

Supplementary material 1: Documentation of the cluster analysis

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Data

We selected the following six farm factors as variables for the proposed clustering algorithm based on expert knowledge and data availability: 1. LSU of suckler cows, 2. LSU of dairy cows, 3. the area of arable land (ha), 4. the area of grassland (ha), 5. the area of orchard (ha) (high-value trees and commercial fruit production), and 6. livestock intensity (total LSU per farm/ha). The high-value trees are planted for the promotion of farmland biodiversity. Since commercial fruit production only accounts for 1 % of the total orchard, both the high-value trees and commercial fruit production were combined into one variable (orchard). Table S1.1 presents the summary of the statistics of the selected variables. Since the units of the chosen variables vary, all the variables were standardized before conducting the cluster analysis. Consequently, all the variables have a mean of zero and a variance of one.

Table S1.1. The descriptive statistics of the selected variable. LSU is livestock unit

	Suckler cow (LSU)	Dairy cow (LSU)	Arable land (ha)	Grassland (ha)	Orchard (ha)	Livestock intensity (LSU/ha)
Minimum	0.0	0.0	0.0	0.0	0.0	0.0
1st quarter	0.0	0.0	0.0	1.9	3.9	0.0
Median	0.0	0.0	2.3	3.7	9.3	0.3
Mean	5.9	9.5	7.6	4.9	11.5	0.5
3rd quarter	0.0	12.8	11.6	6.8	17.5	0.9
Maximum	50.8	176.6	58.0	17.8	31.5	2.8

Method

K-means clustering, a centroid-based method, is applied in this exercise in R (Version 1.2.1335). K-means clustering is a non-hierarchical clustering technique that is one of the most often used

[1]. The algorithm surrounds the entered data points spherically around center points (centroids) and minimizes the total intra-cluster variation. The number of clusters (K) needs to be determined *a priori*. This is often done by trial and error. Nonetheless, one popular method to determine the appropriate number of centroids is the elbow method, which can demonstrate how the total intra-cluster variation decreases as the number of clusters increases [2]. The following graph shows the result of the elbow method with our datasets. The Total Within Sum of Square on the y-axis measures the sum of the distances within each identical cluster. Thus, the lower this value is, the better the result. However, the excessive number of K causes a so-called overfitting problem.

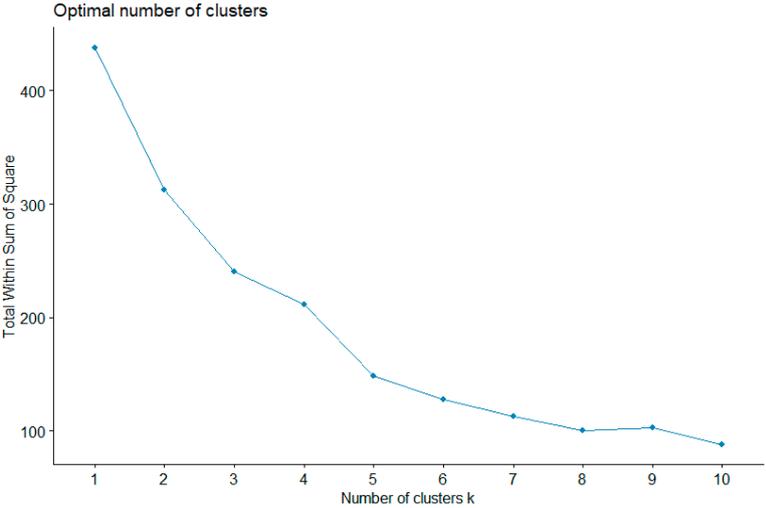


Figure S1.1. Result of the elbow method to determine the optimal number of centroids(K)

The result in Figure S1.1 indicates the optimal number of clusters is expected to be around six. The choice was made depending on the subsequent performance of K-means clustering and the data availability. Thus we conducted it with both K=6 and K=7.

Results

The following figures (Figure S1.2) present the resulting clusters with K=6 (left) and K=7 (right) on the two-dimensional plot with the principal component analysis.

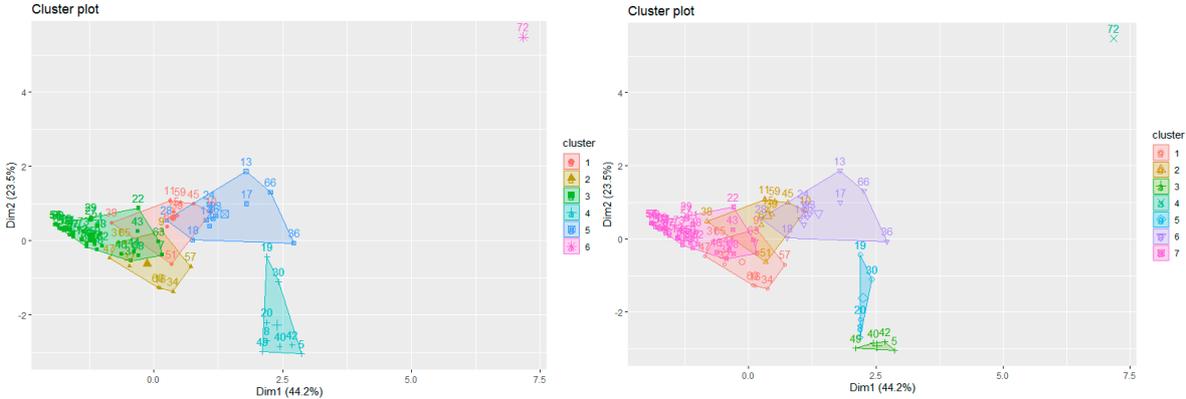


Figure S1.2. The clustering results with K-means. The left is with K=6. The right is with K=7

As these results demonstrate, the only difference between the clusters with K=6 and K=7 is that the bottom cluster (Cluster 4 in the left Figure S1.2) splits into two clusters with K=7. This cluster groups the farms with suckler cows. Given the small number of farms grouped in

Cluster 4 with $K=6$, increasing the centroids from six to seven does not provide useful insight. Furthermore, since the size of sample farms is relatively small, we continued the K-means clustering with $K=6$. Table S1.2 shows the result of clustering with $K=6$.

The clustering result manifests that dairy farms and suckler farms can be grouped relatively well. The algorithm can identify the difference well as the value of LSU is relatively large. Cluster 2 and 5 can be interpreted as dairy farms, while Cluster 3 as suckler farms. Cluster 6 groups both dairy farms and farms without livestock in the same cluster. Due to the lower value of LUS, the algorithm fails to distinguish these two farms.

Cluster 1 shows the tendency of high orchard value. This way of grouping is consistent with the characteristics of this region where planting high-value trees are widely implemented as a biodiversity promotion measure. While both Cluster 2 and 5 can be classified as dairy farms, dairy farms in Cluster 2 are smaller in LSU and higher in stock density compared to Cluster 6. Cluster 4 can be considered as an outlier as it has one farm and locates far away from the other clusters (Figure S1.2). Cluster 3 can be interpreted as suckler farms. Cluster 6 groups small scale farms, some of which have livestock. Because the identification of the clustering is performed by measuring the Euclidean distance among the observations, minor differences in absolute values can lead to this kind of unrealistic classification. Nonetheless, these clusters can reasonably be understood as small scale farms mainly without livestock, if any, low. Table S1.4 presents the average value of variables on each cluster.

Then we manually reclassified farms to remove such unrealistic classification according to expert knowledge. The reclassification is shown in Table S1.3. Table S1.5 shows the average value of variables on these adapted farm types. This manual correction of errors is necessary because, as shown in Table S1.5, some clusters have just a small number of LSU, which is not a realistic reflection of a typical farm and can be negligible. Furthermore, in the subsequent modeling process, this small number might cause unplausible results. Therefore, we manually sorted out to remove these negligible values and grouped farms into accordingly: 1. Orchard without livestock, 2. Small dairy farm, 3. Large dairy farm, 4. Suckler farm, 5. Small scale farming without livestock. The classification of dairy farms, either small or large, is made by using the median of the LSU of all dairy farms (22.6 LSU).

Table S1.2. Clustering results with the K-mean

Cluster	Suckler cows	Dairy cows	LSU Total	Stock intensity	Arable land	Grassland	Orchard	Area Total
1	0.0	0.0	0.0	0.0	24.7	2.3	19.0	45.9
1	16.7	0.0	16.7	0.6	0.0	0.7	25.1	25.8
1	0.0	0.0	0.0	0.0	8.8	2.3	15.4	26.5
1	0.0	0.0	0.0	0.0	0.4	7.2	18.4	28.1
1	8.5	0.0	8.5	0.2	1.5	7.6	26.4	35.9
1	0.0	0.0	0.0	0.0	0.0	3.5	17.8	21.3
1	0.0	0.0	0.0	0.0	16.8	6.4	30.4	53.6
1	0.0	0.0	0.0	0.0	0.0	7.0	31.5	38.5
1	0.0	0.0	0.0	0.0	10.7	2.5	16.4	29.7
2	0.0	21.2	21.2	1.0	2.4	1.6	17.7	21.7
2	0.0	32.1	32.1	1.3	5.8	7.1	11.6	24.5
2	0.0	21.7	21.7	1.2	8.9	2.6	6.3	17.8
2	0.0	21.1	21.1	0.8	12.2	2.6	13.1	27.9
2	0.0	5.4	5.4	0.9	0.0	1.9	4.5	6.4
2	0.0	23.5	23.5	1.0	7.4	2.9	14.1	24.4
2	0.0	30.2	30.2	1.1	10.0	2.0	14.3	26.3
2	16.7	0.0	16.7	1.3	0.0	6.0	6.7	12.7
2	0.0	6.7	6.7	2.8	0.0	0.0	2.4	2.4
3	47.8	0.0	47.8	0.9	11.2	14.5	25.6	51.3
3	47.4	0.0	47.4	1.1	9.1	9.6	26.3	45.0
3	39.3	0.0	39.3	0.8	10.2	17.2	24.4	51.8
3	40.5	0.0	40.5	1.0	0.0	11.0	28.7	39.7
3	46.9	0.0	46.9	1.0	11.3	4.0	31.3	46.6
3	31.5	18.9	50.4	1.0	28.0	1.9	19.5	49.4
3	50.8	0.0	50.8	1.3	15.2	4.3	19.6	39.1
3	41.5	0.0	41.5	0.7	38.0	5.8	15.1	58.9
4	0.0	176.6	176.6	2.0	58.0	9.3	19.8	87.0
5	0.0	27.7	27.7	0.8	8.6	8.0	17.1	33.6
5	0.0	36.9	36.9	0.7	35.6	6.3	8.2	50.5
5	0.0	16.9	16.9	0.4	20.4	10.7	10.6	41.7
5	0.0	38.0	38.0	0.7	24.8	3.1	25.1	53.0
5	0.0	22.6	22.6	0.9	0.0	9.6	15.4	25.0
5	0.0	29.6	29.6	0.9	11.7	9.0	12.9	33.6
5	0.0	27.4	27.4	0.9	14.9	9.8	6.1	30.8
5	0.0	26.6	26.6	0.6	17.7	4.7	20.8	43.2
5	0.0	13.3	13.3	0.4	14.0	6.5	9.3	30.1
5	0.0	40.0	40.0	0.7	13.5	17.8	25.4	56.7
5	0.0	46.9	46.9	1.2	18.3	13.8	7.9	40.0
6	0.0	0.0	0.0	0.0	0.0	0.9	2.8	3.8
6	0.0	0.0	0.0	0.0	0.0	0.5	7.1	7.6
6	0.0	0.0	0.0	0.0	1.5	1.1	4.8	7.3
6	14.2	0.0	14.2	0.6	9.6	6.3	6.8	22.8
6	0.0	0.0	0.0	0.0	1.6	0.2	11.2	13.0
6	0.0	0.0	0.0	0.0	8.5	4.6	2.4	15.5
6	0.0	11.3	11.3	0.5	13.2	2.3	5.7	21.3
6	0.0	0.0	0.0	0.0	0.0	6.3	3.9	10.2
6	0.0	0.0	0.0	0.0	9.9	2.9	1.8	14.5
6	0.0	0.0	0.0	0.0	11.7	1.4	3.1	16.2
6	0.0	0.0	0.0	0.0	0.0	3.0	9.2	12.2
6	0.0	0.0	0.0	0.0	0.0	0.7	8.2	8.9
6	7.9	0.0	7.9	0.5	0.0	4.8	11.7	16.5
6	0.0	0.0	0.0	0.0	0.0	3.2	0.7	4.3
6	0.0	6.4	6.4	0.3	9.4	5.2	10.1	24.7
6	3.9	0.0	3.9	0.2	3.1	11.2	3.7	18.0
6	6.2	0.0	6.2	0.4	0.0	4.7	9.3	14.0
6	0.0	2.5	2.5	0.2	2.1	4.7	4.8	11.7
6	0.0	1.6	1.6	0.1	0.8	2.4	10.2	13.4
6	0.0	0.0	0.0	0.0	0.0	6.3	6.0	12.3
6	0.0	0.0	0.0	0.0	0.0	1.0	3.8	4.7
6	0.0	0.0	0.0	0.0	0.0	0.6	0.6	1.3
6	0.0	0.0	0.0	0.0	0.0	0.9	0.3	1.2
6	0.0	0.0	0.0	0.0	0.0	1.2	0.0	1.2
6	0.0	0.0	0.0	0.0	0.0	3.7	12.3	16.0
6	0.0	0.0	0.0	0.0	0.0	0.5	14.5	14.9
6	0.0	0.0	0.0	0.0	0.0	8.9	3.9	12.7
6	11.6	0.0	11.6	0.4	16.8	4.7	7.1	28.6
6	0.0	0.0	0.0	0.0	0.0	0.1	3.5	3.6
6	0.0	0.0	0.0	0.0	0.0	3.3	2.8	6.1

6	6.3	0.0	6.3	0.4	1.1	10.9	3.4	15.5
6	0.0	0.0	0.0	0.0	0.0	1.4	0.2	1.6
6	0.0	0.0	0.0	0.0	1.0	1.5	2.4	5.8
6	0.0	0.0	0.0	0.0	0.0	3.8	0.2	4.0
6	0.0	0.0	0.0	0.0	3.4	3.5	3.5	10.4
6	0.0	0.0	0.0	0.0	0.0	2.9	7.5	10.5

Table S1.3. Clustering results after manually according to the interpretation of the resulting clusters

Cluster	Suckler cows	Dairy cows	LSU Total	Stock intensity	Arable land	Grassland	Orchard	Area Total
1	0.0	0.0	0.0	0.0	24.7	2.3	19.0	45.9
1	0.0	0.0	0.0	0.0	8.8	2.3	15.4	26.5
1	0.0	0.0	0.0	0.0	0.4	7.2	18.4	28.1
1	0.0	0.0	0.0	0.0	0.0	3.5	17.8	21.3
1	0.0	0.0	0.0	0.0	16.8	6.4	30.4	53.6
1	0.0	0.0	0.0	0.0	0.0	7.0	31.5	38.5
1	0.0	0.0	0.0	0.0	10.7	2.5	16.4	29.7
2	0.0	21.2	21.2	1.0	2.4	1.6	17.7	21.7
2	0.0	21.7	21.7	1.2	8.9	2.6	6.3	17.8
2	0.0	21.1	21.1	0.8	12.2	2.6	13.1	27.9
2	0.0	5.4	5.4	0.9	0.0	1.9	4.5	6.4
2	0.0	6.7	6.7	2.8	0.0	0.0	2.4	2.4
2	0.0	16.9	16.9	0.4	20.4	10.7	10.6	41.7
2	0.0	13.3	13.3	0.4	14.0	6.5	9.3	30.1
2	0.0	11.3	11.3	0.5	13.2	2.3	5.7	21.3
2	0.0	6.4	6.4	0.3	9.4	5.2	10.1	24.7
2	0.0	2.5	2.5	0.2	2.1	4.7	4.8	11.7
2	0.0	1.6	1.6	0.1	0.8	2.4	10.2	13.4
3	0.0	32.1	32.1	1.3	5.8	7.1	11.6	24.5
3	0.0	23.5	23.5	1.0	7.4	2.9	14.1	24.4
3	0.0	30.2	30.2	1.1	10.0	2.0	14.3	26.3
3	0.0	27.7	27.7	0.8	8.6	8.0	17.1	33.6
3	0.0	36.9	36.9	0.7	35.6	6.3	8.2	50.5
3	0.0	38.0	38.0	0.7	24.8	3.1	25.1	53.0
3	0.0	22.6	22.6	0.9	0.0	9.6	15.4	25.0
3	0.0	29.6	29.6	0.9	11.7	9.0	12.9	33.6
3	0.0	27.4	27.4	0.9	14.9	9.8	6.1	30.8
3	0.0	26.6	26.6	0.6	17.7	4.7	20.8	43.2
3	0.0	40.0	40.0	0.7	13.5	17.8	25.4	56.7
3	0.0	46.9	46.9	1.2	18.3	13.8	7.9	40.0
3	0.0	176.6	176.6	2.0	58.0	9.3	19.8	87.0
4	16.7	0.0	16.7	0.6	0.0	0.7	25.1	25.8
4	8.5	0.0	8.5	0.2	1.5	7.6	26.4	35.9
4	16.7	0.0	16.7	1.3	0.0	6.0	6.7	12.7
4	47.8	0.0	47.8	0.9	11.2	14.5	25.6	51.3
4	47.4	0.0	47.4	1.1	9.1	9.6	26.3	45.0
4	39.3	0.0	39.3	0.8	10.2	17.2	24.4	51.8
4	40.5	0.0	40.5	1.0	0.0	11.0	28.7	39.7
4	46.9	0.0	46.9	1.0	11.3	4.0	31.3	46.6
4	31.5	18.9	50.4	1.0	28.0	1.9	19.5	49.4
4	50.8	0.0	50.8	1.3	15.2	4.3	19.6	39.1
4	41.5	0.0	41.5	0.7	38.0	5.8	15.1	58.9
4	14.2	0.0	14.2	0.6	9.6	6.3	6.8	22.8
4	7.9	0.0	7.9	0.5	0.0	4.8	11.7	16.5
4	3.9	0.0	3.9	0.2	3.1	11.2	3.7	18.0
4	6.2	0.0	6.2	0.4	0.0	4.7	9.3	14.0
4	11.6	0.0	11.6	0.4	16.8	4.7	7.1	28.6
4	6.3	0.0	6.3	0.4	1.1	10.9	3.4	15.5
5	0.0	0.0	0.0	0.0	0.0	0.9	2.8	3.8
5	0.0	0.0	0.0	0.0	0.0	0.5	7.1	7.6
5	0.0	0.0	0.0	0.0	1.5	1.1	4.8	7.3
5	0.0	0.0	0.0	0.0	1.6	0.2	11.2	13.0
5	0.0	0.0	0.0	0.0	8.5	4.6	2.4	15.5
5	0.0	0.0	0.0	0.0	0.0	6.3	3.9	10.2
5	0.0	0.0	0.0	0.0	9.9	2.9	1.8	14.5
5	0.0	0.0	0.0	0.0	11.7	1.4	3.1	16.2
5	0.0	0.0	0.0	0.0	0.0	3.0	9.2	12.2
5	0.0	0.0	0.0	0.0	0.0	0.7	8.2	8.9
5	0.0	0.0	0.0	0.0	0.0	3.2	0.7	4.3
5	0.0	0.0	0.0	0.0	0.0	6.3	6.0	12.3
5	0.0	0.0	0.0	0.0	0.0	1.0	3.8	4.7
5	0.0	0.0	0.0	0.0	0.0	0.6	0.6	1.3
5	0.0	0.0	0.0	0.0	0.0	0.9	0.3	1.2
5	0.0	0.0	0.0	0.0	0.0	1.2	0.0	1.2
5	0.0	0.0	0.0	0.0	0.0	3.7	12.3	16.0
5	0.0	0.0	0.0	0.0	0.0	0.5	14.5	14.9
5	0.0	0.0	0.0	0.0	0.0	8.9	3.9	12.7
5	0.0	0.0	0.0	0.0	0.0	0.1	3.5	3.6

5	0.0	0.0	0.0	0.0	0.0	3.3	2.8	6.1
5	0.0	0.0	0.0	0.0	0.0	1.4	0.2	1.6
5	0.0	0.0	0.0	0.0	1.0	1.5	2.4	5.8
5	0.0	0.0	0.0	0.0	0.0	3.8	0.2	4.0
5	0.0	0.0	0.0	0.0	3.4	3.5	3.5	10.4
5	0.0	0.0	0.0	0.0	0.0	2.9	7.5	10.5

Table S1.4. The average value of variables on each farm type with K-mean clustering (shown in Table S1. 3)

Farm type	Count	Suckler cow	Dairy cow	LSU total	Stock intensity	Arable land	Grassland	Orchards	Total area
Orchard	9	2.8	0.0	2.8	0.1	7.0	4.4	22.3	33.9
Small dairy farm	9	1.9	18.0	19.8	1.3	5.2	3.0	10.1	18.2
Suckler farm	8	43.2	2.4	45.6	1.0	15.4	8.5	23.8	47.7
Outlier	1	0.0	176.6	176.6	2.0	58.0	9.3	19.8	87.0
Large dairy farm	11	0.0	29.6	29.6	0.8	16.3	9.0	14.4	39.8
Small farm	36	1.4	0.6	2.0	0.1	2.6	3.4	5.3	11.3
All	74	5.9	9.5	15.4	0.5	7.6	4.9	11.5	24.1

Table S1.5. The average value of variables on each farm type after manually removing errors (shown in Table S1. 4)

Farm type	Count	Suckler cow	Dairy cow	LSU total	Stock intensity	Arable land	Grassland	Orchards	Total area
Orchard	7	0.0	0.0	0.0	0.0	8.8	4.5	21.3	34.8
Small dairy farm	11	0.0	11.6	11.6	0.8	7.6	3.7	8.6	19.9
Large dairy farm	13	0.0	42.9	42.9	1.0	17.4	8.0	15.3	40.7
Suckler farm	17	25.8	1.1	26.9	0.7	9.1	7.4	17.1	33.6
Small farm	26	0.0	0.0	0.0	0.0	1.4	2.5	4.5	8.5
All	74	5.9	9.5	15.4	0.5	7.6	4.9	11.5	24.1

References

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2. Bholowalia, P.; Kumar, A. EBK-Means: A Clustering Technique Based on Elbow Method and K-Means in WSN. *Int. J. Comput. Appl.* **2014**, *105*, 975–8887.

Appendix: Original datasets

Suckler cows	Dairy cows	Grand Total	Arable land	Grassland	Orchard	Area_Total	Stock intensity
0.0	0.0	0.0	0.0	0.9	2.8	3.8	0.00
0.0	0.0	0.0	0.0	0.5	7.1	7.6	0.00
0.0	0.0	16.0	1.5	1.1	4.8	7.3	0.00
0.0	27.7	30.5	8.6	8.0	17.1	33.6	0.82
47.8	0.0	49.1	11.2	14.5	25.6	51.3	0.93
0.0	21.2	21.2	2.4	1.6	17.7	21.7	0.98
14.2	0.0	14.2	9.6	6.3	6.8	22.8	0.62
46.9	0.0	46.9	11.3	4.0	31.3	46.6	1.01
0.0	0.0	25.7	24.7	2.3	19.0	45.9	0.00
0.0	32.1	35.2	5.8	7.1	11.6	24.5	1.31
0.0	21.7	21.7	8.9	2.6	6.3	17.8	1.22
0.0	0.0	0.0	1.6	0.2	11.2	13.0	0.00
0.0	36.9	36.9	35.6	6.3	8.2	50.5	0.73
0.0	16.9	16.9	20.4	10.7	10.6	41.7	0.41
0.0	21.1	21.1	12.2	2.6	13.1	27.9	0.76
16.7	0.0	21.3	0.0	0.7	25.1	25.8	0.65
0.0	38.0	43.1	24.8	3.1	25.1	53.0	0.72
0.0	22.6	24.3	0.0	9.6	15.4	25.0	0.90
31.5	18.9	53.6	28.0	1.9	19.5	49.4	1.02
50.8	0.0	50.8	15.2	4.3	19.6	39.1	1.30
0.0	0.0	0.0	8.5	4.6	2.4	15.5	0.00
0.0	11.3	11.8	13.2	2.3	5.7	21.3	0.53
0.0	29.6	32.1	11.7	9.0	12.9	33.6	0.88
0.0	27.4	27.4	14.9	9.8	6.1	30.8	0.89
0.0	0.0	10.3	0.0	6.3	3.9	10.2	0.00
0.0	26.6	26.6	17.7	4.7	20.8	43.2	0.61
0.0	0.0	0.0	9.9	2.9	1.8	14.5	0.00
0.0	13.3	13.4	14.0	6.5	9.3	30.1	0.44
0.0	0.0	6.5	11.7	1.4	3.1	16.2	0.00
41.5	0.0	44.2	38.0	5.8	15.1	58.9	0.70
0.0	0.0	0.0	8.8	2.3	15.4	26.5	0.00
0.0	0.0	0.0	0.4	7.2	18.4	28.1	0.00
0.0	0.0	3.6	0.0	3.0	9.2	12.2	0.00
8.5	0.0	12.8	1.5	7.6	26.4	35.9	0.24
0.0	0.0	3.2	0.0	0.7	8.2	8.9	0.00
0.0	40.0	40.4	13.5	17.8	25.4	56.7	0.71
7.9	0.0	13.7	0.0	4.8	11.7	16.5	0.48
0.0	5.4	5.4	0.0	1.9	4.5	6.4	0.86
0.0	23.5	23.6	7.4	2.9	14.1	24.4	0.96
47.4	0.0	49.8	9.1	9.6	26.3	45.0	1.05
0.0	0.0	11.2	0.0	3.2	0.7	4.3	0.00
39.3	0.0	39.7	10.2	17.2	24.4	51.8	0.76
0.0	6.4	6.4	9.4	5.2	10.1	24.7	0.26
3.9	0.0	7.8	3.1	11.2	3.7	18.0	0.22
0.0	30.2	30.3	10.0	2.0	14.3	26.3	1.15
6.2	0.0	34.0	0.0	4.7	9.3	14.0	0.45
0.0	0.0	0.0	0.0	3.5	17.8	21.3	0.00
0.0	2.5	2.6	2.1	4.7	4.8	11.7	0.22
40.5	0.0	40.5	0.0	11.0	28.7	39.7	1.02
0.0	1.6	3.9	0.8	2.4	10.2	13.4	0.12
16.7	0.0	19.3	0.0	6.0	6.7	12.7	1.32
0.0	0.0	0.0	0.0	6.3	6.0	12.3	0.00
0.0	0.0	0.0	0.0	1.0	3.8	4.7	0.00
0.0	0.0	0.0	0.0	0.6	0.6	1.3	0.00
0.0	0.0	0.0	0.0	0.9	0.3	1.2	0.00
0.0	0.0	0.0	0.0	1.2	0.0	1.2	0.00
0.0	0.0	0.0	16.8	6.4	30.4	53.6	0.00
0.0	0.0	0.0	0.0	3.7	12.3	16.0	0.00
0.0	6.7	9.9	0.0	0.0	2.4	2.4	2.75
0.0	0.0	0.0	0.0	7.0	31.5	38.5	0.00
0.0	0.0	0.0	0.0	0.5	14.5	14.9	0.00
0.0	0.0	13.3	0.0	8.9	3.9	12.7	0.00
11.6	0.0	11.6	16.8	4.7	7.1	28.6	0.41
0.0	0.0	0.0	0.0	0.1	3.5	3.6	0.00
0.0	0.0	2.9	10.7	2.5	16.4	29.7	0.00

0.0	46.9	46.9	18.3	13.8	7.9	40.0	1.17
0.0	0.0	3.7	0.0	3.3	2.8	6.1	0.00
6.3	0.0	6.3	1.1	10.9	3.4	15.5	0.41
0.0	0.0	0.0	0.0	1.4	0.2	1.6	0.00
0.0	0.0	0.0	1.0	1.5	2.4	5.8	0.00
0.0	0.0	0.0	0.0	3.8	0.2	4.0	0.00
0.0	176.6	176.6	58.0	9.3	19.8	87.0	2.03
0.0	0.0	0.0	3.4	3.5	3.5	10.4	0.00
0.0	0.0	0.0	0.0	2.9	7.5	10.5	0.00