Table Test

RFL, DTW, BPC

2022-04-25

```
## Warning: package 'knitr' was built under R version 4.0.5

## Warning: package 'kableExtra' was built under R version 4.0.5

## Warning: package 'dplyr' was built under R version 4.0.5

## Warning: package 'readr' was built under R version 4.0.5

## Warning: package 'tidyr' was built under R version 4.0.5

## Warning: package 'forcats' was built under R version 4.0.5

##  [1] "X"                  "PROJECT"            "SAMPLING_DATE"
##  [4] "SITE"               "FIELD.REP"          "SAMPLE_DESCRIPTOR"
##  [7] "OM.AREA.g.m2"       "ASH.AREA.g.m2"      "PHICOCYANIN.MG.M2"
## [10] "TOTAL.MG.M2.RITCHIE" "Al"                "Alr"
## [13] "As"                 "B"                  "Br"
## [16] "Ba"                 "Be"                 "Car"
## [19] "Cd"                 "Co"                 "Cr"
## [22] "Cu"                 "Fe"                 "Fer"
## [25] "Fer.1"              "Kr"                 "Lir"
## [28] "Mgr"                "Mn"                 "Mnr"
## [31] "Mo"                 "Nar"                "Ni"
## [34] "P"                  "Pb"                 "S"
## [37] "Sr"                 "S.1"                "Sb"
## [40] "Se"                 "Si"                 "Sir"
## [43] "Sir.1"              "Sn"                 "Srr"
## [46] "Ti"                 "Tl"                 "Zn"
## [49] "Znr"                "Al.1"               "Alr.1"
## [52] "As.1"               "B.1"                "Br.1"
## [55] "Ba.1"               "Be.1"               "Car.1"
## [58] "Cd.1"               "Co.1"               "Cr.1"
## [61] "Cu.1"               "Fe.1"               "Fer.2"
## [64] "Fer.1.1"            "Kr.1"               "Lir.1"
## [67] "Mgr.1"              "Mn.1"               "Mnr.1"
## [70] "Mo.1"               "Nar.1"              "Ni.1"
## [73] "P.1"                "Pb.1"               "S.2"
## [76] "Sr.1"               "S.1.1"              "Sb.1"
## [79] "Se.1"               "Si.1"               "Sir.2"
## [82] "Sir.1.1"            "Sn.1"               "Srr.1"
## [85] "Ti.1"               "Tl.1"               "Zn.1"
## [88] "Znr.1"
```

```
##           DATE SITE SAMPLE_DESCRIPTOR      MEAN.AS     STDER.AS       MEAN.CD
## 1  2021-06-22   BG             EPIL 0.041130070 0.003019034 0.003959835
## 2  2021-07-07   BG             EPIL 0.066614870 0.029973111 0.006735735
## 3  2021-08-03   BG             EPIL 0.008725032 0.002808134 0.002651075
## 4  2021-08-17   BG             EPIL 0.009121825 0.002959723 0.002165732
## 5  2021-09-22   BG             EPIL 0.008788918 0.003170824 0.001699337
## 6  2021-06-22   BN             EPIL 0.024009524 0.003063709 0.002663924
##        STDER.CD   MEAN.CU   STDER.CU   MEAN.FE    STDER.FE    MEAN.PB     STDER.PB
## 1 0.0001941771 0.4277544 0.03886103 16.29375   1.2464078 0.07421220 0.007107817
## 2 0.0025484500 0.7331277 0.33963600 27.20220  12.4981005 0.11888077 0.053357251
## 3 0.0002426344 0.3188660 0.01445392 12.19134   0.3914567 0.05100029 0.002884840
## 4 0.0001526947 0.2682885 0.02528037 10.54700   0.7985126 0.04158131 0.003544702
## 5 0.0003013738 0.2346874 0.03477135 10.15320   0.6744478 0.03680406 0.004936077
## 6 0.0003814987 0.2749679 0.04874569 11.34112   1.9228918 0.04999458 0.008127799
##     MEAN.ZN  STDER.ZN
## 1  4.354358 2.8738890
## 2 32.769067 9.2026446
## 3 12.316397 3.1460194
## 4  6.761264 2.5519198
## 5  5.321995 0.8481509
## 6  3.895664 2.7453533

## [1] 15

##           DATE SITE SAMPLE_DESCRIPTOR      MEAN.AS      STDER.AS        MEAN.CD
## 10 2021-06-22   BN             EPIL 0.024009524 0.0030637091 0.0026639240
## 11 2021-07-07   BN             EPIL 0.039080153 0.0044045519 0.0035602204
## 12 2021-08-03   BN             EPIL 0.003264014 0.0017593590 0.0018164318
## 13 2021-09-22   BN             EPIL 0.004145866 0.0027071438 0.0017322818
## 14 2021-10-13   BN             EPIL 0.004755717 0.0018430870 0.0012994670
## 39 2021-06-22   BN             EPIP 0.047278684 0.0033224964 0.0030453204
## 40 2021-07-07   BN             EPIP 0.052701826 0.0176809652 0.0038468362
## 41 2021-08-03   BN             EPIP 0.004019100 0.0030027875 0.0017829951
## 42 2021-10-13   BN             EPIP 0.003480968 0.0012083637 0.0013422127
## 58 2021-06-22   BN             FILA 0.013459826 0.0008644207 0.0011193690
## 59 2021-07-07   BN             FILA 0.020047081 0.0013350571 0.0019041344
## 60 2021-07-20   BN             FILA 0.010295143 0.0022300440 0.0011264057
## 61 2021-08-03   BN             FILA 0.008201166 0.0010905196 0.0015973743
## 62 2021-09-22   BN             FILA 0.006775501 0.0015078231 0.0010942383
## 63 2021-10-13   BN             FILA 0.012159803 0.0020239836 0.0008855285
##        STDER.CD   MEAN.CU    STDER.CU    MEAN.FE STDER.FE    MEAN.PB
## 10 3.814987e-04 0.2749679 0.048745686 11.341124 1.9228918 0.04999458
## 11 3.289671e-04 0.4081814 0.031442280 15.887836 1.0013612 0.06697233
## 12 1.990161e-04 0.2418177 0.022018767  9.686723 0.7641076 0.04268325
## 13 4.200782e-04 0.2225435 0.056594668  9.779237 2.6800404 0.03624402
## 14 1.066161e-04 0.1904801 0.023045579  8.375985 0.9232846 0.03195231
## 39 2.953467e-04 0.4560908 0.037214167 19.369311 0.7358733 0.07887869
## 40 1.309840e-03 0.5516323 0.183053039 23.208675 7.9932598 0.09555154
## 41 1.299213e-04 0.2512351 0.008050031 10.295439 0.5018341 0.04213075
## 42 4.162867e-04 0.3127377 0.015515501 13.634020 0.3284649 0.05423180
## 58 5.405253e-05 0.1306454 0.012761703  7.083334 0.7003202 0.02423952
## 59 2.480437e-04 0.2209220 0.033291551  8.538348 0.8988005 0.03502667
## 60 5.008305e-05 0.1305381 0.016857328  5.804297 0.7711360 0.01786417
## 61 6.847024e-05 0.1535245 0.011010933  5.880039 0.3932593 0.02165292
```

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## 62 1.345746e-04 0.1203914 0.011335934  5.964711 0.2358144 0.01914940
## 63 7.785061e-05 0.1063024 0.017833461  5.608124 0.8249329 0.01663688
##          STDER.PB    MEAN.ZN   STDER.ZN
## 10 0.0081277987  3.8956637 2.74535333
## 11 0.0061508464 16.1474020 8.64365142
## 12 0.0021653244 14.1685641 4.39179747
## 13 0.0094264804  6.6839502 1.88988219
## 14 0.0031384613  4.8554731 0.36653299
## 39 0.0066642313 14.1850816 2.51073009
## 40 0.0326793072 19.8902005 7.02516325
## 41 0.0013303514 10.5592004 3.27290078
## 42 0.0014540185 25.1753560 7.53760692
## 58 0.0023343971  0.3089483 0.02833788
## 59 0.0046680565  0.4662318 0.05650439
## 60 0.0026472433  0.2791451 0.03149469
## 61 0.0009848153  0.3281478 0.01690127
## 62 0.0011130814  0.3283803 0.04593452
## 63 0.0021155067  0.2853441 0.02175953
```

Table 1: Burdens per compartment

DATE	SITE	SAMPLE_DESCRIPTOR	MEAN.AS	STDER.AS	MEAN.CD	STDER.CD	MEAN.CU	STDER.CU	MEAN.FE	STDER.FE	MEAN.PB	STDER.PB	MEAN.ZN	STDER.ZN
2021-06-22														
2021-06-22	WS	EPIL	0.2116809	0.1193940	0.0095655	0.0059441	1.4691788	0.8575891	45.912084	25.5014563	0.1743546	0.0971636	53.087651	33.4304175
2021-07-07	WS	EPIL	0.0695763	0.0065896	0.0033827	0.0002566	0.4536979	0.0253369	13.773208	0.5714288	0.0730270	0.0226151	69.693680	25.2598996
2021-08-03	WS	EPIL	0.0298957	0.0062006	0.0031675	0.0006114	0.4484288	0.0540310	10.942926	1.3154123	0.0495446	0.0078216	18.796525	5.7263676
2021-08-17	WS	EPIL	0.0120863	0.0089029	0.0018329	0.0005822	0.3545396	0.0228525	9.799371	0.5203087	0.0387900	0.0026678	46.487860	5.5313080
2021-06-22	BG	EPIL	0.0411301	0.0030190	0.0039598	0.0001942	0.4277544	0.0388610	16.293751	1.2464078	0.0742122	0.0071078	4.354359	2.8738890
2021-07-07	BG	EPIL	0.0666149	0.0299731	0.0067357	0.0025485	0.7331277	0.3396360	27.202200	12.4981005	0.1188808	0.0533573	32.769067	9.2026446
2021-07-07														
2021-08-03	BG	EPIL	0.0087250	0.0028081	0.0026511	0.0002426	0.3188660	0.0144539	12.191335	0.3914567	0.0510003	0.0028848	12.316397	3.1460194
2021-08-17	BG	EPIL	0.0091218	0.0029597	0.0021657	0.0001527	0.2682885	0.0252804	10.547004	0.7985126	0.0415813	0.0035447	6.761264	2.5519198
2021-09-22	BG	EPIL	0.0087889	0.0031708	0.0016993	0.0003014	0.2346874	0.0347713	10.153196	0.6744478	0.0368041	0.0049361	5.321995	0.8481509
2021-06-22	BN	EPIL	0.0240095	0.0030637	0.0026639	0.0003815	0.2749679	0.0487457	11.341124	1.9228918	0.0499946	0.0081278	3.895664	2.7453533
2021-07-07	BN	EPIL	0.0390802	0.0044046	0.0035602	0.0003290	0.4081814	0.0314423	15.887836	1.0013612	0.0669723	0.0061508	16.147402	8.6436514
2021-08-03	BN	EPIL	0.0032640	0.0017594	0.0018164	0.0001990	0.2418177	0.0220188	9.686723	0.7641076	0.0426833	0.0021653	14.168564	4.3917975
2021-08-03														
2021-09-22	BN	EPIL	0.0041459	0.0027071	0.0017323	0.0004201	0.2225435	0.0565947	9.779237	2.6800404	0.0362440	0.0094265	6.683950	1.8898822
2021-10-13	BN	EPIL	0.0047557	0.0018431	0.0012995	0.0001066	0.1904801	0.0230456	8.375985	0.9232846	0.0319523	0.0031385	4.855473	0.3665330
2021-06-22	DL	EPIL	0.0552342	0.0036790	0.0031836	0.0000544	0.4895845	0.0157171	15.918681	0.5627651	0.0744757	0.0025530	14.499990	6.2959041
2021-07-07	DL	EPIL	0.0629777	0.0011450	0.0042484	0.0002882	0.6084941	0.0169852	14.038437	0.1569240	0.0883519	0.0070131	30.452068	5.3217829
2021-08-03	DL	EPIL	0.0334627	0.0131022	0.0062021	0.0022259	0.7764562	0.3025010	19.713156	7.9809975	0.0933368	0.0375186	18.494962	10.7843165
2021-08-17	DL	EPIL	0.0217775	0.0070235	0.0024667	0.0004072	0.6975653	0.1921166	14.834440	4.1769714	0.0778651	0.0210921	36.758844	24.1421488
2021-08-17														
2021-09-22	DL	EPIL	0.0214239	0.0040004	0.0021963	0.0000764	0.4010030	0.0159894	11.043871	0.3663953	0.0541927	0.0025160	9.738547	3.4477602
2021-10-13	DL	EPIL	0.0213712	0.0024037	0.0026874	0.0001547	0.3997524	0.0285256	10.191799	0.5976127	0.0501180	0.0031880	6.772174	0.9485413
2021-06-22	GR	EPIL	0.0751402	0.0348916	0.0060645	0.0029843	0.6289730	0.2814192	18.836346	8.1296034	0.0940918	0.0419910	23.695437	13.3066228
2021-07-07	GR	EPIL	0.0619667	0.0068061	0.0051665	0.0004085	0.4418878	0.0171759	12.538402	0.6481508	0.0602815	0.0023232	49.058875	26.5417644
2021-08-03	GR	EPIL	0.0043529	0.0016742	0.0029633	0.0010752	0.2832076	0.1010264	9.972016	3.6937710	0.0427511	0.0169679	11.511011	3.6109145
2021-09-22														
2021-08-17	GR	EPIL	0.0047552	0.0008481	0.0016104	0.0004205	0.4210587	0.0479224	10.042897	0.6419331	0.0529299	0.0049494	71.259900	13.9362033
2021-09-22	GR	EPIL	0.0015352	0.0002361	0.0021156	0.0002034	0.2556314	0.0067453	6.881198	0.4071306	0.0362500	0.0022097	22.435684	4.0160992
2021-10-13	GR	EPIL	0.0034130	0.0025191	0.0014328	0.0002594	0.1978053	0.0210121	5.291978	0.5839106	0.0251190	0.0023529	9.539676	0.8489143
2021-06-22	GC	EPIL	0.0330188	0.0063845	0.0048373	0.0006645	0.2427202	0.0209287	9.329701	0.4390306	0.0432448	0.0035915	8.383490	4.7488672
2021-10-13														
2021-07-07	GC	EPIL	0.0523384	0.0132146	0.0042085	0.0002502	0.4204524	0.0623557	15.649608	1.4161630	0.0675625	0.0111955	62.474708	24.9017856
2021-08-03	GC	EPIL	0.0417829	0.0173808	0.0046373	0.0019928	0.7951282	0.3151750	18.915477	7.9825417	0.1176278	0.0449134	20.534263	7.3884647
2021-08-17	GC	EPIL	0.0033279	0.0005481	0.0013890	0.0002595	0.2230728	0.0252041	8.808810	0.9686280	0.0351103	0.0033127	48.906044	8.7836503
2021-09-09	GC	EPIL	0.0040830	0.0013676	0.0019459	0.0001731	0.3148984	0.0142822	11.221179	0.9173589	0.0492153	0.0052316	22.575317	6.2477639
2021-09-09														
2021-10-13	GC	EPIL	0.0063853	0.0023981	0.0020936	0.0000671	0.2674472	0.0183764	9.897599	0.9057188	0.0381403	0.0026608	12.496511	1.4809054