MetaFile WEED COUNT DATA HEIJTING ET AL Kortenoord II

Description of the data

The data stored in this electronic repository are the data that were collected, described, analysed and used in the following publications:

(A) Heijting, S., Van Der Werf, W., Stein, A., Kropff, M.J.(2007)
Are weed patches stable in location? Application of an explicitly two-dimensional methodology. Weed Research, 47 (5), pp. 381-395.
DOI: 10.1111/j.1365-3180.2007.00580.x

(B) Heijting, S., Van Der Werf, W., Kruijer, W., Stein, A. (2007)
Testing the spatial significance of weed patterns in arable land using Mead's test. Weed Research, 47 (5), pp. 396-405.
DOI: 10.1111/j.1365-3180.2007.00577.x

(C) Kruijer, W., Stein, A., Schaafsma, W., Heijting, S. (2007)
Analyzing spatial count data, with an application to weed counts. Environmental and Ecological Statistics, 14 (4), pp. 399-410.
DOI 10.1007/s10651-007-0027-y

(D) Heijting, S. (2007)
Spatial analysis of weed patterns. PhD thesis. 146 p.
http://library.wur.nl/WebQuery/wda/1858397
http://edepot.wur.nl/121916

When you use the weed data, please refer to the relevant publication(s) listed above. Thank you.

The data consist of weed count data on contiguous quadrats on part of an arable field in Wageningen during 3 consecutive years (2001, 2002, 2003), prior to the herbicide application.

Publication	Weed counts	Years
A (Heijting et al., 2007 a)	5 species	2001
B (Heijting et al., 2007 b)	15 species	2001, 2002, 2003
C (Kruijer et al., 2007)	3 species	2001
D (Heijting, 2007)	Depends on chapter	Depends on chapter

Further details on the collection of the data and the weed species described in this study can be found in detail on p 383 of publication (A). The data are presented for each year separately in *.txt files and in excelfiles.

Filename: **KO2 2001 15weed species.txt**

KO2 stands for Kortenoord2, the fieldname.

The codes used in the files are an abbreviation of the species name:

WeedCode	Species
capbu	*Capsella bursa-pastoris*
cheal	*Chenopodium album*
chepo	*Chenopodium polyspermum*
echcr	*Echninochloa crus-galli*
lampu	*Lamium purpureum*
poaan	*Poa annua*
polav	*Polygonum aviculare*
polpela	*Persicaria maculosa and P. lapathifolium*
ransc	*Ranunculus sceleratus*
senvu	*Senecio vulgaris*
solni	*Solanum nigrum*
sonxx	*Sonchus asper + Sonchus oleraceus*
steme	*Stellaria media*
tarof	*Taraxacum officinale*
trire	*Trifolium repens*

The years are indicated with 1 for 2001, 2 for 2002 and 3 for 2003.

The k2 in Capbuk21 is short for the field name: Kortenoord 2.

Geo-location & configuration of the contiguous quadrats

The Kortenoord 2 field is located in Wageningen and more information on the location of the sampled area can be found in the Materials and Methods section of publication (B).

The total number of weed counts was 1072 quadrats, see also in Heijting et al., 2007 for the position and configuration of the quadrats.

The shape file **Kortenoord 2.shp** can be used to visualize the weed data in ArcMap. It is not georeferenced, but it uses a local reference.

The field (attribute) GRID_CODE is the unique code. It is number 1 to 1072 and corresponds to the number in the column CEL in the weed data files.

Visualizing the data

ArcMap>Right click >Join & relate>Join>okArcMap>click on shape Kortenoord2>Properties>Symbology>Quantities>Graduate colors>Fields>Value> (name weed)
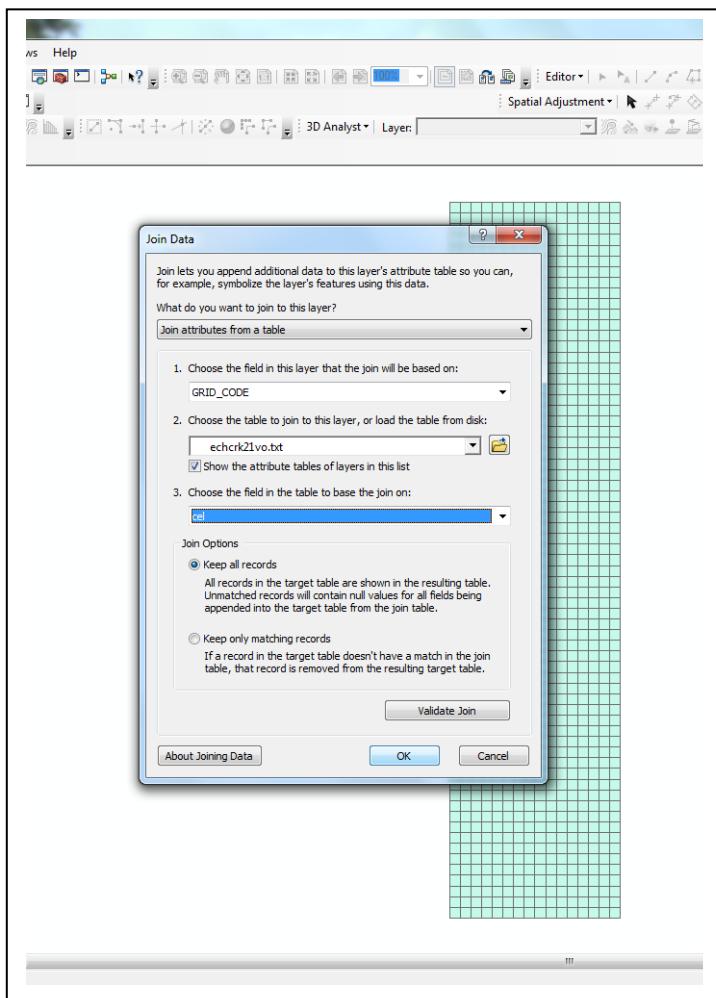
In case you do not have ArcMap, the file: **KO2map.xls** describes the configuration of the contiguous quadrats: the celnumbering is provided. It is also provided on the next page.

1	68	135	202	269	336	403	470	537	604	671	738	805	872	939	1006
2	69	136	203	270	337	404	471	538	605	672	739	806	873	940	1007
3	70	137	204	271	338	405	472	539	606	673	740	807	874	941	1008
4	71	138	205	272	339	406	473	540	607	674	741	808	875	942	1009
5	72	139	206	273	340	407	474	541	608	675	742	809	876	943	1010
6	73	140	207	274	341	408	475	542	609	676	743	810	877	944	1011
7	74	141	208	275	342	409	476	543	610	677	744	811	878	945	1012
8	75	142	209	276	343	410	477	544	611	678	745	812	879	946	1013
9	76	143	210	277	344	411	478	545	612	679	746	813	880	947	1014
10	77	144	211	278	345	412	479	546	613	680	747	814	881	948	1015
11	78	145	212	279	346	413	480	547	614	681	748	815	882	949	1016
12	79	146	213	280	347	414	481	548	615	682	749	816	883	950	1017
13	80	147	214	281	348	415	482	549	616	683	750	817	884	951	1018
14	81	148	215	282	349	416	483	550	617	684	751	818	885	952	1019
15	82	149	216	283	350	417	484	551	618	685	752	819	886	953	1020
16	83	150	217	284	351	418	485	552	619	686	753	820	887	954	1021
17	84	151	218	285	352	419	486	553	620	687	754	821	888	955	1022
18	85	152	219	286	353	420	487	554	621	688	755	822	889	956	1023
19	86	153	220	287	354	421	488	555	622	689	756	823	890	957	1024
20	87	154	221	288	355	422	489	556	623	690	757	824	891	958	1025
21	88	155	222	289	356	423	490	557	624	691	758	825	892	959	1026
22	89	156	223	290	357	424	491	558	625	692	759	826	893	960	1027
23	90	157	224	291	358	425	492	559	626	693	760	827	894	961	1028
24	91	158	225	292	359	426	493	560	627	694	761	828	895	962	1029
25	92	159	226	293	360	427	494	561	628	695	762	829	896	963	1030
26	93	160	227	294	361	428	495	562	629	696	763	830	897	964	1031
27	94	161	228	295	362	429	496	563	630	697	764	831	898	965	1032
28	95	162	229	296	363	430	497	564	631	698	765	832	899	966	1033
29	96	163	230	297	364	431	498	565	632	699	766	833	900	967	1034
30	97	164	231	298	365	432	499	566	633	700	767	834	901	968	1035
31	98	165	232	299	366	433	500	567	634	701	768	835	902	969	1036
32	99	166	233	300	367	434	501	568	635	702	769	836	903	970	1037
33	100	167	234	301	368	435	502	569	636	703	770	837	904	971	1038
34	101	168	235	302	369	436	503	570	637	704	771	838	905	972	1039
35	102	169	236	303	370	437	504	571	638	705	772	839	906	973	1040
36	103	170	237	304	371	438	505	572	639	706	773	840	907	974	1041
37	104	171	238	305	372	439	506	573	640	707	774	841	908	975	1042
38	105	172	239	306	373	440	507	574	641	708	775	842	909	976	1043
39	106	173	240	307	374	441	508	575	642	709	776	843	910	977	1044
40	107	174	241	308	375	442	509	576	643	710	777	844	911	978	1045
41	108	175	242	309	376	443	510	577	644	711	778	845	912	979	1046
42	109	176	243	310	377	444	511	578	645	712	779	846	913	980	1047
43	110	177	244	311	378	445	512	579	646	713	780	847	914	981	1048
44	111	178	245	312	379	446	513	580	647	714	781	848	915	982	1049
45	112	179	246	313	380	447	514	581	648	715	782	849	916	983	1050
46	113	180	247	314	381	448	515	582	649	716	783	850	917	984	1051
47	114	181	248	315	382	449	516	583	650	717	784	851	918	985	1052
48	115	182	249	316	383	450	517	584	651	718	785	852	919	986	1053
49	116	183	250	317	384	451	518	585	652	719	786	853	920	987	1054
50	117	184	251	318	385	452	519	586	653	720	787	854	921	988	1055
51	118	185	252	319	386	453	520	587	654	721	788	855	922	989	1056
52	119	186	253	320	387	454	521	588	655	722	789	856	923	990	1057
53	120	187	254	321	388	455	522	589	656	723	790	857	924	991	1058
54	121	188	255	322	389	456	523	590	657	724	791	858	925	992	1059
55	122	189	256	323	390	457	524	591	658	725	792	859	926	993	1060
56	123	190	257	324	391	458	525	592	659	726	793	860	927	994	1061
57	124	191	258	325	392	459	526	593	660	727	794	861	928	995	1062
58	125	192	259	326	393	460	527	594	661	728	795	862	929	996	1063
59	126	193	260	327	394	461	528	595	662	729	796	863	930	997	1064
60	127	194	261	328	395	462	529	596	663	730	797	864	931	998	1065
61	128	195	262	329	396	463	530	597	664	731	798	865	932	999	1066
62	129	196	263	330	397	464	531	598	665	732	799	866	933	1000	1067
63	130	197	264	331	398	465	532	599	666	733	800	867	934	1001	1068
64	131	198	265	332	399	466	533	600	667	734	801	868	935	1002	1069
65	132	199	266	333	400	467	534	601	668	735	802	869	936	1003	1070
66	133	200	267	334	401	468	535	602	669	736	803	870	937	1004	1071
67	134	201	268	335	402	469	536	603	670	737	804	871	938	1005	1072