s	.83	.66	.83	13	.21	.29	.75	15	5,829
Early-mid 1980s	.82	.65	.81	14	.20	.28	.72	14	4,394
Mid-late 1980s	.85	.68	.87	13	.21	.28	.75	15	5,132
Early-mid 1990s	.77	.61	.79	14	.18	.25	.66	16	2,908
Overall	.83	.65	.83	13	.20	.28	.72	15	18,263

^a The number of members unions share with other organizations divided by the number possible, and averaged over all pairs.

^b Scaled by dividing by the raw embeddedness value of unions by the raw value of the most embedded organization type (church).

^c Ratio of union embeddedness to other organizations (excluding churches).

^d Indicates union embeddedness rank relative to other organizations (1 = most, 16 = least).

^e This is the raw value is output by Ucinet 6 (see Borgatti, Everett, and Freeman 2002).

Table A3. Changes in the Distribution of Interorganizational Ties, Late 1970s Early 1990s

Organization	Membership Rate		Proportion of Union Members Who are in this Organization ^a		Proportion of Non Union Members Who are in this Organization ^b	
	1970s	1990s ^c	1970s	1990s ^c	1970s	1990s ^c
Church	.64	.63	.13	.09***	.59	.60
Sports	.19	.19	.13	.09**	.16	.18*
Professional	.12	.17***	.06	.08*	.13	.17***
School	.15	.15	.08	.09	.14	.14
Other	.10	.11	.05	.07	.10	.10
Fraternal	.11	.09*	.11	.10	.10	.08*
Service	.09	.11**	.06	.06	.09	.11*
Youth	.10	.10	.08	.07	.09	.09
Hobby	.09	.11**	.06	.06	.09	.11*
Literary	.09	.10	.04	.05	.10	.10
Veteran	.08	.07	.10	.08	.06	.06
Greek	.04	.05	.03	.03	.04	.05
Political	.04	.04	.05	.04	.04	.04
Farm	.04	.04	.04	.03	.04	.04
National	.03	.05***	.03	.05	.03	.04***

Note: Organizations are listed in order of membership rate, with the most popular listed first.

^a Expressed as a proportion of those who either are union members or are members of this org.

^b Expressed as a proportion of those who either are *not* union members or are members of this org.

^c Chi square is used to test significance of differences from 1970s (χ^2 values available upon request).

* $p < .05$, ** $p < .01$, *** $p < .001$