	20% CS								
Dataset	PCCC	PCCC-N2-S	PCCC-N5-S	PCCC-N2-S-RD	COPKM	CSC	DILS	LCC	KMEANS
n500-k2	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	25
n500-k5	**0**	**0**	**0**	**0**	**0**	485	33	4	363
n500–k10	**0**	**0**	**0**	**0**	**0**	95	97	151	73
n500-k20	**0**	13	1	**0**	–	53	42	76	123
n500-k50	**0**	1	**0**	**0**	**0**	10	9	26	59
n500-k100	**0**	**0**	**0**	**0**	**0**	8	4	13	48
n1000-k2	**0**	**0**	**0**	**0**	**0**	**0**	**0**	–	89
n1000-k5	**0**	**0**	**0**	**0**	**0**	1,629	631	**0**	489
n1000-k10	**0**	**0**	**0**	**0**	**0**	410	1,026	470	525
n1000-k20	**0**	80	**0**	**0**	–	204	407	448	481
n1000-k50	**0**	31	1	**0**	–	121	133	224	262
n1000-k100	**0**	2	**0**	**0**	**0**	43	62	73	149
n2000-k2	**0**	**0**	**0**	**0**	–	**0**	**0**	–	630
n2000-k5	**0**	**0**	**0**	**0**	**0**	5,967	9,325	–	4,480
n2000-k10	**0**	**0**	**0**	**0**	**0**	1,250	5,650	969	1,597
n2000-k20	**0**	699	**0**	**0**	**0**	853	2,713	2,382	1,832
n2000-k50	**0**	311	18	17	–	452	998	1,094	1,091
n2000-k100	**0**	78	**0**	2	**0**	239	480	466	645
n5000-k2	**0**	**0**	**0**	**0**	–	**0**	74,499	–	1,961
n5000-k5	**0**	**0**	**0**	**0**	–	26,882	75,607	–	10,599
n5000-k10	**0**	**0**	**0**	**0**	–	12,430	41,966	–	8,869
n5000-k20	**0**	3,188	**0**	**0**	–	6,276	21,629	–	11,424
n5000-k50	**0**	1,168	**0**	**0**	**0**	2,911	8,835	–	6,110
n5000-k100	**0**	1,036	234	188	–	1,626	4,359	–	4,010
Mean	**0**	275	11	9	–	2,581	10,354	–	2,331

Table W94: Average number of cannot-link constraint violations of the versions of the PCCC algorithm and the four state-of-the-art algorithms (COPKM, CSC, DILS, LCC) for the constraint sets of size 20% CS. The lowest values are stated in bold. The column KMEANS reports the average number of cannot-link constraint violations obtained with the k-means algorithm. The hyphen indicates that the respective algorithm returned no solution within the time limit of 1,800 seconds.