

Digital supplementary material to

PETRÁKOVÁ, L. & SCHLAGHAMERSKÝ, J. 2014: Worker polymorphism in the arboreal ant *Liometopum microcephalum* (Hymenoptera: Formicidae: Dolichoderinae): Is it related to territory size? – Myrmecological News 20: 101-111.

Appendix S1: Analysis script used in R.2.10.1 (R DEVELOPMENT CORE TEAM 2011: A Language and Environment for Statistical Computing. R Foundation for Statistical Computing, Vienna. – <http://www.R-project.org>, retrieved on 9 August 2011). The levels of polymorphism were determined separately for each colony using k-means clustering (dividing workers into groups according to their sizes), plotting and testing slopes between regression lines fitted to those worker groups. Linear mixed models (lme) with random effect were used to assess the difference between groups of workers collected at different times or from different places. Marginal models with General Least Squares function (gls) and compound symmetry correlation structure were used to model the dependence of worker size on several factors. The names of variables are set in italics, m1 and m2 are models.

Level of polymorphism:

```
kmeans (ColonyData, 2, 1000)
plot (log (HeadWidth) ~ log (FemurLength), xlim = c (6.5, 7.5), ylim = c (6.5, 7.5), type = "n")
points (log (HeadWidth [Group == "1"]) ~ log (FemurLength [Group == "1"]) )
points (log (HeadWidth [Group == "2"]) ~ log (FemurLength [Group == "2"]), col = "red" )
m1 <- aov (log (HeadWidth) ~ log (FemurLength) * Group)
summary (m1)
m2 <- lm (log (HeadWidth) ~ log (FemurLength))
abline (m2)
plot (m2, 1:4)
summary (m2)
```

Difference between groups of workers (nest versus trail, before versus after attack, spring versus summer):

```
library (nlme)
m1 <- lme (FemurLength ~ Group, random = ~ 1|Colony))
anova (m1)
summary (m1)
```

Factors (Territory, Competitor, Habitat, Season) potentially affecting worker size:

```
library (nlme)
m1 <- gls (MeanFemurLength ~ Territory + Season, cor = corCompSymm (form = ~ 1|Colony))
anova (m1)
summary (m1)
```

Appendix S2: All measurements of *Liometopum microcephalum* workers collected from 15 colonies in 2011: a) the raw data set consisting of measured worker size values, b) mean worker femur lengths (Mean FL) computed for single colonies with the analyzed environmental factors. All values for worker body parts are given in μm , territory areas in m^2 .

Appendix S2a.

Colony	Season	Group	Head width	Head length	Femur length	Tibia length
M1	summer	nest	1253	1222	1265	1188
M1	summer	nest	970	1016	988	1012
M1	summer	nest	1585	1439	1470	1403
M1	summer	nest	1498	1397	1471	1357
M1	summer	nest	1356	1298	1330	1249
M1	summer	nest	890	852	873	842
M1	summer	nest	1391	1305	1347	1384
M1	summer	nest	1453	1368	1400	1358
M1	summer	nest	1635	1471	1568	1494
M1	summer	nest	1200	1160	1196	1126
M1	summer	nest	1231	1229	1212	1168
M1	summer	nest	1397	1301	1342	1310
M1	summer	nest	1250	1252	1237	1142
M1	summer	nest	850	843	857	846
M1	summer	nest	1544	1404	1452	1407
M1	summer	nest	1417	1290	1375	1262
M1	summer	nest	1307	1256	1284	1211
M1	summer	nest	854	837	927	871
M1	summer	nest	1070	1077	1167	871
M1	summer	nest	1302	1204	1297	1189
M1	summer	nest	1497	1311	1398	1313
M1	summer	nest	1519	1366	1450	1339
M1	summer	nest	1097	1071	1111	1051
M1	summer	nest	1503	1394	1430	1359
M1	summer	nest	1584	1367	1461	1358
M1	summer	nest	1352	1268	1349	1279
M1	summer	nest	1188	1125	1197	1133
M1	summer	nest	1401	1253	1387	1281
M1	summer	nest	1332	1255	1260	1154
M1	summer	nest	1405	1337	1388	1300
M1	summer	nest	951	900	955	909
M1	summer	nest	1261	1178	1271	1203
M1	summer	nest	1411	1368	1356	1237
M1	summer	nest	985	960	961	1249
M1	summer	nest	1528	1264	1414	1386
M1	summer	nest	896	827	953	913
M1	summer	nest	896	890	933	856

M1	summer	nest	1005	1003	1056	993
M1	summer	nest	923	929	986	911
M1	summer	nest	1133	1086	1131	1093
M1	summer	nest	1147	1038	1228	1041
M1	summer	nest	1295	1178	1259	1259
M1	summer	nest	1539	1393	1430	1390
M1	summer	nest	1353	1282	1308	1293
M1	summer	nest	1321	1250	1260	1279
M1	summer	nest	1206	1117	1207	1183
M1	summer	nest	1483	1357	1424	1404
M1	summer	nest	1377	1256	1322	1239
M1	summer	nest	848	764	851	918
M1	summer	nest	1492	1352	1412	1317
M1	summer	trail	1275	1102	1249	1188
M1	summer	trail	1243	1161	1206	1012
M1	summer	trail	1419	1319	1384	1403
M1	summer	trail	1148	1139	1184	1357
M1	summer	trail	1466	1448	1392	1319
M1	summer	trail	1459	1386	1453	1427
M1	summer	trail	1408	1255	1333	842
M1	summer	trail	1141	1115	1096	1384
M1	summer	trail	1099	1050	1122	1358
M1	summer	trail	1024	1007	1008	1494
M1	summer	trail	1207	1165	1202	1126
M1	summer	trail	1274	1171	1215	1168
M1	summer	trail	1152	1088	1102	1310
M1	summer	trail	1463	1382	1433	1142
M1	summer	trail	1372	1332	1371	846
M1	summer	trail	1009	969	974	1407
M1	summer	trail	1009	998	1026	1262
M1	summer	trail	1389	1258	1300	1211
M1	summer	trail	1406	1280	1368	1319
M1	summer	trail	1597	1437	1445	1189
M1	summer	trail	1050	858	1016	1313
M1	summer	trail	1131	1128	1198	1339
M1	summer	trail	1346	1239	1265	1051
M1	summer	trail	1145	1062	1105	1359
M1	summer	trail	1361	1216	1321	1358
M1	summer	trail	1392	1306	1389	1279
M1	summer	trail	1007	972	971	1133
M1	summer	trail	1527	1401	1403	1281
M1	summer	trail	1289	1262	1323	1154
M1	summer	trail	1174	1081	1189	1300

M1	summer	trail	1184	1107	1053	909
M1	summer	trail	1625	1504	1540	1203
M1	summer	trail	1335	1263	1296	1237
M1	summer	trail	1541	1438	1498	1427
M1	summer	trail	919	895	910	1386
M1	summer	trail	1378	1334	1345	913
M1	summer	trail	1300	1324	1220	856
M1	summer	trail	1169	1132	1146	993
M1	summer	trail	1564	1468	1379	911
M1	summer	trail	1259	1155	1265	1093
M1	summer	trail	1161	1131	1121	1041
M1	summer	trail	1460	1401	1420	1259
M1	summer	trail	1089	1077	1129	1390
M1	summer	trail	1541	1425	1483	1279
M1	summer	trail	1378	1258	1322	1183
M1	summer	trail	1070	1028	990	1404
M1	summer	trail	1493	1387	1388	1239
M1	summer	trail	1570	1436	1464	918
M1	summer	trail	1257	1192	1262	1317
M1	summer	trail	901	879	845	920
M1	summer	after attack	1173	1164	1206	1123
M1	summer	after attack	1497	1386	1430	1348
M1	summer	after attack	1322	1352	1302	1262
M1	summer	after attack	959	893	970	963
M1	summer	after attack	1146	1075	1151	1131
M1	summer	after attack	1526	1346	1475	1404
M1	summer	after attack	969	1018	1031	936
M1	summer	after attack	1455	1452	1431	1406
M1	summer	after attack	1529	1422	1490	1405
M1	summer	after attack	1229	1157	1203	1135
M1	summer	after attack	1016	1032	975	930
M1	summer	after attack	1369	1261	1371	1301
M1	summer	after attack	993	984	1058	989
M1	summer	after attack	1384	1270	1326	1274
M1	summer	after attack	1314	1274	1313	1250
M1	summer	after attack	1154	1127	1158	1069
M1	summer	after attack	1190	1150	1224	1225
M1	summer	after attack	1160	1115	1154	1114
M1	summer	after attack	1204	1165	1212	1159
M1	summer	after attack	1563	1364	1489	1509
M1	summer	after attack	1029	1041	1089	1105
M1	summer	after attack	1385	1280	1344	1290
M1	summer	after attack	1302	1255	1286	1186

M1	summer	after attack	1148	1097	1184	1060
M1	summer	after attack	1376	1255	1332	1306
M1	summer	after attack	873	892	943	897
M1	summer	after attack	1432	1234	1424	1339
M1	summer	after attack	1391	1348	1375	1298
M1	summer	after attack	1452	1355	1424	1373
M1	summer	after attack	1321	1196	1263	1224
M1	summer	after attack	901	882	969	849
M1	summer	after attack	1596	1458	1489	1331
M1	summer	after attack	1581	1398	1472	1426
M1	summer	after attack	1511	1407	1414	1391
M1	summer	after attack	907	904	907	920
M1	summer	after attack	1286	1303	1292	1241
M1	summer	after attack	1416	1295	1345	1330
M1	summer	after attack	1202	1157	1173	1146
M1	summer	after attack	1449	1359	1330	1344
M1	summer	after attack	1101	1108	1145	1098
M1	summer	after attack	1074	1060	1097	1075
M1	summer	after attack	1365	1283	1305	1311
M1	summer	after attack	1031	1006	1082	1036
M1	summer	after attack	942	891	965	929
M1	summer	after attack	1482	1296	1433	1426
M1	summer	after attack	1051	1027	1060	964
M1	summer	after attack	1041	1019	1084	957
M1	summer	after attack	1367	1303	1387	1324
M1	summer	after attack	1061	1051	1110	1027
M2	summer	nest	1248	1225	1175	1096
M2	summer	nest	1066	1036	1083	959
M2	summer	nest	1412	1234	1295	1250
M2	summer	nest	1405	1282	1316	1310
M2	summer	nest	785	807	825	714
M2	summer	nest	1221	1175	1215	1182
M2	summer	nest	1037	1025	984	881
M2	summer	nest	1378	1271	1346	1247
M2	summer	nest	1316	1211	1262	1224
M2	summer	nest	1122	1095	1103	1008
M2	summer	nest	1448	1282	1347	1262
M2	summer	nest	1296	1200	1282	1221
M2	summer	nest	1108	1057	1102	1043
M2	summer	nest	901	881	774	678
M2	summer	nest	1185	1138	1165	1091
M2	summer	nest	1415	1291	1358	1211
M2	summer	nest	1472	1397	1431	1366

M2	summer	nest	1326	1215	1259	1166
M2	summer	nest	1245	1139	1243	1190
M2	summer	nest	1365	1239	1289	1234
M2	summer	nest	1237	1190	1214	1149
M2	summer	nest	1174	1117	1154	1088
M2	summer	nest	1163	1065	1141	1031
M2	summer	nest	1431	1383	1356	1277
M2	summer	nest	1239	1229	1204	1167
M2	summer	nest	1022	939	1000	964
M2	summer	nest	1435	1314	1343	1288
M2	summer	nest	970	909	969	845
M2	summer	nest	1163	1001	1101	1059
M2	summer	nest	1108	1043	969	819
M2	summer	nest	982	985	946	944
M2	summer	nest	1475	1342	1370	1312
M2	summer	nest	1310	1262	1246	1182
M2	summer	nest	907	898	932	894
M2	summer	nest	1228	1109	1251	1115
M2	summer	nest	1351	1268	1302	1226
M2	summer	nest	1217	1103	1218	1080
M2	summer	nest	1260	1291	1265	1262
M2	summer	nest	1153	1131	1158	1079
M2	summer	nest	1254	1188	1280	1145
M2	summer	nest	1132	1095	1144	1111
M2	summer	nest	1318	1219	1294	1225
M2	summer	nest	1240	1141	1184	1114
M2	summer	nest	1271	1209	1265	1191
M2	summer	nest	1159	1131	1169	1094
M2	summer	nest	1055	1001	1040	990
M2	summer	nest	939	934	940	838
M2	summer	nest	1278	1202	1292	1224
M2	summer	nest	1200	1077	1162	1136
M2	summer	nest	1270	1227	1225	1137
M2	summer	trail	1089	1001	930	1025
M2	summer	trail	1379	1309	1366	1269
M2	summer	trail	1135	1089	1131	1077
M2	summer	trail	1330	1275	1321	1236
M2	summer	trail	1222	1189	1264	1114
M2	summer	trail	1276	1224	1217	1202
M2	summer	trail	1317	1248	1286	1204
M2	summer	trail	927	927	930	867
M2	summer	trail	817	846	833	864
M2	summer	trail	1418	1330	1352	1300

M2	summer	trail	1214	1187	1190	1146
M2	summer	trail	1249	1234	1240	1153
M2	summer	trail	1339	1258	1316	1224
M2	summer	trail	1041	1061	1077	929
M2	summer	trail	1277	1198	1229	1068
M2	summer	trail	1420	1307	1387	1314
M2	summer	trail	882	871	917	869
M2	summer	trail	1141	1130	1161	1107
M2	summer	trail	1311	1229	1253	1197
M2	summer	trail	1173	1107	1179	1093
M2	summer	trail	1390	1292	1357	1285
M2	summer	trail	1186	1156	1189	1137
M2	summer	trail	1168	1135	1136	1047
M2	summer	trail	1081	1075	1126	1000
M2	summer	trail	1410	1273	1369	1249
M2	summer	trail	1110	1096	1124	1030
M2	summer	trail	1324	1240	1283	1267
M2	summer	trail	1141	1171	1129	1050
M2	summer	trail	1075	1042	1134	1001
M2	summer	trail	1210	1127	1154	1094
M2	summer	trail	1090	1059	1145	1009
M2	summer	trail	1195	1107	1179	1107
M2	summer	trail	1053	1048	1084	1036
M2	summer	trail	1098	1112	1151	1056
M2	summer	trail	1124	1083	1148	1011
M2	summer	trail	1449	1332	1327	1221
M2	summer	trail	1365	1328	1354	1290
M2	summer	trail	988	979	1059	973
M2	summer	trail	874	866	951	888
M2	summer	trail	985	971	1048	996
M2	summer	trail	1339	1227	1284	1201
M2	summer	trail	1276	1215	1282	1195
M2	summer	trail	849	888	869	846
M2	summer	trail	1322	1276	1342	1222
M2	summer	trail	1384	1277	1343	1250
M2	summer	trail	1313	1223	1246	1135
M2	summer	trail	1263	1145	1228	1091
M2	summer	trail	1040	1024	1079	1069
M2	summer	trail	1351	1277	1181	1207
M2	summer	trail	1224	1171	1211	1060
M2	summer	after attack	1225	1172	1225	1188
M2	summer	after attack	1219	1121	1192	1114
M2	summer	after attack	1187	1101	1166	1118

M2	summer	after attack	1308	1271	1300	1205
M2	summer	after attack	1238	1183	1250	1198
M2	summer	after attack	1194	1062	1201	1075
M2	summer	after attack	1198	1171	1204	1140
M2	summer	after attack	1138	1052	1163	1038
M2	summer	after attack	1383	1261	1371	1272
M2	summer	after attack	1075	1052	876	763
M2	summer	after attack	1321	1293	1270	1198
M2	summer	after attack	1386	1249	1344	1152
M2	summer	after attack	1380	1335	1359	1077
M2	summer	after attack	933	917	991	886
M2	summer	after attack	1025	959	1056	964
M2	summer	after attack	1292	1251	1303	1222
M2	summer	after attack	1393	1293	1315	1226
M2	summer	after attack	1324	1257	1343	1274
M2	summer	after attack	1385	1320	1139	1006
M2	summer	after attack	1235	1131	1220	1119
M2	summer	after attack	1250	1227	1307	1248
M2	summer	after attack	1297	1246	1300	1228
M2	summer	after attack	1194	1158	1033	1028
M2	summer	after attack	1349	1253	1294	1203
M2	summer	after attack	876	900	899	825
M2	summer	after attack	1372	1270	1318	1232
M2	summer	after attack	1027	936	1054	988
M2	summer	after attack	1383	1259	1346	1264
M2	summer	after attack	1362	1269	1300	1295
M2	summer	after attack	1333	1256	1271	1241
M2	summer	after attack	1253	1201	1216	1164
M2	summer	after attack	1047	1033	1048	1002
M2	summer	after attack	1516	1329	1386	1353
M2	summer	after attack	1224	1162	1232	1145
M2	summer	after attack	1267	1251	1269	1238
M2	summer	after attack	1285	1210	1273	1211
M2	summer	after attack	1271	1246	1241	1202
M2	summer	after attack	1074	1060	1043	1016
M2	summer	after attack	1225	1120	1184	1103
M2	summer	after attack	856	846	831	769
M2	summer	after attack	1304	1253	1302	1207
M2	summer	after attack	1391	1260	1336	1281
M2	summer	after attack	1296	1268	1270	1213
M2	summer	after attack	827	883	731	671
M2	summer	after attack	1336	1308	1410	1278
M2	summer	after attack	1399	1238	1317	1220

M2	summer	after attack	1499	1342	1369	1277
M2	summer	after attack	1297	1262	1314	1222
M2	summer	after attack	1144	1150	1207	1147
M2	summer	after attack	916	871	786	686
Z1	spring	nest	1072	1112	1093	996
Z1	spring	nest	856	843	872	807
Z1	spring	nest	1392	1276	1291	1225
Z1	spring	nest	1369	1320	1340	1226
Z1	spring	nest	937	849	938	922
Z1	spring	nest	890	843	926	842
Z1	spring	nest	1168	1126	1163	1073
Z1	spring	nest	1266	1244	1254	1156
Z1	spring	nest	1113	1127	1099	1016
Z1	spring	nest	1163	1151	1028	891
Z1	spring	nest	1337	1221	1348	1192
Z1	spring	nest	1043	908	1086	963
Z1	spring	nest	1420	1310	1315	1248
Z1	spring	nest	1044	1026	1011	884
Z1	spring	nest	1555	1368	1399	1325
Z1	spring	nest	1081	1022	1103	981
Z1	spring	nest	1009	938	979	923
Z1	spring	nest	1318	1204	1296	1163
Z1	spring	nest	1621	1402	1466	1307
Z1	spring	nest	1489	1332	1378	1321
Z1	spring	nest	892	932	917	833
Z1	spring	nest	1347	1265	1353	1288
Z1	spring	nest	1147	1056	1145	1048
Z1	spring	nest	1437	1223	1324	1314
Z1	spring	nest	1282	1265	1296	1121
Z1	spring	nest	1282	1241	1339	1246
Z1	spring	nest	1229	1194	1235	1154
Z1	spring	nest	1338	1229	1308	1210
Z1	spring	nest	1126	1143	1094	1018
Z1	spring	nest	1508	1413	1412	1329
Z1	spring	nest	1408	1438	1435	1240
Z1	spring	nest	1282	1143	1224	1151
Z1	spring	nest	1170	1063	1168	1129
Z1	spring	nest	1347	1231	1293	1186
Z1	spring	nest	1266	1189	1258	1231
Z1	spring	nest	1539	1363	1435	1296
Z1	spring	nest	1299	1336	1312	1186
Z1	spring	nest	1278	1210	1276	1173
Z1	spring	nest	849	854	865	824

Z1	spring	nest	849	854	833	838
Z1	spring	nest	1397	1325	1439	1352
Z1	spring	nest	1199	1225	1257	1174
Z1	spring	nest	1420	1320	1349	1309
Z1	spring	nest	1260	1192	1252	1128
Z1	spring	nest	1065	1013	1068	1027
Z1	spring	nest	977	952	957	952
Z1	spring	nest	1137	1101	1171	1040
Z1	spring	nest	1143	1083	1124	1105
Z1	spring	nest	1503	1350	1476	1369
Z1	spring	nest	1315	1245	1312	1213
Z1	spring	nest	1311	1216	1280	1227
Z1	spring	nest	1433	1368	1406	1370
Z1	spring	trail	1375	1212	1293	1169
Z1	spring	trail	1302	1292	1202	1200
Z1	spring	trail	1335	1260	1346	1205
Z1	spring	trail	1443	1300	1326	1265
Z1	spring	trail	1427	1371	1459	1372
Z1	spring	trail	998	1014	1021	955
Z1	spring	trail	1126	1051	1151	1022
Z1	spring	trail	1234	1115	1252	1176
Z1	spring	trail	1340	1229	1302	1177
Z1	spring	trail	1409	1316	1400	1236
Z1	spring	trail	1155	1048	1135	1064
Z1	spring	trail	1052	998	1035	965
Z1	spring	trail	1424	1363	1347	1259
Z1	spring	trail	1125	1107	1109	1031
Z1	spring	trail	1488	1448	1370	1287
Z1	spring	trail	1281	1264	1277	1140
Z1	spring	trail	1076	1023	1117	974
Z1	spring	trail	1133	1080	1116	987
Z1	spring	trail	979	954	959	954
Z1	spring	trail	1468	1435	1396	1342
Z1	spring	trail	1135	1095	1144	1017
Z1	spring	trail	1372	1377	1421	1295
Z1	spring	trail	1473	1387	1332	1368
Z1	spring	trail	934	874	945	818
Z1	spring	trail	1556	1346	1411	1356
Z1	spring	trail	1276	1226	1251	1180
Z1	spring	trail	886	854	931	759
Z1	spring	trail	1200	1128	1117	1120
Z1	spring	trail	981	955	963	908
Z1	spring	trail	1215	1181	1215	1174

Z1	spring	trail	1271	1176	1213	1177
Z1	spring	trail	1146	1082	1153	1137
Z1	spring	trail	1056	1042	1037	925
Z1	spring	trail	951	935	971	914
Z1	spring	trail	1469	1331	1407	1291
Z1	spring	trail	1283	1172	1251	1112
Z1	spring	trail	1202	1153	1169	1110
Z1	spring	trail	1001	1017	1025	956
Z1	spring	trail	1283	1266	1279	1141
Z1	spring	trail	1311	1216	1280	1227
Z1	spring	trail	1159	1052	1139	1068
Z1	spring	trail	1276	1208	1274	1171
Z1	spring	trail	1283	1266	1297	1122
Z1	spring	trail	1304	1295	1205	1203
Z1	spring	trail	1053	999	1036	966
Z1	spring	trail	1478	1339	1415	1299
Z1	spring	trail	1121	1135	1107	1024
Z1	spring	trail	1490	1333	1379	1322
Z1	summer	nest	1062	1020	845	884
Z1	summer	nest	1062	1016	1038	1011
Z1	summer	nest	1173	1166	1223	1139
Z1	summer	nest	1155	1075	1143	1122
Z1	summer	nest	1351	1255	1293	1248
Z1	summer	nest	1015	992	1009	963
Z1	summer	nest	1015	1028	1012	984
Z1	summer	nest	1309	1202	1364	1217
Z1	summer	nest	1081	1002	1052	1016
Z1	summer	nest	1126	1025	1118	1050
Z1	summer	nest	928	917	973	916
Z1	summer	nest	1392	1303	1362	1248
Z1	summer	nest	1402	1299	1394	1345
Z1	summer	nest	1250	1125	1210	1236
Z1	summer	nest	1399	1296	1341	1264
Z1	summer	nest	1359	1235	1309	1155
Z1	summer	nest	1454	1334	1422	1305
Z1	summer	nest	1112	1086	1097	1048
Z1	summer	nest	1511	1373	1496	1407
Z1	summer	nest	819	826	843	788
Z1	summer	nest	1141	1102	1113	1098
Z1	summer	nest	1277	1228	1234	1194
Z1	summer	nest	1230	1162	1238	1169
Z1	summer	nest	939	927	923	835
Z1	summer	nest	1362	1264	1274	1229

Z1	summer	nest	1348	1262	1304	1255
Z1	summer	nest	1347	1251	1273	1246
Z1	summer	nest	988	967	1047	969
Z1	summer	nest	1429	1414	1360	1403
Z1	summer	nest	1385	1279	1338	1300
Z1	summer	nest	1327	1264	1269	1198
Z1	summer	nest	933	946	869	898
Z1	summer	nest	1234	1159	1263	1171
Z1	summer	nest	829	803	816	766
Z1	summer	nest	1524	1351	1399	1314
Z1	summer	nest	1352	1329	1261	1201
Z1	summer	nest	1159	1142	1221	1173
Z1	summer	nest	1134	1104	1147	1068
Z1	summer	nest	1086	1065	1069	1022
Z1	summer	nest	1291	1232	1282	1196
Z1	summer	nest	861	882	898	803
Z1	summer	nest	887	884	884	836
Z1	summer	nest	1170	1145	1204	1122
Z1	summer	nest	1436	1346	1389	1331
Z1	summer	nest	971	894	943	841
Z1	summer	nest	1048	1040	1083	1016
Z1	summer	nest	1027	1024	1036	942
Z1	summer	nest	1115	1078	1129	1013
Z1	summer	nest	1015	997	1043	894
Z1	summer	nest	1531	1404	1428	1447
L7	spring	nest	960	932	1003	983
L7	spring	nest	1499	1293	1446	1269
L7	spring	nest	1333	1212	1351	1256
L7	spring	nest	1408	1308	1353	1275
L7	spring	nest	1438	1424	1412	1308
L7	spring	nest	1007	995	973	1006
L7	spring	nest	1588	1370	1400	1312
L7	spring	nest	902	957	948	862
L7	spring	nest	951	921	921	921
L7	spring	nest	1401	1282	1279	1237
L7	spring	nest	1517	1461	1422	1380
L7	spring	nest	1051	1066	1051	981
L7	spring	nest	1601	1440	1487	1379
L7	spring	nest	1542	1407	1490	1379
L7	spring	nest	1429	1198	1398	1325
L7	spring	nest	1080	1038	1103	1023
L7	spring	nest	1502	1421	1394	1275
L7	spring	nest	1339	1213	1243	1163

L7	spring	nest	1148	1080	1180	1064
L7	spring	nest	1483	1435	1410	1351
L7	spring	nest	1662	1565	1485	1341
L7	spring	nest	1603	1498	1535	1412
L7	spring	nest	1076	1071	908	881
L7	spring	nest	1600	1520	1516	1411
L7	spring	nest	1111	1119	1134	1053
L7	spring	nest	1460	1359	1451	1362
L7	spring	nest	1501	1434	1412	1306
L7	spring	nest	1276	1273	1288	1226
L7	spring	nest	1210	1204	1261	1118
L7	spring	nest	1194	1132	1183	1136
L7	spring	nest	1584	1465	1477	1402
L7	spring	nest	1482	1401	1390	1318
L7	spring	nest	1270	1174	1345	1212
L7	spring	nest	1175	1121	1082	1108
L7	spring	nest	1233	1103	1268	1194
L7	spring	nest	1420	1333	1355	1275
L7	spring	nest	1258	1257	1292	1178
L7	spring	nest	1461	1273	1375	1296
L7	spring	nest	1074	1003	1098	1070
L7	spring	nest	1240	1228	1198	1108
L7	spring	nest	1261	1148	1209	1093
L7	spring	nest	1508	1393	1428	1388
L7	spring	nest	1544	1518	1471	1309
L7	spring	nest	859	845	910	777
L7	spring	nest	1352	1257	1310	1258
L7	spring	nest	1441	1276	1382	1276
L7	spring	nest	1160	1149	1193	1093
L7	spring	nest	1606	1440	1474	1370
L7	spring	nest	946	906	796	716
L7	spring	nest	1223	1160	1204	1153
L7	spring	trail	1402	1384	1368	1337
L7	spring	trail	971	1013	856	772
L7	spring	trail	1446	1263	1327	1240
L7	spring	trail	1176	1171	973	879
L7	spring	trail	1356	1293	1332	1301
L7	spring	trail	928	902	978	903
L7	spring	trail	1304	1217	1301	1231
L7	spring	trail	1427	1352	1405	1298
L7	spring	trail	1457	1330	1443	1317
L7	spring	trail	1216	1178	1241	1198
L7	spring	trail	1204	1201	1281	1216

L7	spring	trail	1139	1143	1151	1089
L7	spring	trail	1460	1280	1399	1300
L7	spring	trail	1199	1170	1214	1137
L7	spring	trail	1593	1469	1507	1441
L7	spring	trail	1296	1287	1311	1238
L7	spring	trail	1521	1416	1545	1419
L7	spring	trail	1235	1183	1276	1168
L7	spring	trail	1498	1460	1413	1360
L7	spring	trail	1413	1324	1395	1325
L7	spring	trail	1099	1072	1162	1036
L7	spring	trail	1547	1490	1457	1363
L7	spring	trail	978	941	1002	902
L7	spring	trail	1366	1352	1335	1270
L7	spring	trail	1075	1005	1133	1014
L7	spring	trail	1287	1254	1339	1234
L7	spring	trail	1410	1304	1354	1312
L7	spring	trail	1433	1371	1374	1263
L7	spring	trail	1451	1280	1384	1340
L7	spring	trail	1061	997	1068	1028
L7	spring	trail	1471	1387	1387	1299
L7	spring	trail	1022	1009	1045	938
L7	spring	trail	1456	1315	1399	1295
L7	spring	trail	1027	979	1036	988
L7	spring	trail	1225	1152	1180	1077
L7	spring	trail	1495	1363	1409	1413
L7	spring	trail	1358	1289	1339	1224
L7	spring	trail	1385	1296	1352	1324
L7	spring	trail	1455	1405	1390	1349
L7	spring	trail	901	934	889	866
L7	spring	trail	1518	1341	1452	1384
L7	spring	trail	1293	1170	1253	1152
L7	spring	trail	1429	1279	1410	1275
L7	spring	trail	1517	1416	1436	1332
L7	spring	trail	1457	1371	1457	1336
L7	spring	trail	1302	1222	1281	1264
L7	spring	trail	1399	1238	1339	1283
L7	spring	trail	1052	1068	1097	1014
L7	spring	trail	1410	1304	1342	1198
L7	spring	trail	1139	1036	1109	1073
L7	summer	nest	1377	1291	1401	1281
L7	summer	nest	1308	1240	1295	1176
L7	summer	nest	1531	1423	1441	1371
L7	summer	nest	1227	1178	1163	1221

L7	summer	nest	1423	1298	1404	1238
L7	summer	nest	1341	1294	1289	1209
L7	summer	nest	1466	1359	1328	1313
L7	summer	nest	1540	1434	1459	1360
L7	summer	nest	1091	1032	1085	997
L7	summer	nest	1042	1028	963	790
L7	summer	nest	1561	1401	1455	1431
L7	summer	nest	1589	1437	1549	1403
L7	summer	nest	1164	1129	1168	1107
L7	summer	nest	779	817	804	779
L7	summer	nest	861	862	889	810
L7	summer	nest	1398	1339	1343	1250
L7	summer	nest	934	917	763	963
L7	summer	nest	1416	1354	1401	1314
L7	summer	nest	1421	1281	1338	1261
L7	summer	nest	899	847	901	885
L7	summer	nest	1340	1247	1302	1252
L7	summer	nest	1408	1280	1365	1295
L7	summer	nest	1363	1285	1356	1238
L7	summer	nest	1386	1251	1353	1246
L7	summer	nest	876	869	892	810
L7	summer	nest	1004	1030	1072	948
L7	summer	nest	1501	1420	1421	1395
L7	summer	nest	1444	1323	1389	1299
L7	summer	nest	1408	1315	1321	1304
L7	summer	nest	1407	1281	1348	1301
L7	summer	nest	963	925	1003	959
L7	summer	nest	1116	1067	1117	989
L7	summer	nest	1122	1107	1184	1093
L7	summer	nest	1559	1407	1476	1406
L7	summer	nest	927	917	920	867
L7	summer	nest	1449	1295	1426	1303
L7	summer	nest	1424	1351	1363	1330
L7	summer	nest	992	999	1023	968
L7	summer	nest	1314	1301	1346	1257
L7	summer	nest	1475	1315	1431	1325
L7	summer	nest	1216	1163	1209	1148
L7	summer	nest	1377	1310	1339	1286
L7	summer	nest	844	816	837	796
L7	summer	nest	1515	1368	1408	1359
L7	summer	nest	1363	1260	1335	1256
L7	summer	nest	1434	1360	1378	1294
L7	summer	nest	1428	1332	1407	1257

L7	summer	nest	1448	1356	1422	1295
L7	summer	nest	1497	1391	1448	1319
L7	summer	nest	1484	1411	1420	1349
L1	spring	nest	1240	1185	1200	1117
L1	spring	nest	1517	1466	1473	1351
L1	spring	nest	1543	1377	1488	1359
L1	spring	nest	1435	1358	1390	1273
L1	spring	nest	1133	1013	1132	1051
L1	spring	nest	1233	1164	1106	1073
L1	spring	nest	1317	1198	1280	1176
L1	spring	nest	1533	1461	1426	1309
L1	spring	nest	1325	1310	1325	1202
L1	spring	nest	1473	1384	1370	1319
L1	spring	nest	1101	1047	1141	1096
L1	spring	nest	1219	1259	1247	1170
L1	spring	nest	1322	1207	1204	1188
L1	spring	nest	1470	1374	1361	1296
L1	spring	nest	1293	1244	1206	1105
L1	spring	nest	1453	1378	1340	1302
L1	spring	nest	1339	1353	1343	1204
L1	spring	nest	1451	1359	1386	1294
L1	spring	nest	894	905	885	849
L1	spring	nest	1265	1223	1192	1153
L1	spring	nest	1505	1410	1450	1273
L1	spring	nest	1582	1384	1398	1361
L1	spring	nest	1395	1350	1354	1226
L1	spring	nest	1257	1205	1225	1103
L1	spring	nest	1248	1208	1192	1130
L1	spring	nest	1310	1272	1227	1126
L1	spring	nest	1422	1287	1306	1166
L1	spring	nest	1109	1082	1047	1014
L1	spring	nest	1211	1151	1203	1066
L1	spring	nest	1157	1159	1138	1053
L1	spring	nest	1121	1111	1115	1073
L1	spring	nest	1349	1309	1327	1226
L1	spring	nest	1436	1375	1312	1268
L1	spring	nest	1383	1299	1329	1292
L1	spring	nest	1324	1240	1302	1195
L1	spring	nest	890	914	905	874
L1	spring	nest	1526	1403	1306	1314
L1	spring	nest	1436	1320	1346	1227
L1	spring	nest	1434	1342	1337	1190
L1	spring	nest	1296	1280	1259	1236

L1	spring	nest	1335	1287	1309	1245
L1	spring	nest	1112	1112	1103	1025
L1	spring	nest	1278	1232	1249	1158
L1	spring	nest	1377	1321	1342	1283
L1	spring	nest	1457	1428	1225	1058
L1	spring	nest	1203	1166	1202	1062
L1	spring	nest	1261	1204	1226	1163
L1	spring	nest	1349	1273	1283	1250
L1	spring	trail	1278	1180	1309	1167
L1	spring	trail	1282	1237	1225	1154
L1	spring	trail	1415	1332	1430	1268
L1	spring	trail	1255	1168	1250	1155
L1	spring	trail	1103	1085	1162	1043
L1	spring	trail	1188	1141	1126	1024
L1	spring	trail	1550	1423	1405	1366
L1	spring	trail	1424	1319	1141	999
L1	spring	trail	1179	1182	1223	1086
L1	spring	trail	1527	1380	1401	1287
L1	spring	trail	1459	1422	1211	1086
L1	spring	trail	1227	1229	1265	1097
L1	spring	trail	1328	1289	1208	1175
L1	spring	trail	1456	1398	1332	1329
L1	spring	trail	1319	1246	1283	1146
L1	spring	trail	1435	1370	1375	1221
L1	spring	trail	1213	1152	1191	1051
L1	spring	trail	1200	1125	1204	1142
L1	spring	trail	939	945	941	930
L1	spring	trail	1198	1174	1204	1085
L1	spring	trail	1099	1087	1114	999
L1	spring	trail	1334	1265	1372	1228
L1	spring	trail	1241	1184	1212	1093
L1	spring	trail	1440	1310	1401	1270
L1	spring	trail	889	870	890	840
L1	spring	trail	1032	1052	1061	1002
L1	spring	trail	1332	1318	1337	1230
L1	spring	trail	1352	1229	1233	1158
L1	spring	trail	1423	1334	1325	1222
L1	spring	trail	1470	1369	1438	1284
L1	spring	trail	1166	1159	1175	1053
L1	spring	trail	1383	1284	1359	1208
L1	spring	trail	1366	1335	1200	1160
L1	spring	trail	1504	1363	1426	1314
L1	spring	trail	1401	1302	1343	1234

L1	spring	trail	1501	1427	1340	1298
L1	spring	trail	1342	1225	1290	1223
L1	spring	trail	1478	1387	1424	1343
L1	spring	trail	1311	1263	1302	1209
L1	spring	trail	981	954	973	955
L1	spring	trail	1422	1358	1376	1311
L1	spring	trail	953	975	954	931
L1	spring	trail	1413	1229	1358	1306
L1	spring	trail	1377	1263	1335	1264
L1	spring	trail	1315	1281	1300	1203
L1	spring	trail	1258	1209	1249	1141
L1	spring	trail	1395	1284	1377	1239
L1	spring	trail	1237	1194	1208	1131
L1	spring	trail	1464	1390	1345	1310
L1	spring	trail	1093	1099	1102	973
L1	spring	trail	1464	1390	1345	1310
L1	spring	trail	1093	1099	1102	973
L1	summer	nest	1376	1316	1342	1319
L1	summer	nest	1555	1428	1417	1330
L1	summer	nest	1235	1210	1221	1106
L1	summer	nest	1216	1153	1199	1176
L1	summer	nest	1152	1106	1195	1062
L1	summer	nest	1221	1199	1190	1126
L1	summer	nest	825	822	712	606
L1	summer	nest	1287	1268	1253	1178
L1	summer	nest	1368	1323	1329	1226
L1	summer	nest	1366	1204	1329	1227
L1	summer	nest	1466	1380	1415	1314
L1	summer	nest	1241	1188	1035	961
L1	summer	nest	1168	1140	1132	1043
L1	summer	nest	1387	1327	1312	1273
L1	summer	nest	1592	1483	1492	1431
L1	summer	nest	1330	1294	1327	1222
L1	summer	nest	1314	1267	1277	1215
L1	summer	nest	1273	1224	1266	1210
L1	summer	nest	1279	1183	1236	1183
L1	summer	nest	1256	1189	1205	1178
L1	summer	nest	1535	1406	1454	1367
L1	summer	nest	1392	1249	1325	1188
L1	summer	nest	1537	1367	1460	1352
L1	summer	nest	1350	1307	1347	1206
L1	summer	nest	1455	1409	1412	1340
L1	summer	nest	1273	1268	1263	1176

L1	summer	nest	1157	1128	1141	1107
L1	summer	nest	1308	1234	1277	1231
L1	summer	nest	1179	1127	1140	1065
L1	summer	nest	941	937	976	863
L1	summer	nest	1388	1352	1328	1224
L1	summer	nest	1459	1322	1371	1312
L1	summer	nest	1057	1019	1112	979
L1	summer	nest	1239	1229	1121	1107
L1	summer	nest	1213	1160	1180	1139
L1	summer	nest	1255	1199	1230	1223
L1	summer	nest	1400	1321	1376	1259
L1	summer	nest	1307	1188	1274	1176
L1	summer	nest	1400	1360	1296	1294
L1	summer	nest	1303	1259	1249	1234
L1	summer	nest	1415	1308	1355	1276
L1	summer	nest	1446	1395	1371	1270
L1	summer	nest	1383	1359	1367	1254
L1	summer	nest	1347	1256	1219	1219
L1	summer	nest	898	932	878	866
L1	summer	nest	959	938	955	844
L1	summer	nest	1231	1241	1247	1143
L1	summer	nest	1471	1363	1484	1312
L1	summer	nest	1391	1328	1302	1273
L1	summer	nest	973	1000	1018	901
L1	summer	after attack	1498	1406	1406	1315
L1	summer	after attack	1380	1375	1364	1235
L1	summer	after attack	1367	1273	1274	1242
L1	summer	after attack	1233	1141	1175	1101
L1	summer	after attack	1312	1239	1093	956
L1	summer	after attack	1410	1351	1375	1241
L1	summer	after attack	1330	1202	1276	1198
L1	summer	after attack	1053	1091	1099	993
L1	summer	after attack	1154	1149	1148	1093
L1	summer	after attack	1093	1051	1105	990
L1	summer	after attack	1334	1233	1297	1165
L1	summer	after attack	1172	1123	1169	1069
L1	summer	after attack	1174	1165	1165	1115
L1	summer	after attack	1108	1060	1135	1039
L1	summer	after attack	933	927	987	919
L1	summer	after attack	1403	1325	1395	1369
L1	summer	after attack	909	908	895	862
L1	summer	after attack	1152	1078	1095	1012
L1	summer	after attack	1290	1267	1270	1215

L1	summer	after attack	1330	1282	1214	1176
L1	summer	after attack	1065	1041	990	965
L1	summer	after attack	1557	1486	1439	1425
L1	summer	after attack	1513	1279	1414	1286
L1	summer	after attack	1116	1115	1145	1045
L1	summer	after attack	1386	1321	1302	1203
L1	summer	after attack	1224	1128	1174	1111
L1	summer	after attack	1529	1330	1426	1353
L1	summer	after attack	921	900	888	831
L1	summer	after attack	1507	1367	1427	1302
L1	summer	after attack	1330	1374	1341	1241
L1	summer	after attack	907	911	882	964
L1	summer	after attack	875	857	875	843
L1	summer	after attack	1436	1361	1381	1276
L1	summer	after attack	1418	1336	1329	1305
L1	summer	after attack	1126	1074	1135	1076
L1	summer	after attack	1517	1450	1422	1358
L1	summer	after attack	1341	1276	1313	1287
L1	summer	after attack	1304	1238	1287	1202
L1	summer	after attack	1137	1033	1136	1107
L1	summer	after attack	1228	1123	1196	1135
L1	summer	after attack	963	920	981	907
L1	summer	after attack	999	996	1046	934
L1	summer	after attack	1507	1403	1431	1353
L1	summer	after attack	1560	1478	1444	1395
L1	summer	after attack	991	1030	1066	939
L1	summer	after attack	1499	1367	1437	1346
L1	summer	after attack	1270	1261	1299	1233
L1	summer	after attack	1000	1021	971	929
L1	summer	after attack	1427	1347	1216	1040
L1	summer	after attack	1392	1305	1344	1267
L2	spring	nest	1169	1081	1151	1080
L2	spring	nest	1447	1445	1373	1200
L2	spring	nest	1450	1426	1366	1150
L2	spring	nest	1229	1175	1201	1077
L2	spring	nest	1475	1373	1407	1333
L2	spring	nest	1023	949	970	911
L2	spring	nest	1433	1249	1381	1262
L2	spring	nest	1356	1259	1365	1219
L2	spring	nest	1171	1095	1252	1075
L2	spring	nest	1446	1421	1398	1272
L2	spring	nest	1453	1369	1432	1253
L2	spring	nest	1508	1470	1493	1235

L2	spring	nest	1448	1436	1365	1259
L2	spring	nest	1494	1302	1384	1194
L2	spring	nest	1400	1341	1366	1227
L2	spring	nest	897	886	895	844
L2	spring	nest	926	905	923	851
L2	spring	nest	1436	1394	1315	1292
L2	spring	nest	1420	1362	1259	1265
L2	spring	nest	1106	1115	975	966
L2	spring	nest	1335	1259	1336	1183
L2	spring	nest	1425	1300	1424	1356
L2	spring	nest	1126	1109	1141	1030
L2	spring	nest	1258	1264	1282	1224
L2	spring	nest	1320	1246	1300	1200
L2	spring	nest	1281	1254	1273	1160
L2	spring	nest	1512	1492	1507	1355
L2	spring	nest	972	1010	1055	925
L2	spring	nest	1435	1385	1383	1311
L2	spring	nest	1466	1347	1431	1311
L2	spring	nest	1206	1209	1235	1179
L2	spring	nest	1492	1355	1431	1339
L2	spring	nest	1240	1105	1199	1150
L2	spring	nest	1247	1225	1218	1151
L2	spring	nest	1282	1262	1278	1220
L2	spring	nest	1506	1407	1400	1295
L2	spring	nest	1266	1195	1266	1160
L2	spring	nest	998	1085	1088	983
L2	spring	nest	1001	923	924	848
L2	spring	nest	1249	1208	1289	1204
L2	spring	nest	1257	1167	1245	1125
L2	spring	nest	1237	1237	1265	1135
L2	spring	nest	1331	1312	1376	1249
L2	spring	nest	975	907	1039	958
L2	spring	nest	1125	999	1183	1029
L2	spring	nest	1013	1089	1155	999
L2	spring	nest	1616	1564	1600	1488
L2	spring	nest	1486	1452	1478	1356
L2	spring	nest	878	937	938	844
L2	spring	nest	1401	1473	1478	1255
L2	spring	trail	1276	1247	1258	1242
L2	spring	trail	1467	1343	1408	1309
L2	spring	trail	1206	1187	1217	1160
L2	spring	trail	1305	1378	1365	1246
L2	spring	trail	1337	1265	1319	1225

L2	spring	trail	1533	1446	1518	1388
L2	spring	trail	1121	1068	1171	1106
L2	spring	trail	1200	1241	1262	1185
L2	spring	trail	1453	1388	1446	1275
L2	spring	trail	1324	1308	1438	1289
L2	spring	trail	1412	1332	1385	1295
L2	spring	trail	1490	1409	1464	1410
L2	spring	trail	1409	1327	1192	1092
L2	spring	trail	1198	1134	1190	1113
L2	spring	trail	1361	1315	1318	1210
L2	spring	trail	1348	1321	1322	1226
L2	spring	trail	1367	1360	1367	1270
L2	spring	trail	1416	1327	1438	1314
L2	spring	trail	946	993	981	908
L2	spring	trail	1368	1330	1181	1101
L2	spring	trail	1472	1386	1395	1277
L2	spring	trail	1230	1185	1229	1127
L2	spring	trail	1446	1473	1280	1066
L2	spring	trail	1166	1069	1254	1096
L2	spring	trail	1362	1364	1384	1263
L2	spring	trail	1466	1411	1502	1344
L2	spring	trail	1336	1283	1345	1300
L2	spring	trail	1326	1312	1352	1318
L2	spring	trail	1370	1358	1323	1243
L2	spring	trail	1312	1223	1347	1201
L2	spring	trail	1245	1223	1296	1145
L2	spring	trail	1227	1247	1313	1162
L2	spring	trail	1410	1333	1396	1289
L2	spring	trail	1361	1339	1309	1265
L2	spring	trail	1326	1334	1435	1278
L2	spring	trail	1430	1364	1394	1312
L2	spring	trail	1414	1359	1349	1216
L2	spring	trail	1341	1311	1301	1277
L2	spring	trail	1441	1447	1371	1261
L2	spring	trail	1503	1349	1428	1320
L2	spring	trail	954	956	1014	818
L2	spring	trail	1513	1432	1438	1400
L2	spring	trail	1456	1400	1411	1257
L2	spring	trail	1543	1456	1459	1414
L2	spring	trail	1498	1383	1516	1349
L2	spring	trail	948	939	946	949
L2	spring	trail	1470	1406	1363	1274
L2	spring	trail	1545	1424	1498	1463

L2	spring	trail	1503	1394	1388	1333
L2	spring	trail	843	856	851	795
L2	summer	nest	1132	1098	1185	1115
L2	summer	nest	1211	1126	1188	1124
L2	summer	nest	1152	1081	1172	1051
L2	summer	nest	917	920	922	917
L2	summer	nest	1358	1302	1376	1264
L2	summer	nest	1009	948	1004	956
L2	summer	nest	1368	1256	1347	1234
L2	summer	nest	1088	1034	1080	1066
L2	summer	nest	1367	1274	1379	1340
L2	summer	nest	1168	1090	1247	1160
L2	summer	nest	1317	1255	1315	1206
L2	summer	nest	1405	1370	1336	1313
L2	summer	nest	863	851	908	829
L2	summer	nest	1367	1247	1209	1256
L2	summer	nest	1255	1179	1241	1130
L2	summer	nest	1453	1427	1446	1341
L2	summer	nest	1426	1352	1385	1246
L2	summer	nest	1433	1350	1379	1284
L2	summer	nest	1473	1394	1407	1413
L2	summer	nest	1571	1470	1520	1363
L2	summer	nest	1322	1269	1259	1226
L2	summer	nest	1516	1366	1474	1343
L2	summer	nest	1544	1417	1465	1367
L2	summer	nest	1302	1280	1344	1205
L2	summer	nest	1069	987	967	926
L2	summer	nest	1331	1267	1332	1251
L2	summer	nest	1306	1251	1304	1220
L2	summer	nest	1565	1547	1473	1408
L2	summer	nest	1234	1143	1200	1089
L2	summer	nest	1487	1407	1417	1329
L2	summer	nest	1484	1414	1493	1360
L2	summer	nest	1544	1453	1499	1350
L2	summer	nest	1244	1169	1273	1169
L2	summer	nest	1478	1400	1415	1393
L2	summer	nest	1457	1382	1445	1292
L2	summer	nest	1480	1365	1398	1377
L2	summer	nest	1459	1351	1477	1373
L2	summer	nest	1110	1040	1134	984
L2	summer	nest	1335	1259	1341	1235
L2	summer	nest	1467	1412	1418	1363
L2	summer	nest	1450	1338	1402	1291

L2	summer	nest	1404	1367	1376	1322
L2	summer	nest	1309	1281	1340	1282
L2	summer	nest	1376	1246	1377	1243
L2	summer	nest	1220	1170	1254	1107
L2	summer	nest	1027	1056	1066	1002
L2	summer	nest	1500	1402	1429	1317
L2	summer	nest	1282	1199	1286	1217
L2	summer	nest	1089	1012	1069	1021
L2	summer	nest	831	853	733	639
L2	summer	after attack	1421	1388	1391	1356
L2	summer	after attack	1477	1342	1456	1341
L2	summer	after attack	1434	1351	1403	1315
L2	summer	after attack	1436	1340	1436	1394
L2	summer	after attack	1422	1275	1361	1305
L2	summer	after attack	955	959	983	949
L2	summer	after attack	949	935	1016	956
L2	summer	after attack	1053	1003	1093	1024
L2	summer	after attack	1553	1471	1479	1351
L2	summer	after attack	1478	1404	1411	1256
L2	summer	after attack	961	956	946	945
L2	summer	after attack	1539	1426	1486	1401
L2	summer	after attack	1350	1257	1393	1277
L2	summer	after attack	1457	1367	1465	1310
L2	summer	after attack	1407	1300	1355	1296
L2	summer	after attack	1340	1266	1282	1230
L2	summer	after attack	924	879	936	909
L2	summer	after attack	989	1046	1015	966
L2	summer	after attack	1444	1353	1430	1315
L2	summer	after attack	1403	1334	1397	1314
L2	summer	after attack	1077	1035	1140	1066
L2	summer	after attack	1503	1293	1388	1319
L2	summer	after attack	1442	1310	1382	1364
L2	summer	after attack	1545	1347	1413	1386
L2	summer	after attack	1412	1325	1407	1329
L2	summer	after attack	1333	1294	1315	1079
L2	summer	after attack	1399	1266	1376	1304
L2	summer	after attack	1481	1400	1460	1317
L2	summer	after attack	1576	1351	1497	1425
L2	summer	after attack	1440	1370	1392	1356
L2	summer	after attack	1341	1291	1400	1201
L2	summer	after attack	1443	1324	1353	1299
L2	summer	after attack	1180	1086	1207	1121
L2	summer	after attack	904	882	959	871

L2	summer	after attack	1526	1377	1440	1338
L2	summer	after attack	1270	1222	1232	1178
L2	summer	after attack	1261	1136	1256	1126
L2	summer	after attack	1369	1288	1307	1257
L2	summer	after attack	1033	985	1057	1022
L2	summer	after attack	1346	1262	1306	1304
L2	summer	after attack	1469	1325	1454	1375
L2	summer	after attack	1101	1103	1130	1069
L2	summer	after attack	1284	1217	1255	1214
L2	summer	after attack	1470	1447	1508	1450
L2	summer	after attack	1281	1237	1247	1164
L2	summer	after attack	974	979	1049	986
L2	summer	after attack	1483	1399	1443	1441
L2	summer	after attack	1206	1118	1214	1088
L2	summer	after attack	1466	1357	1431	1338
L2	summer	after attack	942	890	967	894
P	spring	nest	1520	1509	1519	1365
P	spring	nest	1508	1381	1456	1303
P	spring	nest	1182	1089	1198	1034
P	spring	nest	1504	1436	1459	1308
P	spring	nest	1609	1566	1535	1365
P	spring	nest	1363	1320	1343	1215
P	spring	nest	1377	1336	1423	1266
P	spring	nest	1268	1256	1252	1082
P	spring	nest	1346	1312	1334	1198
P	spring	nest	1484	1422	1533	1384
P	spring	nest	1556	1445	1494	1349
P	spring	nest	1347	1278	1349	1176
P	spring	nest	1720	1621	1606	1462
P	spring	nest	1377	1300	1400	1264
P	spring	nest	1397	1388	1373	1265
P	spring	nest	1387	1356	1361	1302
P	spring	nest	1013	974	1017	900
P	spring	nest	1397	1259	1382	1235
P	spring	nest	1420	1315	1372	1302
P	spring	nest	1493	1422	1448	1312
P	spring	nest	1384	1194	1396	1282
P	spring	nest	1314	1268	1356	1163
P	spring	nest	1380	1360	1452	1270
P	spring	nest	1469	1401	1463	1317
P	spring	nest	1396	1271	1391	1231
P	spring	nest	1344	1246	1343	1190
P	spring	nest	1306	1223	1275	1187

P	spring	nest	1409	1362	1430	1306
P	spring	nest	1435	1342	1437	1342
P	spring	nest	1703	1531	1530	1400
P	spring	nest	1044	998	1085	948
P	spring	nest	1401	1312	1393	1186
P	spring	nest	1392	1288	1375	1305
P	spring	nest	1572	1467	1396	1300
P	spring	nest	1275	1204	1274	1166
P	spring	nest	1259	1217	1252	1156
P	spring	nest	1409	1336	1390	1302
P	spring	nest	1452	1384	1463	1354
P	spring	nest	1460	1339	1404	1272
P	spring	nest	1394	1313	1353	1273
P	spring	nest	1653	1502	1527	1393
P	spring	nest	1275	1260	1333	1228
P	spring	nest	1509	1405	1447	1257
P	spring	nest	1182	1099	1201	1059
P	spring	nest	1430	1395	1442	1336
P	spring	nest	1352	1269	1353	1268
P	spring	nest	1482	1377	1448	1327
P	spring	nest	1674	1441	1571	1390
P	spring	nest	1651	1497	1558	1420
P	spring	nest	1497	1361	1442	1360
P	spring	trail	1426	1412	1467	1250
P	spring	trail	1369	1318	1380	1211
P	spring	trail	1339	1229	1131	1110
P	spring	trail	1241	1215	1226	1085
P	spring	trail	1519	1462	1512	1437
P	spring	trail	1440	1353	1424	1335
P	spring	trail	1401	1292	1356	1286
P	spring	trail	1318	1275	1368	1228
P	spring	trail	1542	1347	1443	1327
P	spring	trail	1237	1119	1262	1163
P	spring	trail	1402	1275	1451	1327
P	spring	trail	1387	1270	1436	1340
P	spring	trail	1427	1309	1469	1359
P	spring	trail	1653	1578	1506	1466
P	spring	trail	1485	1388	1436	1357
P	spring	trail	1445	1302	1385	1309
P	spring	trail	1429	1343	1400	1371
P	spring	trail	1486	1410	1341	1352
P	spring	trail	1555	1498	1455	1278
P	spring	trail	1339	1311	1339	1257

P	spring	trail	1493	1385	1408	1273
P	spring	trail	1337	1380	1301	1217
P	spring	trail	1432	1410	1527	1329
P	spring	trail	1397	1349	1453	1351
P	spring	trail	1560	1499	1510	1418
P	spring	trail	1436	1401	1499	1348
P	spring	trail	1181	1186	1231	1074
P	spring	trail	1398	1296	1408	1288
P	spring	trail	931	949	994	874
P	spring	trail	1428	1376	1249	1141
P	spring	trail	1437	1430	1484	1377
P	spring	trail	1656	1399	1536	1422
P	spring	trail	1221	1176	1217	1146
P	spring	trail	1552	1457	1502	1370
P	spring	trail	1216	1140	1270	1241
P	spring	trail	1392	1274	1366	1261
P	spring	trail	1407	1292	1429	1279
P	spring	trail	1524	1416	1487	1371
P	spring	trail	1528	1370	1463	1351
P	spring	trail	1089	1048	1114	994
P	spring	trail	1264	1174	1313	1155
P	spring	trail	1512	1438	1409	1297
P	spring	trail	1308	1209	1384	1301
P	spring	trail	1392	1298	1409	1376
P	spring	trail	1397	1384	1473	1228
P	spring	trail	1423	1424	1447	1356
P	spring	trail	1377	1317	1334	1165
P	spring	trail	1430	1359	1386	1280
P	spring	trail	1367	1327	1367	1257
P	spring	trail	1351	1288	1362	1281
R1	spring	nest	1491	1406	1433	1407
R1	spring	nest	1568	1370	1407	1474
R1	spring	nest	1557	1446	1491	1380
R1	spring	nest	1546	1403	1485	1351
R1	spring	nest	1481	1386	1387	1404
R1	spring	nest	1513	1376	1445	1354
R1	spring	nest	1220	1189	1212	1193
R1	spring	nest	1562	1445	1463	1384
R1	spring	nest	1316	1284	1349	1266
R1	spring	nest	1459	1364	1399	1400
R1	spring	nest	1437	1347	1408	1355
R1	spring	nest	1377	1324	1298	1226
R1	spring	nest	1581	1414	1497	1381

R1	spring	nest	1438	1282	1366	1292
R1	spring	nest	1403	1280	1382	1321
R1	spring	nest	1533	1372	1420	1380
R1	spring	nest	1358	1270	1323	1240
R1	spring	nest	873	848	917	879
R1	spring	nest	1234	1190	1199	1101
R1	spring	nest	1480	1351	1411	1343
R1	spring	nest	979	1016	1066	962
R1	spring	nest	1411	1249	1334	1246
R1	spring	nest	1033	1034	1082	966
R1	spring	nest	1523	1406	1436	1302
R1	spring	nest	1498	1422	1444	1310
R1	spring	nest	1380	1312	1385	1300
R1	spring	nest	1480	1298	1368	1334
R1	spring	nest	1419	1296	1420	1239
R1	spring	nest	1473	1375	1419	1308
R1	spring	nest	1066	1061	1105	1019
R1	spring	nest	1021	1044	1089	991
R1	spring	nest	1511	1372	1424	1396
R1	spring	nest	1327	1260	1292	1247
R1	spring	nest	1491	1399	1481	1348
R1	spring	nest	1499	1395	1448	1351
R1	spring	nest	1602	1455	1495	1388
R1	spring	nest	1223	1195	1186	1179
R1	spring	nest	1481	1395	1452	1364
R1	spring	nest	1044	1077	1083	1033
R1	spring	nest	1129	1096	1119	1083
R1	spring	nest	1477	1451	1429	1332
R1	spring	nest	1054	1058	1051	975
R1	spring	nest	1507	1402	1418	1393
R1	spring	nest	1158	1113	1138	1140
R1	spring	nest	1402	1361	1401	1347
R1	spring	nest	1619	1470	1516	1455
R1	spring	nest	1496	1381	1449	1342
R1	spring	nest	1451	1335	1410	1328
R1	spring	nest	1658	1475	1554	1427
R1	spring	nest	960	932	1021	914
R1	spring	trail	1223	1098	1154	1083
R1	spring	trail	1349	1304	1375	1351
R1	spring	trail	1106	1109	1061	1067
R1	spring	trail	1490	1275	1424	1326
R1	spring	trail	1449	1383	1428	1317
R1	spring	trail	1411	1363	1425	1371

R1	spring	trail	1389	1326	1377	1255
R1	spring	trail	1444	1364	1438	1311
R1	spring	trail	1420	1395	1457	1416
R1	spring	trail	1295	1246	1292	1178
R1	spring	trail	1559	1422	1494	1359
R1	spring	trail	1334	1229	1280	1183
R1	spring	trail	1327	1303	1233	1151
R1	spring	trail	1268	1215	1238	1114
R1	spring	trail	1411	1340	1388	1348
R1	spring	trail	1245	1233	1270	1168
R1	spring	trail	1141	1096	1152	1077
R1	spring	trail	1175	1174	1198	1116
R1	spring	trail	1549	1400	1473	1325
R1	spring	trail	1348	1245	1310	1271
R1	spring	trail	1497	1407	1461	1387
R1	spring	trail	1197	1143	1207	1089
R1	spring	trail	1508	1444	1486	1305
R1	spring	trail	1177	1174	1214	1174
R1	spring	trail	1321	1290	1338	1205
R1	spring	trail	1166	1190	1213	1118
R1	spring	trail	1342	1254	1283	1292
R1	spring	trail	1377	1306	1327	1236
R1	spring	trail	1430	1324	1416	1343
R1	spring	trail	1375	1377	1430	1283
R1	spring	trail	1273	1279	1359	1343
R1	spring	trail	1107	1103	1090	1052
R1	spring	trail	1438	1325	1411	1316
R1	spring	trail	1632	1502	1527	1437
R1	spring	trail	1434	1321	1413	1301
R1	spring	trail	1170	1147	1163	1190
R1	spring	trail	1252	1200	1221	1290
R1	spring	trail	1135	1054	1151	1094
R1	spring	trail	1522	1443	1443	1383
R1	spring	trail	1118	1093	1125	1093
R1	spring	trail	1371	1250	1412	1248
R1	spring	trail	1639	1505	1596	1422
R1	spring	trail	1418	1348	1406	1383
R1	spring	trail	1270	1232	1256	1243
R1	spring	trail	949	957	983	970
R1	spring	trail	1293	1305	1273	1186
R1	spring	trail	1237	1300	1192	1203
R1	spring	trail	1493	1418	1424	1364
R1	spring	trail	1133	1149	1162	1116

R1	spring	trail	1328	1285	1328	1258
R1	summer	nest	1396	1372	1429	1347
R1	summer	nest	1335	1291	1356	1340
R1	summer	nest	1522	1401	1387	1424
R1	summer	nest	869	856	910	851
R1	summer	nest	1284	1235	1226	1140
R1	summer	nest	1191	1154	1162	1169
R1	summer	nest	1240	1207	1235	1182
R1	summer	nest	1267	1202	1259	1257
R1	summer	nest	1297	1213	1242	1217
R1	summer	nest	1474	1430	1419	1358
R1	summer	nest	900	898	928	902
R1	summer	nest	1479	1397	1459	1386
R1	summer	nest	1331	1280	1332	1257
R1	summer	nest	920	934	979	936
R1	summer	nest	1001	921	927	961
R1	summer	nest	927	927	978	938
R1	summer	nest	1532	1429	1477	1455
R1	summer	nest	1486	1314	1440	1363
R1	summer	nest	1275	1196	1297	1232
R1	summer	nest	1353	1297	1327	1307
R1	summer	nest	1030	963	1050	954
R1	summer	nest	1525	1462	1472	1324
R1	summer	nest	1303	1270	1344	1320
R1	summer	nest	962	945	1014	990
R1	summer	nest	1639	1485	1478	1448
R1	summer	nest	1267	1234	1242	1203
R1	summer	nest	1168	1129	1160	1108
R1	summer	nest	1211	1165	1244	1123
R1	summer	nest	1539	1422	1448	1367
R1	summer	nest	852	841	903	872
R1	summer	nest	1546	1424	1523	1433
R1	summer	nest	1269	1246	1296	1226
R1	summer	nest	1553	1453	1441	1380
R1	summer	nest	895	900	843	778
R1	summer	nest	879	885	914	876
R1	summer	nest	1494	1398	1399	1344
R1	summer	nest	1486	1431	1428	1393
R1	summer	nest	1058	971	1096	1049
R1	summer	nest	1459	1387	1416	1414
R1	summer	nest	1276	1251	1294	1297
R1	summer	nest	948	946	928	876
R1	summer	nest	1473	1338	1440	1343

R1	summer	nest	1368	1329	1391	1372
R1	summer	nest	922	896	919	898
R1	summer	nest	1166	1093	1211	1133
R1	summer	nest	967	976	993	913
R1	summer	nest	1555	1438	1479	1470
R1	summer	nest	1411	1300	1412	1279
R1	summer	nest	944	962	962	925
R1	summer	nest	1534	1447	1445	1419
R1	summer	after attack	1418	1272	1400	1300
R1	summer	after attack	1464	1383	1362	1312
R1	summer	after attack	1454	1389	1282	1350
R1	summer	after attack	1527	1504	1467	1362
R1	summer	after attack	1461	1355	1440	1351
R1	summer	after attack	1339	1274	1300	1241
R1	summer	after attack	1481	1455	1463	1405
R1	summer	after attack	1419	1298	1448	1320
R1	summer	after attack	1454	1417	1399	1311
R1	summer	after attack	1408	1309	1345	1264
R1	summer	after attack	1531	1459	1435	1369
R1	summer	after attack	1444	1464	1415	1336
R1	summer	after attack	936	896	919	889
R1	summer	after attack	1369	1314	1353	1249
R1	summer	after attack	1511	1430	1455	1412
R1	summer	after attack	1326	1305	1261	1242
R1	summer	after attack	1515	1493	1472	1393
R1	summer	after attack	1388	1364	1386	1273
R1	summer	after attack	1683	1570	1534	1452
R1	summer	after attack	1449	1356	1365	1328
R1	summer	after attack	1401	1414	1422	1319
R1	summer	after attack	1498	1340	1413	1343
R1	summer	after attack	1525	1382	1436	1349
R1	summer	after attack	1275	1204	1317	1229
R1	summer	after attack	919	913	949	877
R1	summer	after attack	1318	1284	1345	1232
R1	summer	after attack	1593	1431	1514	1424
R1	summer	after attack	1470	1348	1385	1315
R1	summer	after attack	1447	1428	1453	1425
R1	summer	after attack	1383	1351	1342	1330
R1	summer	after attack	1368	1315	1367	1249
R1	summer	after attack	1481	1420	1398	1439
R1	summer	after attack	915	876	934	891
R1	summer	after attack	1359	1327	1407	1299
R1	summer	after attack	1479	1392	1475	1433

R1	summer	after attack	1448	1366	1387	1317
R1	summer	after attack	1262	1233	1337	1261
R1	summer	after attack	961	955	1006	983
R1	summer	after attack	1270	1174	1258	1228
R1	summer	after attack	1446	1377	1460	1339
R1	summer	after attack	1604	1404	1506	1465
R1	summer	after attack	1045	1001	1098	1047
R1	summer	after attack	1072	1025	1019	1053
R1	summer	after attack	1561	1401	1439	1422
R1	summer	after attack	1321	1309	1351	1294
R1	summer	after attack	1131	1083	1114	1073
R1	summer	after attack	1519	1398	1448	1378
R1	summer	after attack	1428	1364	1405	1377
R1	summer	after attack	1443	1437	1470	1370
R1	summer	after attack	1338	1221	1304	1281
R2	spring	nest	1245	1230	1277	1253
R2	spring	nest	1225	1152	1276	1174
R2	spring	nest	1449	1333	1426	1359
R2	spring	nest	1516	1412	1519	1386
R2	spring	nest	873	898	952	887
R2	spring	nest	1028	982	1038	976
R2	spring	nest	1303	1246	1358	1211
R2	spring	nest	879	890	910	828
R2	spring	nest	1458	1413	1509	1378
R2	spring	nest	959	961	1039	955
R2	spring	nest	963	980	1004	929
R2	spring	nest	1430	1279	1498	1304
R2	spring	nest	1402	1326	1416	1315
R2	spring	nest	979	946	1075	979
R2	spring	nest	1542	1392	1507	1480
R2	spring	nest	839	839	848	807
R2	spring	nest	1295	1246	1317	1295
R2	spring	nest	1452	1334	1425	1325
R2	spring	nest	1273	1112	1262	1179
R2	spring	nest	1277	1222	1306	1129
R2	spring	nest	1215	1238	1277	1124
R2	spring	nest	1367	1295	1406	1293
R2	spring	nest	1009	1006	1071	998
R2	spring	nest	1251	1231	1302	1200
R2	spring	nest	1359	1292	1379	1314
R2	spring	nest	1083	1110	1191	1079
R2	spring	nest	1292	1241	1287	1194
R2	spring	nest	1399	1342	1438	1312

R2	spring	nest	1315	1298	1319	1240
R2	spring	nest	1272	1194	1307	1168
R2	spring	nest	1431	1278	1317	1320
R2	spring	nest	1534	1507	1445	1415
R2	spring	nest	1028	1028	1076	991
R2	spring	nest	1154	1190	1262	1122
R2	spring	nest	965	968	926	899
R2	spring	nest	1110	1098	1093	1097
R2	spring	nest	1197	1167	1293	1145
R2	spring	nest	1388	1396	1433	1340
R2	spring	nest	1062	1022	1111	1084
R2	spring	nest	1254	1207	1308	1180
R2	spring	nest	1427	1328	1458	1247
R2	spring	nest	1517	1397	1494	1359
R2	spring	nest	931	940	906	911
R2	spring	nest	1256	1203	1302	1285
R2	spring	nest	1182	1175	1190	1173
R2	spring	nest	1125	1103	1116	1065
R2	spring	nest	952	1019	956	908
R2	spring	nest	1519	1393	1462	1450
R2	spring	nest	997	1003	1035	982
R2	spring	nest	1445	1385	1452	1356
R2	spring	trail	1395	1399	1301	1283
R2	spring	trail	1149	1125	1192	1127
R2	spring	trail	1510	1448	1490	1393
R2	spring	trail	1372	1324	1376	1327
R2	spring	trail	992	1035	1086	900
R2	spring	trail	1306	1264	1333	1251
R2	spring	trail	1389	1217	1347	1159
R2	spring	trail	885	879	938	857
R2	spring	trail	1223	1225	1237	1174
R2	spring	trail	1318	1263	1293	1236
R2	spring	trail	1336	1314	1384	1280
R2	spring	trail	1158	1135	1207	1064
R2	spring	trail	1438	1370	1404	1305
R2	spring	trail	844	836	903	833
R2	spring	trail	1473	1387	1490	1359
R2	spring	trail	1223	1227	1285	1208
R2	spring	trail	1288	1246	1348	1223
R2	spring	trail	1186	1136	1237	1016
R2	spring	trail	1400	1370	1490	1324
R2	spring	trail	1317	1210	1263	1221
R2	spring	trail	1596	1544	1461	1371

R2	spring	trail	916	940	972	907
R2	spring	trail	1302	1253	1374	1167
R2	spring	trail	863	893	903	824
R2	spring	trail	1486	1410	1506	1372
R2	spring	trail	1170	1147	1240	1125
R2	spring	trail	1506	1463	1389	1422
R2	spring	trail	1075	1133	1261	1080
R2	spring	trail	1226	1179	1252	1223
R2	spring	trail	1197	1218	1296	1227
R2	spring	trail	920	939	969	938
R2	spring	trail	1503	1317	1480	1310
R2	spring	trail	1264	1211	1241	1168
R2	spring	trail	1180	1140	1205	1124
R2	spring	trail	1451	1469	1445	1361
R2	spring	trail	1309	1202	1315	1245
R2	spring	trail	1225	1208	1264	1188
R2	spring	trail	1504	1406	1484	1336
R2	spring	trail	1400	1328	1309	1258
R2	spring	trail	1296	1295	1211	1202
R2	spring	trail	1309	1325	1406	1343
R2	spring	trail	1257	1204	1274	1224
R2	spring	trail	1152	1115	1242	1151
R2	spring	trail	1075	1045	1106	1020
R2	spring	trail	1163	1053	1273	1149
R2	spring	trail	1375	1354	1485	1282
R2	spring	trail	1528	1449	1516	1485
R2	spring	trail	1254	1259	1317	1233
R2	spring	trail	1359	1326	1386	1329
R2	spring	trail	1378	1310	1377	1276
R2	summer	nest	1339	1296	1351	1286
R2	summer	nest	972	939	1022	955
R2	summer	nest	1161	1187	1235	1159
R2	summer	nest	849	863	881	838
R2	summer	nest	890	891	932	895
R2	summer	nest	1077	1035	1159	1029
R2	summer	nest	1339	1274	1350	1296
R2	summer	nest	1424	1333	1385	1350
R2	summer	nest	922	945	972	907
R2	summer	nest	1494	1393	1483	1371
R2	summer	nest	1281	1238	1274	1218
R2	summer	nest	1441	1344	1425	1437
R2	summer	nest	1413	1314	1400	1300
R2	summer	nest	1450	1388	1357	1395

R2	summer	nest	1473	1340	1384	1321
R2	summer	nest	1182	1178	1197	1108
R2	summer	nest	1112	1118	1154	1062
R2	summer	nest	1330	1301	1115	1025
R2	summer	nest	1156	1119	1204	1128
R2	summer	nest	1384	1270	1387	1291
R2	summer	nest	1323	1271	1329	1282
R2	summer	nest	1435	1333	1393	1390
R2	summer	nest	1170	1123	1184	1150
R2	summer	nest	991	1005	1002	878
R2	summer	nest	957	963	1029	928
R2	summer	nest	1397	1276	1393	1303
R2	summer	nest	1329	1218	1303	1235
R2	summer	nest	869	862	943	843
R2	summer	nest	1511	1374	1474	1418
R2	summer	nest	1499	1402	1436	1405
R2	summer	nest	1467	1430	1403	1365
R2	summer	nest	1400	1270	1398	1371
R2	summer	nest	1011	968	1036	979
R2	summer	nest	1056	1048	992	994
R2	summer	nest	950	905	1037	974
R2	summer	nest	1274	1249	1311	1279
R2	summer	nest	887	890	918	846
R2	summer	nest	912	924	912	855
R2	summer	nest	872	865	943	919
R2	summer	nest	1426	1379	1441	1375
R2	summer	nest	1084	1048	1099	1065
R2	summer	nest	862	849	739	691
R2	summer	nest	1381	1302	1421	1268
R2	summer	nest	1395	1325	1347	1242
R2	summer	nest	1234	1248	1331	1273
R2	summer	nest	858	870	857	817
R2	summer	nest	876	942	939	935
R2	summer	nest	907	896	938	853
R2	summer	nest	1067	1081	1107	1067
R2	summer	nest	1495	1393	1434	1378
R2	summer	after attack	1448	1360	1447	1315
R2	summer	after attack	825	772	879	817
R2	summer	after attack	1365	1285	1350	1282
R2	summer	after attack	994	968	1008	969
R2	summer	after attack	1469	1356	1410	1321
R2	summer	after attack	1103	1050	1146	1075
R2	summer	after attack	1497	1368	1455	1389

R2	summer	after attack	887	893	793	678
R2	summer	after attack	983	976	1009	953
R2	summer	after attack	1417	1335	1353	1223
R2	summer	after attack	1391	1291	1396	1234
R2	summer	after attack	1089	1088	1143	1056
R2	summer	after attack	1468	1339	1391	1304
R2	summer	after attack	1315	1236	1356	1216
R2	summer	after attack	894	891	949	888
R2	summer	after attack	1110	1093	1137	1062
R2	summer	after attack	1630	1508	1551	1459
R2	summer	after attack	1276	1238	1332	1209
R2	summer	after attack	957	930	974	1025
R2	summer	after attack	906	907	827	841
R2	summer	after attack	1078	1054	1021	998
R2	summer	after attack	1549	1370	1437	1395
R2	summer	after attack	1046	1017	1051	981
R2	summer	after attack	1375	1224	1408	1303
R2	summer	after attack	1502	1269	1459	1310
R2	summer	after attack	1355	1276	1375	1238
R2	summer	after attack	1515	1440	1534	1391
R2	summer	after attack	894	897	921	860
R2	summer	after attack	979	978	1000	894
R2	summer	after attack	920	894	989	917
R2	summer	after attack	1034	1006	1047	995
R2	summer	after attack	1138	1093	1184	1041
R2	summer	after attack	1288	1208	1299	1215
R2	summer	after attack	1430	1334	1431	1386
R2	summer	after attack	963	920	992	943
R2	summer	after attack	1368	1255	1322	1289
R2	summer	after attack	1383	1275	1340	1291
R2	summer	after attack	1112	1113	1216	1105
R2	summer	after attack	1454	1366	1465	1372
R2	summer	after attack	791	798	690	650
R2	summer	after attack	1444	1367	1420	1302
R2	summer	after attack	1105	1073	1201	1125
R2	summer	after attack	1615	1472	1474	1412
R2	summer	after attack	837	815	942	867
R2	summer	after attack	1289	1240	1333	1265
R2	summer	after attack	944	963	799	889
R2	summer	after attack	1381	1248	1376	1297
R2	summer	after attack	1148	1110	1181	1108
R2	summer	after attack	1028	1022	1068	994
R2	summer	after attack	1358	1288	1357	1248

R3	spring	nest	1460	1442	1385	1272
R3	spring	nest	1680	1493	1491	1483
R3	spring	nest	1496	1416	1445	1408
R3	spring	nest	1020	1007	999	955
R3	spring	nest	1366	1296	1326	1278
R3	spring	nest	1233	1243	1234	1204
R3	spring	nest	1636	1506	1497	1363
R3	spring	nest	1379	1269	1362	1289
R3	spring	nest	1615	1499	1431	1369
R3	spring	nest	1328	1221	1222	1159
R3	spring	nest	1659	1553	1553	1537
R3	spring	nest	924	878	970	903
R3	spring	nest	1417	1438	1349	1258
R3	spring	nest	1535	1409	1513	1334
R3	spring	nest	1500	1342	1387	1315
R3	spring	nest	1527	1494	1423	1445
R3	spring	nest	1357	1288	1292	1139
R3	spring	nest	941	960	1007	922
R3	spring	nest	926	982	937	836
R3	spring	nest	1535	1382	1425	1306
R3	spring	nest	1265	1268	1255	1218
R3	spring	nest	1360	1305	1364	1268
R3	spring	nest	1414	1354	1355	1319
R3	spring	nest	1188	1102	1112	1039
R3	spring	nest	1507	1438	1404	1290
R3	spring	nest	1574	1460	1445	1435
R3	spring	nest	1337	1257	1302	1299
R3	spring	nest	1489	1349	1475	1335
R3	spring	nest	1352	1271	1321	1164
R3	spring	nest	1486	1388	1437	1349
R3	spring	nest	1110	1050	902	829
R3	spring	nest	1474	1373	1448	1281
R3	spring	nest	1186	1159	1163	1050
R3	spring	nest	1681	1471	1463	1356
R3	spring	nest	1471	1423	1401	1353
R3	spring	nest	1633	1431	1468	1431
R3	spring	nest	1513	1433	1458	1382
R3	spring	nest	1524	1391	1418	1364
R3	spring	nest	1526	1459	1478	1400
R3	spring	nest	1527	1377	1404	1300
R3	spring	nest	1370	1333	1354	1235
R3	spring	nest	1486	1421	1451	1332
R3	spring	nest	1350	1264	1322	1254

R3	spring	nest	1579	1468	1440	1420
R3	spring	nest	1428	1414	1455	1341
R3	spring	nest	1293	1138	1190	1123
R3	spring	nest	1436	1368	1399	1243
R3	spring	nest	1518	1432	1406	1384
R3	spring	nest	1766	1633	1538	1502
R3	spring	nest	1059	976	1115	1020
R3	spring	nest	1150	1138	1179	1050
R3	spring	trail	1303	1231	1253	1228
R3	spring	trail	1468	1343	1424	1323
R3	spring	trail	1263	1208	1249	1192
R3	spring	trail	1450	1398	1370	1361
R3	spring	trail	1557	1493	1490	1417
R3	spring	trail	1321	1246	1295	1189
R3	spring	trail	1636	1578	1379	1332
R3	spring	trail	1191	1132	1158	1143
R3	spring	trail	1598	1429	1488	1294
R3	spring	trail	1403	1310	1405	1331
R3	spring	trail	1106	1057	1096	1043
R3	spring	trail	1453	1390	1371	1304
R3	spring	trail	1496	1413	1453	1415
R3	spring	trail	1379	1249	1346	1227
R3	spring	trail	1546	1408	1435	1386
R3	spring	trail	1167	1148	1195	1121
R3	spring	trail	1385	1367	1326	1235
R3	spring	trail	1235	1119	1200	1116
R3	spring	trail	1356	1329	1310	1285
R3	spring	trail	1416	1364	1349	1246
R3	spring	trail	1157	1101	1175	1036
R3	spring	trail	1428	1380	1369	1232
R3	spring	trail	1351	1260	1276	1135
R3	spring	trail	1273	1261	1279	1210
R3	spring	trail	1539	1373	1454	1377
R3	spring	trail	1507	1419	1420	1405
R3	spring	trail	1542	1401	1238	1040
R3	spring	trail	1484	1327	1402	1317
R3	spring	trail	1393	1306	1335	1271
R3	spring	trail	1477	1381	1448	1347
R3	spring	trail	1632	1453	1436	1505
R3	spring	trail	1363	1316	1302	1219
R3	spring	trail	1439	1361	1323	1309
R3	spring	trail	1577	1503	1512	1355
R3	spring	trail	1298	1238	1278	1193

R3	spring	trail	1391	1273	1358	1214
R3	spring	trail	1242	1193	993	922
R3	spring	trail	1359	1226	1302	1254
R3	spring	trail	1502	1470	1401	1325
R3	spring	trail	1110	1066	1083	1014
R3	spring	trail	1183	1110	1144	1109
R3	spring	trail	1535	1469	1420	1289
R3	spring	trail	1264	1254	1268	1154
R3	spring	trail	1209	1087	1210	1140
R3	spring	trail	1170	1119	1112	1008
R3	spring	trail	1255	1208	1222	1189
R3	spring	trail	1580	1454	1477	1426
R3	spring	trail	1386	1318	1370	1372
R3	spring	trail	1084	1043	1099	1037
R3	summer	nest	1119	1103	1103	1047
R3	summer	nest	1032	1062	1092	1058
R3	summer	nest	1062	1003	1045	964
R3	summer	nest	1477	1339	1378	1277
R3	summer	nest	1412	1299	1344	1273
R3	summer	nest	1201	1125	1162	1029
R3	summer	nest	1255	1168	1228	1178
R3	summer	nest	1362	1296	1306	1253
R3	summer	nest	1478	1401	1397	1336
R3	summer	nest	1228	1160	1207	1137
R3	summer	nest	1064	1008	1024	1004
R3	summer	nest	1070	993	1071	962
R3	summer	nest	1405	1349	1363	1261
R3	summer	nest	969	926	901	938
R3	summer	nest	1457	1323	1346	1336
R3	summer	nest	1228	1112	1169	1098
R3	summer	nest	1497	1325	1397	1300
R3	summer	nest	1234	1171	1279	1150
R3	summer	nest	1226	1202	1202	1173
R3	summer	nest	1045	1010	1040	998
R3	summer	nest	1611	1376	1465	1380
R3	summer	nest	1308	1292	1321	1243
R3	summer	nest	1393	1266	1358	1312
R3	summer	nest	1290	1227	1258	1183
R3	summer	nest	1561	1436	1420	1335
R3	summer	nest	1267	1237	1066	962
R3	summer	nest	1488	1416	1409	1336
R3	summer	nest	1062	1012	1090	1029
R3	summer	nest	1566	1420	1458	1340

R3	summer	nest	1321	1243	1285	1203
R3	summer	nest	1359	1273	1305	1236
R3	summer	nest	1341	1253	1279	1186
R3	summer	nest	1221	1198	1201	1125
R3	summer	nest	1412	1346	1386	1281
R3	summer	nest	1638	1445	1432	1347
R3	summer	nest	1178	1170	1178	1097
R3	summer	nest	976	981	994	972
R3	summer	nest	1345	1261	1343	1214
R3	summer	nest	1565	1460	1476	1412
R3	summer	nest	1119	1080	1117	1043
R3	summer	nest	1126	1061	1076	1034
R3	summer	nest	885	882	914	869
R3	summer	nest	951	848	864	788
R3	summer	nest	1024	982	1105	1023
R3	summer	nest	1489	1327	1468	1120
R3	summer	nest	947	941	944	864
R3	summer	nest	1112	1070	1131	986
R3	summer	nest	1054	979	1001	945
R3	summer	nest	1320	1256	1261	1192
R3	summer	nest	1152	1097	1135	1075
R4	spring	nest	1130	1083	1131	1023
R4	spring	nest	1172	1117	1137	1067
R4	spring	nest	1036	1001	1018	1037
R4	spring	nest	1252	1108	1184	1127
R4	spring	nest	1374	1316	1339	1192
R4	spring	nest	959	977	968	962
R4	spring	nest	1330	1257	1314	1214
R4	spring	nest	1077	1021	1051	973
R4	spring	nest	799	794	813	730
R4	spring	nest	1075	982	1105	1003
R4	spring	nest	969	869	939	883
R4	spring	nest	1282	1250	1274	1129
R4	spring	nest	1096	1108	1126	1079
R4	spring	nest	1434	1371	1346	1309
R4	spring	nest	885	884	896	835
R4	spring	nest	1402	1276	1328	1126
R4	spring	nest	929	956	1012	961
R4	spring	nest	1330	1233	1340	1216
R4	spring	nest	1172	1127	1166	1143
R4	spring	nest	982	990	1025	990
R4	spring	nest	1220	1134	1179	1079
R4	spring	nest	911	896	969	916

R4	spring	nest	1400	1255	1192	1211
R4	spring	nest	1223	1138	1197	1023
R4	spring	nest	1036	1035	1030	973
R4	spring	nest	1389	1297	1328	1288
R4	spring	nest	1081	1022	1034	1014
R4	spring	nest	1297	1188	1219	1201
R4	spring	nest	1008	966	1033	972
R4	spring	nest	1194	1086	1131	1094
R4	spring	nest	1363	1222	1268	1203
R4	spring	nest	1257	1238	1229	1125
R4	spring	nest	1347	1338	1384	1256
R4	spring	nest	1319	1135	1305	1084
R4	spring	nest	1274	1268	1302	1250
R4	spring	nest	1416	1334	1389	1331
R4	spring	nest	1081	1014	1062	942
R4	spring	nest	1092	1020	1101	1065
R4	spring	nest	1333	1252	1307	1225
R4	spring	nest	1250	1207	1234	1178
R4	spring	nest	1220	1101	1203	1138
R4	spring	nest	1400	1301	1374	1308
R4	spring	nest	1242	1188	1235	1214
R4	spring	nest	947	911	789	760
R4	spring	nest	1213	1166	1215	1088
R4	spring	nest	1310	1143	1277	1215
R4	spring	nest	1219	1225	1094	937
R4	spring	nest	1397	1319	1376	1274
R4	spring	nest	924	850	944	856
R4	spring	nest	1023	1009	1059	977
R4	spring	trail	1252	1170	1259	1122
R4	spring	trail	1255	1145	1220	1122
R4	spring	trail	1368	1265	1339	1213
R4	spring	trail	1404	1288	1327	1209
R4	spring	trail	1380	1291	1324	1272
R4	spring	trail	1297	1256	1282	1118
R4	spring	trail	1443	1397	1358	1282
R4	spring	trail	1205	1185	1119	1054
R4	spring	trail	1328	1275	1299	1197
R4	spring	trail	962	940	935	876
R4	spring	trail	1015	1062	1062	934
R4	spring	trail	1250	1240	1290	1185
R4	spring	trail	1306	1207	1277	1181
R4	spring	trail	1212	1221	1210	1117
R4	spring	trail	1018	1006	1055	976

R4	spring	trail	1437	1376	1377	1274
R4	spring	trail	1513	1389	1439	1276
R4	spring	trail	1094	1045	1074	1003
R4	spring	trail	1126	1016	1038	1033
R4	spring	trail	948	877	997	907
R4	spring	trail	1377	1339	1392	1242
R4	spring	trail	909	898	951	833
R4	spring	trail	1232	1160	1226	1136
R4	spring	trail	1062	973	1065	998
R4	spring	trail	1003	1003	1043	928
R4	spring	trail	803	724	850	749
R4	spring	trail	1150	1100	1171	1065
R4	spring	trail	1213	1130	1177	1177
R4	spring	trail	1058	1031	1047	982
R4	spring	trail	1350	1341	1387	1260
R4	spring	trail	1327	1340	1315	1090
R4	spring	trail	1277	1270	1306	1245
R4	spring	trail	1418	1329	1380	1340
R4	spring	trail	1089	1017	1067	945
R4	spring	trail	1098	1030	1104	1067
R4	spring	trail	1333	1252	1307	1225
R4	spring	trail	1242	1198	1224	1168
R4	spring	trail	1203	1110	1207	1141
R4	spring	trail	1402	1308	1376	1313
R4	spring	trail	1245	1192	1236	1215
R4	spring	trail	956	920	799	781
R4	spring	trail	1220	1174	1221	1104
R4	spring	trail	1313	1145	1279	1217
R4	spring	trail	1220	1218	1093	1050
R4	spring	trail	1025	1051	1040	961
R4	spring	trail	1249	1251	1284	1178
R4	spring	trail	1318	1220	1285	1190
R4	spring	trail	1211	1219	1207	1115
R4	spring	trail	1407	1311	1380	1248
R4	spring	trail	927	862	967	874
R4	summer	nest	1115	1077	1172	1130
R4	summer	nest	887	846	880	831
R4	summer	nest	1095	1071	1115	1073
R4	summer	nest	1131	1050	1121	1093
R4	summer	nest	1114	1061	1109	1061
R4	summer	nest	1114	1062	1174	1090
R4	summer	nest	1029	996	1089	996
R4	summer	nest	1203	1140	1246	1142

R4	summer	nest	922	927	1036	901
R4	summer	nest	825	817	830	813
R4	summer	nest	944	868	971	923
R4	summer	nest	857	845	917	863
R4	summer	nest	1079	1047	1072	1049
R4	summer	nest	847	861	872	800
R4	summer	nest	1078	1045	1109	1067
R4	summer	nest	983	918	995	946
R4	summer	nest	1315	1219	1312	1242
R4	summer	nest	916	933	990	895
R4	summer	nest	857	829	862	807
R4	summer	nest	1021	1027	1079	1023
R4	summer	nest	1219	1161	1252	1175
R4	summer	nest	1175	1115	1244	1205
R4	summer	nest	1000	993	885	819
R4	summer	nest	1267	1208	1246	1169
R4	summer	nest	1027	941	849	820
R4	summer	nest	925	928	978	947
R4	summer	nest	873	869	881	854
R4	summer	nest	1409	1289	1406	1295
R4	summer	nest	1240	1230	1267	1188
R4	summer	nest	1136	1086	1160	1088
R4	summer	nest	806	816	819	795
R4	summer	nest	1084	1047	1075	1018
R4	summer	nest	929	962	982	977
R4	summer	nest	953	932	1015	936
R4	summer	nest	816	820	830	779
R4	summer	nest	1211	1215	1218	1167
R4	summer	nest	877	858	821	843
R4	summer	nest	1193	1150	1161	1172
R4	summer	nest	1164	1082	1147	1081
R4	summer	nest	1079	1090	1163	1095
R4	summer	nest	1110	1060	1111	1025
R4	summer	nest	1197	1144	1214	1161
R4	summer	nest	879	864	877	810
R4	summer	nest	1097	1080	1132	1104
R4	summer	nest	878	798	770	826
R4	summer	nest	1052	1019	1048	1045
R4	summer	nest	948	973	976	961
R4	summer	nest	1007	1019	1054	984
R4	summer	nest	1382	1271	1286	1328
R4	summer	nest	1185	1108	1183	1153
R4	summer	after attack	1054	1007	872	994

R4	summer	after attack	1062	1010	882	757
R4	summer	after attack	1190	1102	1142	1074
R4	summer	after attack	1265	1207	1235	1224
R4	summer	after attack	1239	1155	1220	1133
R4	summer	after attack	1101	1082	1128	1071
R4	summer	after attack	1026	993	1008	985
R4	summer	after attack	1315	1213	1295	1238
R4	summer	after attack	1120	1045	1133	1092
R4	summer	after attack	1000	959	1017	917
R4	summer	after attack	1197	1057	1194	1121
R4	summer	after attack	1314	1273	1295	1211
R4	summer	after attack	1103	1099	1090	1062
R4	summer	after attack	951	912	956	893
R4	summer	after attack	1060	998	1076	985
R4	summer	after attack	1448	1369	1388	1259
R4	summer	after attack	854	868	893	833
R4	summer	after attack	1231	1122	1228	1187
R4	summer	after attack	1246	1242	1286	1215
R4	summer	after attack	1405	1330	1400	1308
R4	summer	after attack	949	946	968	924
R4	summer	after attack	1316	1198	1307	1241
R4	summer	after attack	1112	1062	1054	1056
R4	summer	after attack	1137	1139	1202	1105
R4	summer	after attack	1132	1122	1075	1089
R4	summer	after attack	1178	1124	1219	1140
R4	summer	after attack	836	805	830	809
R4	summer	after attack	886	894	926	836
R4	summer	after attack	1160	1111	1160	1073
R4	summer	after attack	896	890	968	906
R4	summer	after attack	1129	1056	1129	1094
R4	summer	after attack	787	779	780	756
R4	summer	after attack	835	816	843	802
R4	summer	after attack	1042	1023	1108	982
R4	summer	after attack	1188	1104	1153	1081
R4	summer	after attack	1179	1156	1193	1179
R4	summer	after attack	1097	1034	1132	1072
R4	summer	after attack	873	850	869	850
R4	summer	after attack	960	901	1021	944
R4	summer	after attack	1010	944	1051	997
R4	summer	after attack	1128	1064	1125	1089
R4	summer	after attack	1035	987	1014	992
R4	summer	after attack	823	843	891	808
R4	summer	after attack	1062	994	1080	1064

R4	summer	after attack	946	930	1008	967
R4	summer	after attack	1001	950	992	953
R4	summer	after attack	1119	973	1154	1058
R4	summer	after attack	924	901	904	865
R4	summer	after attack	1190	1107	1154	1082
R4	summer	after attack	1319	1203	1311	1245
L3	spring	nest	1711	1841	1419	1353
L3	spring	nest	968	996	970	926
L3	spring	nest	1225	1193	1248	1174
L3	spring	nest	1372	1288	1329	1266
L3	spring	nest	1069	1101	1167	1082
L3	spring	nest	1469	1401	1396	1243
L3	spring	nest	1469	1388	1424	1198
L3	spring	nest	868	849	839	779
L3	spring	nest	1474	1377	1426	1301
L3	spring	nest	1223	1204	1336	1202
L3	spring	nest	1234	1234	1271	1147
L3	spring	nest	1346	1294	1297	1197
L3	spring	nest	1365	1325	1294	1200
L3	spring	nest	1394	1324	1352	1263
L3	spring	nest	1441	1348	1347	1276
L3	spring	nest	1337	1237	1291	1255
L3	spring	nest	1037	1019	1140	985
L3	spring	nest	1437	1337	1401	1287
L3	spring	nest	1235	1223	1276	1212
L3	spring	nest	946	889	906	824
L3	spring	nest	1350	1305	1362	1195
L3	spring	nest	1460	1333	1406	1321
L3	spring	nest	1212	1131	1237	1110
L3	spring	nest	1265	1235	1358	1242
L3	spring	nest	1146	1083	1212	1065
L3	spring	nest	1512	1399	1497	1438
L3	spring	nest	1561	1422	1482	1358
L3	spring	nest	1083	1066	1167	1065
L3	spring	nest	1072	1013	1094	1022
L3	spring	nest	1343	1277	1377	1278
L3	spring	nest	1263	1108	1257	1114
L3	spring	nest	957	890	932	886
L3	spring	nest	1543	1412	1459	1370
L3	spring	nest	990	999	956	983
L3	spring	nest	1428	1387	1416	1333
L3	spring	nest	1497	1428	1456	1379
L3	spring	nest	1364	1283	1410	1314

L3	spring	nest	1442	1222	1282	1235
L3	spring	nest	1329	1282	1372	1329
L3	spring	nest	962	931	961	849
L3	spring	nest	911	975	1033	945
L3	spring	nest	1473	1301	1455	1335
L3	spring	nest	1135	1123	1160	1000
L3	spring	nest	1301	1208	1288	1259
L3	spring	nest	1235	1165	1228	1118
L3	spring	nest	1188	1070	1198	1038
L3	spring	nest	1196	1195	1294	1148
L3	spring	nest	1458	1310	1377	1248
L3	spring	nest	1215	1171	1249	1177
L3	spring	nest	1711	1856	1351	1287
L3	spring	trail	1275	1182	1270	1204
L3	spring	trail	1310	1326	1290	1296
L3	spring	trail	1430	1393	1391	1261
L3	spring	trail	1042	1040	1043	948
L3	spring	trail	936	994	1056	920
L3	spring	trail	1361	1274	1332	1232
L3	spring	trail	1474	1341	1460	1299
L3	spring	trail	1285	1238	1242	1145
L3	spring	trail	1429	1377	1377	1407
L3	spring	trail	1503	1327	1441	1441
L3	spring	trail	1458	1400	1479	1409
L3	spring	trail	1013	1000	902	783
L3	spring	trail	1369	1335	1338	1290
L3	spring	trail	887	891	929	872
L3	spring	trail	1202	1177	1224	1164
L3	spring	trail	882	890	896	829
L3	spring	trail	1307	1261	1312	1190
L3	spring	trail	1429	1311	1356	1230
L3	spring	trail	1273	1202	1253	1210
L3	spring	trail	1056	1012	1026	1011
L3	spring	trail	1278	1222	1143	1154
L3	spring	trail	1238	1169	1172	1097
L3	spring	trail	1499	1386	1441	1346
L3	spring	trail	1178	1199	1213	1148
L3	spring	trail	1304	1238	1263	1228
L3	spring	trail	1376	1352	1306	1219
L3	spring	trail	1390	1309	1331	1295
L3	spring	trail	964	962	974	977
L3	spring	trail	843	869	901	839
L3	spring	trail	1082	1010	1088	1031

L3	spring	trail	1574	1468	1520	1472
L3	spring	trail	990	913	1030	946
L3	spring	trail	1349	1279	1295	1253
L3	spring	trail	1142	1074	1130	1001
L3	spring	trail	1587	1431	1512	1484
L3	spring	trail	1359	1268	1343	1262
L3	spring	trail	1135	1122	1113	1043
L3	spring	trail	1120	1092	1156	1113
L3	spring	trail	1301	1261	1277	1189
L3	spring	trail	1478	1314	1408	1327
L3	spring	trail	1371	1319	1286	1208
L3	spring	trail	1546	1404	1448	1444
L3	spring	trail	1469	1387	1409	1312
L3	spring	trail	931	949	930	937
L3	spring	trail	1267	1163	1252	1224
L3	spring	trail	1143	1055	1113	1043
L3	spring	trail	1469	1389	1285	1088
L3	spring	trail	899	934	948	954
L3	spring	trail	1093	1093	1155	1002
L3	spring	trail	877	885	880	841
L3	summer	nest	1236	1176	1299	1147
L3	summer	nest	1247	1215	1235	1148
L3	summer	nest	1254	1183	1301	1215
L3	summer	nest	1428	1307	1386	1292
L3	summer	nest	1367	1334	1402	1352
L3	summer	nest	1127	1167	1148	1124
L3	summer	nest	885	872	943	878
L3	summer	nest	1355	1306	1355	1322
L3	summer	nest	1336	1309	1320	1280
L3	summer	nest	1142	1131	1196	1138
L3	summer	nest	1269	1257	1160	1115
L3	summer	nest	1358	1302	1359	1320
L3	summer	nest	1206	1173	1182	1135
L3	summer	nest	1314	1286	1408	1377
L3	summer	nest	1462	1340	1345	1356
L3	summer	nest	848	881	922	878
L3	summer	nest	1404	1291	1385	1253
L3	summer	nest	832	754	876	801
L3	summer	nest	949	922	917	923
L3	summer	nest	1151	1103	1114	1026
L3	summer	nest	836	831	907	849
L3	summer	nest	1277	1184	1236	1161
L3	summer	nest	1149	1099	1135	1089

L3	summer	nest	986	920	965	920
L3	summer	nest	1058	996	1086	1003
L3	summer	nest	888	854	908	838
L3	summer	nest	858	815	911	844
L3	summer	nest	1323	1255	1372	1283
L3	summer	nest	1258	1176	1278	1210
L3	summer	nest	1071	1037	1090	1050
L3	summer	nest	1393	1282	1350	1262
L3	summer	nest	1179	1062	1201	1183
L3	summer	nest	1046	1009	1086	1031
L3	summer	nest	1032	1034	1126	1036
L3	summer	nest	1572	1446	1440	1339
L3	summer	nest	1444	1382	1440	1314
L3	summer	nest	1182	1206	1249	1190
L3	summer	nest	1343	1328	1350	1337
L3	summer	nest	1188	1182	1085	1133
L3	summer	nest	816	852	908	864
L3	summer	nest	1523	1408	1428	1330
L3	summer	nest	888	859	925	888
L3	summer	nest	954	959	824	763
L3	summer	nest	927	924	933	908
L3	summer	nest	1315	1254	1306	1255
L3	summer	nest	973	937	954	886
L3	summer	nest	990	1001	855	763
L3	summer	nest	1371	1261	1309	1273
L3	summer	nest	1190	1117	1033	958
L3	summer	nest	1284	1192	1131	1035
L3	summer	after attack	1327	1220	1289	1295
L3	summer	after attack	1095	1066	1092	1085
L3	summer	after attack	1263	1215	1268	1202
L3	summer	after attack	1307	1227	1261	1161
L3	summer	after attack	1224	1187	1309	1188
L3	summer	after attack	1390	1312	1347	1280
L3	summer	after attack	1053	996	1097	1014
L3	summer	after attack	1576	1398	1506	1332
L3	summer	after attack	1521	1356	1388	1284
L3	summer	after attack	973	956	996	935
L3	summer	after attack	887	786	852	883
L3	summer	after attack	1131	1177	1221	1092
L3	summer	after attack	1069	1056	1024	964
L3	summer	after attack	1331	1263	1353	1196
L3	summer	after attack	1350	1316	1379	1323
L3	summer	after attack	1015	985	1088	1031

L3	summer	after attack	1289	1198	1141	1018
L3	summer	after attack	1263	1189	1279	1165
L3	summer	after attack	868	894	855	926
L3	summer	after attack	1638	1417	1459	1334
L3	summer	after attack	943	965	1042	996
L3	summer	after attack	1098	1139	1079	1151
L3	summer	after attack	1269	1236	1324	1278
L3	summer	after attack	1076	1082	1101	1042
L3	summer	after attack	863	823	872	795
L3	summer	after attack	1338	1258	1347	1242
L3	summer	after attack	1429	1332	1431	1438
L3	summer	after attack	1227	1148	1273	1180
L3	summer	after attack	1327	1275	1332	1311
L3	summer	after attack	960	939	1012	933
L3	summer	after attack	1177	1145	1182	1092
L3	summer	after attack	1108	1104	1163	1117
L3	summer	after attack	1413	1375	1480	1383
L3	summer	after attack	1352	1307	1413	1294
L3	summer	after attack	1157	1135	1413	1362
L3	summer	after attack	1174	1143	1250	1187
L3	summer	after attack	849	869	849	779
L3	summer	after attack	1311	1281	1372	1227
L3	summer	after attack	1374	1198	1313	1224
L3	summer	after attack	909	965	999	1002
L3	summer	after attack	1366	1355	1382	1213
L3	summer	after attack	1413	1358	1392	1265
L3	summer	after attack	1378	1252	1351	1167
L3	summer	after attack	872	862	979	959
L3	summer	after attack	1385	1329	1188	1045
L3	summer	after attack	1219	1234	1297	1221
L3	summer	after attack	924	949	1000	946
L3	summer	after attack	1205	1150	1238	1152
L3	summer	after attack	1046	1048	1108	1051
L3	summer	after attack	994	964	988	876
L4	spring	nest	1533	1389	1437	1365
L4	spring	nest	1121	1044	1140	1037
L4	spring	nest	1249	1182	1240	1155
L4	spring	nest	1201	1185	1176	1089
L4	spring	nest	1044	1068	1050	952
L4	spring	nest	1480	1403	1494	1375
L4	spring	nest	1357	1289	1361	1214
L4	spring	nest	1520	1397	1454	1400
L4	spring	nest	1180	1165	1150	1106

L4	spring	nest	1434	1406	1372	1259
L4	spring	nest	1375	1359	1351	1230
L4	spring	nest	1001	1010	1051	936
L4	spring	nest	1085	1035	1076	1025
L4	spring	nest	1358	1358	1348	1240
L4	spring	nest	1109	1114	1146	1123
L4	spring	nest	1358	1311	1318	1268
L4	spring	nest	1234	1226	1245	1171
L4	spring	nest	1192	1166	1170	1115
L4	spring	nest	874	906	807	715
L4	spring	nest	1259	1210	1242	1212
L4	spring	nest	999	1007	995	884
L4	spring	nest	1370	1237	1399	1310
L4	spring	nest	1394	1343	1414	1332
L4	spring	nest	1259	1192	1257	1143
L4	spring	nest	1143	1163	1185	1117
L4	spring	nest	1444	1386	1380	1265
L4	spring	nest	1496	1409	1401	1306
L4	spring	nest	1288	1260	1292	1131
L4	spring	nest	1400	1305	1362	1306
L4	spring	nest	1170	1110	1179	1138
L4	spring	nest	1002	1035	1114	1031
L4	spring	nest	1245	1152	1256	1171
L4	spring	nest	1143	1116	1236	1073
L4	spring	nest	1231	1153	1234	1120
L4	spring	nest	1447	1341	1451	1333
L4	spring	nest	1467	1351	1441	1273
L4	spring	nest	1145	1109	1141	1044
L4	spring	nest	1412	1365	1377	1310
L4	spring	nest	1187	1202	1200	1135
L4	spring	nest	1336	1302	1391	1311
L4	spring	nest	1270	1187	1236	1067
L4	spring	nest	1385	1292	1343	1301
L4	spring	nest	1275	1226	1325	1276
L4	spring	nest	1335	1258	1318	1245
L4	spring	nest	1140	1119	1168	1073
L4	spring	nest	1076	1119	1063	1091
L4	spring	nest	1014	968	1026	993
L4	spring	nest	1134	1169	1152	1158
L4	spring	nest	976	985	949	957
L4	spring	nest	941	934	959	915
L4	spring	trail	1252	1264	1246	1169
L4	spring	trail	1407	1339	1377	1234

L4	spring	trail	1364	1335	1245	1289
L4	spring	trail	1362	1234	1386	1283
L4	spring	trail	962	874	1015	960
L4	spring	trail	1200	1248	1318	1207
L4	spring	trail	1108	1077	1096	1007
L4	spring	trail	1462	1433	1418	1273
L4	spring	trail	1285	1246	1322	1191
L4	spring	trail	1099	1065	967	865
L4	spring	trail	1233	1265	1152	1144
L4	spring	trail	970	961	985	910
L4	spring	trail	1448	1300	1412	1315
L4	spring	trail	1210	1199	1210	1195
L4	spring	trail	1043	1030	1132	1056
L4	spring	trail	1163	1211	1296	1176
L4	spring	trail	1441	1383	1423	1311
L4	spring	trail	993	973	1057	856
L4	spring	trail	1362	1324	1352	1325
L4	spring	trail	1039	998	1074	1014
L4	spring	trail	1285	1255	1337	1220
L4	spring	trail	1279	1194	1291	1231
L4	spring	trail	960	947	998	876
L4	spring	trail	980	1000	983	956
L4	spring	trail	1449	1396	1422	1404
L4	spring	trail	1034	1003	1095	1022
L4	spring	trail	1052	932	1038	937
L4	spring	trail	974	986	998	926
L4	spring	trail	1208	1132	1274	1158
L4	spring	trail	1399	1396	1367	1241
L4	spring	trail	1308	1245	1326	1302
L4	spring	trail	1386	1327	1379	1277
L4	spring	trail	1002	981	1068	956
L4	spring	trail	1197	1113	1219	1195
L4	spring	trail	1268	1197	1225	1158
L4	spring	trail	1474	1457	1474	1416
L4	spring	trail	1220	1290	1253	1208
L4	spring	trail	1506	1438	1449	1345
L4	spring	trail	1199	1145	1212	1165
L4	spring	trail	1297	1248	1313	1265
L4	spring	trail	1306	1245	1297	1245
L4	spring	trail	1227	1129	1197	1192
L4	spring	trail	1459	1386	1448	1359
L4	spring	trail	1513	1437	1448	1405
L4	spring	trail	1105	1056	1111	1084

L4	spring	trail	1314	1289	1281	1198
L4	spring	trail	1279	1265	1312	1234
L4	spring	trail	1163	1183	1218	1162
L4	spring	trail	1434	1342	1379	1336
L4	spring	trail	1296	1212	1306	1237
L4	summer	nest	1327	1299	1310	1216
L4	summer	nest	1368	1196	1371	1276
L4	summer	nest	1416	1339	1350	1263
L4	summer	nest	1574	1343	1458	1383
L4	summer	nest	1415	1284	1402	1334
L4	summer	nest	1464	1347	1425	1318
L4	summer	nest	1525	1418	1450	1350
L4	summer	nest	1354	1303	1351	1253
L4	summer	nest	1401	1357	1379	1322
L4	summer	nest	1386	1302	1327	1249
L4	summer	nest	1385	1315	1385	1295
L4	summer	nest	1434	1317	1414	1318
L4	summer	nest	980	967	1092	893
L4	summer	nest	1487	1383	1389	1295
L4	summer	nest	967	959	1029	919
L4	summer	nest	1213	1163	1279	1116
L4	summer	nest	1256	1194	1264	1118
L4	summer	nest	1006	1021	1057	947
L4	summer	nest	1440	1315	1434	1339
L4	summer	nest	1289	1254	1335	1169
L4	summer	nest	1435	1281	1377	1302
L4	summer	nest	1285	1179	1237	1169
L4	summer	nest	981	937	1016	966
L4	summer	nest	1455	1351	1418	1361
L4	summer	nest	1064	1053	1101	1028
L4	summer	nest	1117	1119	1161	1044
L4	summer	nest	1295	1226	1329	1221
L4	summer	nest	1464	1324	1454	1401
L4	summer	nest	1340	1228	1361	1237
L4	summer	nest	950	984	1037	981
L4	summer	nest	1448	1324	1362	1387
L4	summer	nest	1295	1217	1295	1181
L4	summer	nest	1300	1220	1244	1196
L4	summer	nest	1115	1075	1083	1058
L4	summer	nest	1261	1270	1346	1251
L4	summer	nest	1431	1306	1395	1366
L4	summer	nest	1426	1328	1384	1313
L4	summer	nest	1340	1214	1333	1280

L4	summer	nest	1199	1194	1034	1001
L4	summer	nest	1347	1262	1339	1216
L4	summer	nest	1349	1286	1341	1303
L4	summer	nest	1353	1268	1366	1237
L4	summer	nest	1236	1148	1228	1095
L4	summer	nest	1417	1321	1387	1291
L4	summer	nest	1256	1202	1282	1174
L4	summer	nest	1335	1304	1332	1239
L4	summer	nest	1456	1374	1464	1383
L4	summer	nest	1427	1264	1370	1266
L4	summer	nest	1403	1292	1166	1062
L4	summer	nest	1216	1178	1238	1144
L5	spring	nest	1452	1342	1406	1293
L5	spring	nest	928	930	945	903
L5	spring	nest	1355	1367	1453	1326
L5	spring	nest	1297	1288	1351	1243
L5	spring	nest	1610	1495	1526	1394
L5	spring	nest	1558	1435	1425	1426
L5	spring	nest	1226	1131	1222	1192
L5	spring	nest	1393	1315	1370	1281
L5	spring	nest	1294	1273	1320	1277
L5	spring	nest	1371	1304	1380	1332
L5	spring	nest	956	964	961	843
L5	spring	nest	1101	1083	1171	1148
L5	spring	nest	1501	1377	1410	1366
L5	spring	nest	1427	1343	1407	1300
L5	spring	nest	1345	1259	1298	1208
L5	spring	nest	1119	1083	1150	1078
L5	spring	nest	1270	1214	1317	1229
L5	spring	nest	1316	1236	1283	1244
L5	spring	nest	1502	1360	1436	1370
L5	spring	nest	1029	967	1022	953
L5	spring	nest	1221	1171	1214	1148
L5	spring	nest	982	1035	1041	1025
L5	spring	nest	1418	1336	1413	1283
L5	spring	nest	1297	1267	1286	1247
L5	spring	nest	1442	1285	1416	1434
L5	spring	nest	1437	1375	1349	1383
L5	spring	nest	1084	1013	1086	1013
L5	spring	nest	1337	1246	1274	1196
L5	spring	nest	1262	1163	1235	1090
L5	spring	nest	848	867	897	792
L5	spring	nest	1353	1262	1365	1217

L5	spring	nest	1101	1048	1073	1056
L5	spring	nest	1242	1128	1275	1077
L5	spring	nest	1223	1168	1270	1175
L5	spring	nest	1332	1219	1367	1226
L5	spring	nest	1327	1301	1370	1249
L5	spring	nest	1291	1226	1336	1215
L5	spring	nest	1239	1196	1200	1172
L5	spring	nest	1101	1021	1083	1032
L5	spring	nest	1522	1382	1422	1380
L5	spring	nest	1342	1215	1273	1240
L5	spring	nest	1251	1139	1285	1197
L5	spring	nest	1092	1075	1120	1024
L5	spring	nest	1338	1263	1337	1217
L5	spring	nest	1610	1530	1467	1484
L5	spring	nest	1309	1153	1342	1213
L5	spring	nest	985	961	972	914
L5	spring	nest	1336	1260	1319	1228
L5	spring	nest	1165	1131	1163	1054
L5	spring	nest	1303	1252	1340	1252
L5	spring	trail	1430	1343	1404	1363
L5	spring	trail	1259	1159	1199	1130
L5	spring	trail	1377	1265	1342	1225
L5	spring	trail	1381	1345	1379	1312
L5	spring	trail	1455	1370	1423	1279
L5	spring	trail	1351	1330	1343	1309
L5	spring	trail	1250	1263	1267	1292
L5	spring	trail	1142	1101	1131	1080
L5	spring	trail	1349	1300	1384	1247
L5	spring	trail	1295	1202	1319	1261
L5	spring	trail	1400	1397	1415	1300
L5	spring	trail	1239	1174	1228	1188
L5	spring	trail	1332	1285	1318	1230
L5	spring	trail	1383	1290	1333	1232
L5	spring	trail	1457	1367	1418	1380
L5	spring	trail	1101	1108	1057	1012
L5	spring	trail	1270	1206	1279	1202
L5	spring	trail	1407	1275	1353	1285
L5	spring	trail	1087	1085	1122	995
L5	spring	trail	1038	1038	1248	1154
L5	spring	trail	1345	1326	1313	1296
L5	spring	trail	1375	1274	1367	1261
L5	spring	trail	1211	1197	1222	1150
L5	spring	trail	1176	1117	1148	1070

L5	spring	trail	940	891	938	927
L5	spring	trail	1179	1120	1218	1089
L5	spring	trail	1305	1286	1340	1250
L5	spring	trail	1240	1209	1250	1170
L5	spring	trail	791	748	804	767
L5	spring	trail	1410	1312	1196	1023
L5	spring	trail	1068	1118	1174	1033
L5	spring	trail	1268	1178	1316	1222
L5	spring	trail	1144	1162	1221	1130
L5	spring	trail	1534	1411	1458	1371
L5	spring	trail	1090	1021	1126	1109
L5	spring	trail	1334	1273	1369	1281
L5	spring	trail	992	904	1006	949
L5	spring	trail	1201	1167	1259	1164
L5	spring	trail	1150	1091	1172	1096
L5	spring	trail	1429	1288	1324	1264
L5	spring	trail	1308	1297	1316	1246
L5	spring	trail	1445	1367	1224	1179
L5	spring	trail	1323	1297	1389	1284
L5	spring	trail	1236	1197	1204	1220
L5	spring	trail	1307	1288	1342	1252
L5	spring	trail	1370	1269	1360	1255
L5	spring	trail	1170	1111	1142	1064
L5	spring	trail	1432	1345	1406	1365
L5	spring	trail	1400	1396	1413	1298
L5	spring	trail	1080	1131	1186	1045
L5	summer	nest	816	787	835	812
L5	summer	nest	1412	1362	1373	1291
L5	summer	nest	1419	1353	1389	1374
L5	summer	nest	1209	1184	1189	1120
L5	summer	nest	986	973	828	827
L5	summer	nest	1410	1351	1380	1348
L5	summer	nest	1345	1273	1365	1253
L5	summer	nest	1385	1322	1360	1358
L5	summer	nest	1233	1168	1253	1193
L5	summer	nest	1353	1306	1345	1319
L5	summer	nest	1267	1228	1295	1211
L5	summer	nest	1258	1170	1232	1226
L5	summer	nest	1272	1192	1314	1215
L5	summer	nest	1406	1310	1421	1194
L5	summer	nest	1116	1058	1173	1093
L5	summer	nest	1113	1043	1118	1130
L5	summer	nest	1304	1237	1314	1276

L5	summer	nest	1078	1057	1098	1068
L5	summer	nest	876	850	921	869
L5	summer	nest	1423	1361	1389	1299
L5	summer	nest	944	925	984	893
L5	summer	nest	1424	1332	1455	1334
L5	summer	nest	847	845	864	814
L5	summer	nest	939	870	776	716
L5	summer	nest	933	930	1000	917
L5	summer	nest	1530	1427	1493	1364
L5	summer	nest	901	904	898	726
L5	summer	nest	791	822	706	782
L5	summer	nest	1410	1335	1410	1366
L5	summer	nest	965	1004	998	913
L5	summer	nest	938	889	914	835
L5	summer	nest	1073	1075	1095	1038
L5	summer	nest	900	915	926	888
L5	summer	nest	1405	1334	1373	1291
L5	summer	nest	875	938	919	849
L5	summer	nest	1501	1381	1482	1436
L5	summer	nest	1520	1483	1482	1423
L5	summer	nest	1422	1288	1397	1371
L5	summer	nest	1427	1390	1422	1358
L5	summer	nest	837	869	848	872
L5	summer	nest	1280	1208	1283	1217
L5	summer	nest	1014	957	1004	990
L5	summer	nest	1363	1303	1359	1234
L5	summer	nest	1134	1141	1150	1141
L5	summer	nest	1337	1252	1308	1276
L5	summer	nest	1401	1320	1387	1302
L5	summer	nest	1167	1113	1186	1116
L5	summer	nest	1411	1322	1417	1280
L5	summer	nest	1181	1188	1206	1148
L5	summer	nest	851	855	918	812
L5	summer	after attack	1051	1016	1096	969
L5	summer	after attack	1464	1438	1436	1369
L5	summer	after attack	1113	1102	1128	1007
L5	summer	after attack	1423	1396	1395	1317
L5	summer	after attack	1297	1246	1261	1200
L5	summer	after attack	1345	1273	1344	1267
L5	summer	after attack	1355	1284	1304	1221
L5	summer	after attack	1463	1347	1389	1247
L5	summer	after attack	1266	1251	1263	1154
L5	summer	after attack	1525	1442	1489	1410

L5	summer	after attack	1291	1196	1253	1190
L5	summer	after attack	1169	1089	1170	1075
L5	summer	after attack	1388	1334	1432	1332
L5	summer	after attack	1302	1201	1298	1220
L5	summer	after attack	1435	1387	1425	1262
L5	summer	after attack	1004	982	1014	901
L5	summer	after attack	1401	1308	1392	1255
L5	summer	after attack	1318	1275	1416	1305
L5	summer	after attack	1364	1247	1328	1242
L5	summer	after attack	1436	1302	1417	1295
L5	summer	after attack	1362	1305	1351	1234
L5	summer	after attack	1477	1373	1427	1329
L5	summer	after attack	1328	1296	1337	1189
L5	summer	after attack	1382	1301	1371	1225
L5	summer	after attack	1438	1365	1430	1332
L5	summer	after attack	1247	1189	1272	1114
L5	summer	after attack	959	967	991	889
L5	summer	after attack	1389	1304	1331	1313
L5	summer	after attack	1563	1371	1454	1338
L5	summer	after attack	1436	1279	1356	1333
L5	summer	after attack	1253	1208	1249	1180
L5	summer	after attack	1181	1164	1180	1117
L5	summer	after attack	1194	1158	1222	1198
L5	summer	after attack	958	958	985	901
L5	summer	after attack	1390	1315	1425	1324
L5	summer	after attack	1468	1300	1423	1338
L5	summer	after attack	1344	1276	1388	1241
L5	summer	after attack	964	967	1024	959
L5	summer	after attack	1351	1303	1380	1269
L5	summer	after attack	1357	1293	1373	1242
L5	summer	after attack	1437	1373	1323	1279
L5	summer	after attack	939	941	988	931
L5	summer	after attack	1224	1145	1200	1098
L5	summer	after attack	1321	1261	1293	1169
L5	summer	after attack	1428	1327	1407	1295
L5	summer	after attack	1095	1074	1120	979
L5	summer	after attack	1452	1357	1482	1261
L5	summer	after attack	930	919	986	900
L5	summer	after attack	1359	1206	1360	1246
L5	summer	after attack	1188	1141	1178	1137
L6	spring	nest	1402	1405	1380	1352
L6	spring	nest	1355	1329	1427	1306
L6	spring	nest	1509	1390	1400	1286

L6	spring	nest	1508	1456	1450	1412
L6	spring	nest	1303	1278	1380	1288
L6	spring	nest	1155	1028	1173	1100
L6	spring	nest	1452	1405	1476	1389
L6	spring	nest	1398	1298	1387	1254
L6	spring	nest	1547	1390	1441	1323
L6	spring	nest	1496	1337	1516	1387
L6	spring	nest	1589	1458	1504	1387
L6	spring	nest	1448	1367	1440	1341
L6	spring	nest	1454	1395	1427	1367
L6	spring	nest	1323	1313	1367	1252
L6	spring	nest	1310	1299	1309	1244
L6	spring	nest	884	893	967	867
L6	spring	nest	1326	1303	1329	1268
L6	spring	nest	1421	1413	1480	1403
L6	spring	nest	1534	1468	1221	1174
L6	spring	nest	1299	1266	1330	1262
L6	spring	nest	1386	1389	1396	1333
L6	spring	nest	1104	1156	1191	1124
L6	spring	nest	1085	1075	1069	1115
L6	spring	nest	1596	1493	1545	1526
L6	spring	nest	1567	1490	1471	1468
L6	spring	nest	1470	1430	1348	1372
L6	spring	nest	1299	1244	1295	1252
L6	spring	nest	1099	1150	1184	1120
L6	spring	nest	897	857	880	855
L6	spring	nest	1263	1270	1264	1199
L6	spring	nest	1574	1549	1561	1466
L6	spring	nest	1484	1395	1452	1306
L6	spring	nest	1022	955	1015	913
L6	spring	nest	1227	1162	1258	1194
L6	spring	nest	1216	1151	1193	1161
L6	spring	nest	1460	1377	1318	1074
L6	spring	nest	1216	1190	1257	1133
L6	spring	nest	1345	1306	1304	1227
L6	spring	nest	1539	1426	1480	1450
L6	spring	nest	1174	1221	1261	1148
L6	spring	nest	1341	1287	1374	1300
L6	spring	nest	1538	1469	1498	1414
L6	spring	nest	1315	1291	1344	1231
L6	spring	nest	1323	1237	1312	1239
L6	spring	nest	1242	1242	1312	1243
L6	spring	nest	1474	1437	1448	1342

L6	spring	nest	1565	1330	1464	1342
L6	spring	nest	1076	1085	1023	999
L6	spring	nest	1327	1317	1376	1302
L6	spring	nest	1323	1252	1317	1186
L6	spring	trail	976	977	970	945
L6	spring	trail	1494	1447	1450	1365
L6	spring	trail	882	861	946	930
L6	spring	trail	1245	1239	1271	1240
L6	spring	trail	1493	1372	1460	1374
L6	spring	trail	1316	1345	1375	1244
L6	spring	trail	1378	1259	1315	1208
L6	spring	trail	1244	1251	1294	1235
L6	spring	trail	768	760	814	726
L6	spring	trail	1176	1179	1208	1164
L6	spring	trail	1502	1397	1427	1337
L6	spring	trail	1487	1341	1495	1355
L6	spring	trail	1356	1318	1396	1310
L6	spring	trail	1364	1270	1443	1285
L6	spring	trail	1518	1397	1457	1407
L6	spring	trail	1470	1369	1464	1361
L6	spring	trail	1514	1373	1427	1362
L6	spring	trail	1379	1350	1395	1345
L6	spring	trail	1339	1363	1415	1343
L6	spring	trail	1146	1101	1167	1114
L6	spring	trail	1478	1401	1461	1422
L6	spring	trail	1518	1566	1560	1420
L6	spring	trail	1535	1427	1484	1452
L6	spring	trail	1172	1218	1258	1145
L6	spring	trail	1353	1299	1286	1312
L6	spring	trail	1380	1383	1393	1329
L6	spring	trail	1482	1323	1468	1404
L6	spring	trail	1080	1070	1063	1111
L6	spring	trail	899	857	882	856
L6	spring	trail	1359	1321	1398	1312
L6	spring	trail	1361	1267	1439	1281
L6	spring	trail	1570	1545	1566	1464
L6	spring	trail	1484	1395	1452	1306
L6	spring	trail	1024	956	1017	915
L6	spring	trail	1230	1165	1261	1197
L6	spring	trail	1387	1391	1396	1334
L6	spring	trail	1108	1159	1194	1127
L6	spring	trail	1518	1376	1431	1366
L6	spring	trail	1380	1352	1397	1346

L6	spring	trail	1340	1364	1416	1344
L6	spring	trail	1140	1096	1162	1108
L6	spring	trail	1495	1448	1452	1366
L6	spring	trail	890	872	950	942
L6	spring	trail	1248	1243	1273	1241
L6	spring	trail	1379	1261	1317	1209
L6	spring	trail	1245	1253	1296	1237
L6	spring	trail	868	861	894	827
L6	spring	trail	1166	1170	1199	1154
L6	spring	trail	1225	1160	1255	1191
L6	spring	trail	1218	1153	1196	1163
L6	summer	nest	1501	1297	1390	1308
L6	summer	nest	1441	1331	1353	1253
L6	summer	nest	1410	1294	1178	1095
L6	summer	nest	1133	1123	1123	1098
L6	summer	nest	936	848	954	842
L6	summer	nest	1531	1371	1418	1233
L6	summer	nest	1263	1243	1250	1165
L6	summer	nest	1276	1168	1326	1186
L6	summer	nest	1190	1167	1236	1131
L6	summer	nest	1190	1163	1204	1156
L6	summer	nest	1485	1419	1388	1297
L6	summer	nest	965	974	1002	938
L6	summer	nest	1530	1402	1436	1377
L6	summer	nest	1072	1061	1104	1016
L6	summer	nest	1401	1318	1374	1287
L6	summer	nest	1534	1459	1452	1383
L6	summer	nest	1274	1244	1246	1179
L6	summer	nest	1357	1287	1333	1222
L6	summer	nest	890	870	872	799
L6	summer	nest	1273	1246	1279	1185
L6	summer	nest	959	941	850	735
L6	summer	nest	1239	1202	1180	1147
L6	summer	nest	1141	1048	1119	1053
L6	summer	nest	1437	1347	1364	1262
L6	summer	nest	1510	1378	1345	1345
L6	summer	nest	1075	1002	1070	1030
L6	summer	nest	1545	1389	1417	1324
L6	summer	nest	1062	1025	1079	975
L6	summer	nest	1415	1295	1395	1239
L6	summer	nest	1360	1314	1367	1353
L6	summer	nest	1374	1354	1401	1357
L6	summer	nest	930	959	946	871

L6	summer	nest	975	964	1003	930
L6	summer	nest	1283	1174	1263	1170
L6	summer	nest	1302	1180	1300	1196
L6	summer	nest	1351	1318	1361	1262
L6	summer	nest	1315	1261	1259	1168
L6	summer	nest	1430	1362	1354	1329
L6	summer	nest	1570	1469	1393	1371
L6	summer	nest	1204	1102	1195	1167
L6	summer	nest	1171	1149	1179	1093
L6	summer	nest	1078	1069	1032	1039
L6	summer	nest	1067	1046	1062	1015
L6	summer	nest	1173	1126	1183	1160
L6	summer	nest	1506	1335	1435	1338
L6	summer	nest	1544	1358	1446	1377
L6	summer	nest	1197	1140	1130	1108
L6	summer	nest	1242	1163	1180	1101
L6	summer	nest	1376	1209	1320	1249
L6	summer	nest	1561	1435	1460	1435

Appendix S2b.

Colony	Season	Mean FL	Territory area	Competitor	Habitat
Z1	spring	1154.5	26.0	no	flood
Z1	summer	1156.0	13.7	no	flood
L1	spring	1186.5	32.4	LF	park
L1	summer	1102.0	13.3	LF	park
L2	spring	1225.5	172.5	LF	park
L2	summer	1126.5	41.7	LF	park
L3	spring	1179.5	14.8	LM	park
L3	summer	1165.0	20.9	LM	park
L4	spring	1150.5	7.2	LM	park
L4	summer	1240.0	18.4	LM	park
L5	spring	1165.0	6.1	LM	park
L5	summer	1099.5	14.4	LM	park
L6	spring	1190.0	28.6	no	park
L6	summer	1155.0	11.2	no	park
L7	spring	1170.5	30.5	no	park
L7	summer	1156.0	14.2	no	park
M1	summer	1206.5	7.0	no	xer
M2	summer	1081.0	8.4	no	xer
P	spring	1300.0	48.8	LF	flood
R1	spring	1256.5	43.0	LF	flood
R1	summer	1188.5	8.0	LF	flood

R2	spring	1183.5	43.9	LF	flood
R2	summer	1120.5	29.8	LF	flood
R3	spring	1227.5	9.6	LM	flood
R3	summer	1170.0	4.2	LM	flood
R4	spring	1114.0	14.8	LM	flood
R4	summer	1088.0	14.0	LM	flood