

Table 3 Results of cluster analysis on factor scores for the regional divisions of agriculture in British Columbia, Canada

| Cluster | Number of regions | Means (above) and variances (beneath) | | | | | | | | | | Sum of variance |
|---------|-------------------|---------------------------------------|--------------|--------------|--------------|-------------|-------------|----------|-------------|--------------|-----------|-----------------|
| | | Factor 1 | Factor 2 | Factor 3 | Factor 4 | Factor 5 | Factor 6 | Factor 7 | Factor 8 | Factor 9 | Factor 10 | |
| A | 32 | <u>-0.13</u> | 0.04 | -0.01 | 0.02 | -0.02 | -0.01 | -0.01 | -0.05 | 0.00 | 0.00 | 0.05 |
| | | 0.03 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| B | 50 | <u>0.14</u> | 0.05 | -0.02 | 0.02 | -0.01 | 0.00 | -0.01 | 0.01 | 0.00 | 0.02 | 0.05 |
| | | 0.03 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| C | 20 | <u>-0.18</u> | 0.04 | <u>-0.08</u> | <u>-0.05</u> | -0.01 | -0.01 | 0.00 | 0.05 | 0.03 | -0.03 | 0.06 |
| | | 0.02 | 0.00 | 0.01 | 0.01 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | |
| D | 7 | 0.03 | <u>-0.50</u> | <u>-0.10</u> | <u>0.07</u> | -0.03 | -0.01 | 0.01 | 0.00 | 0.01 | 0.00 | 0.03 |
| | | 0.01 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| E | 3 | <u>0.13</u> | 0.02 | -0.02 | 0.02 | 0.04 | <u>0.34</u> | 0.02 | 0.02 | 0.00 | -0.01 | 0.01 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| F | 8 | -0.02 | <u>-0.08</u> | <u>0.11</u> | <u>-0.14</u> | 0.01 | -0.01 | 0.07 | -0.02 | <u>-0.12</u> | -0.01 | 0.11 |
| | | 0.01 | 0.03 | 0.01 | 0.05 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | |
| G | 4 | -0.05 | -0.01 | <u>0.63</u> | 0.03 | -0.01 | -0.04 | 0.00 | <u>0.07</u> | 0.01 | -0.01 | 0.08 |
| | | 0.02 | 0.01 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| H | 2 | <u>0.18</u> | -0.04 | 0.04 | 0.01 | <u>0.64</u> | -0.04 | 0.02 | -0.04 | 0.03 | -0.02 | 0.14 |
| | | 0.07 | 0.00 | 0.00 | 0.00 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |

Underline shows more than 0.1 in absolute value after rounding.

Source: Table 2 and The 2011 Census of Agriculture.

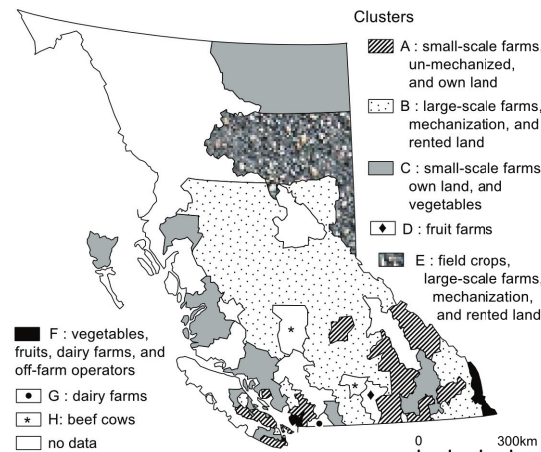


Fig. 5 Cluster distribution for the regional divisions of agriculture in British Columbia, Canada (Source: The 2011 Census of Agriculture and Tables 1–3).

highest for factor 1. Consequently, this group contrasts in character to cluster A, as it is characterized by large-scale farms and mechanized and rented land. The areas in this cluster are spread over the central part of the province and the foot of the Rocky Mountains.

In cluster C, the mean values of factor scores were low for factors 1, 3, and 4. In consequence, this group consists of small-scale farms, owned land, and vegetable production. The areas of this cluster are situated on Vancouver and Graham islands, in coastal areas, at the foot of the Rocky Mountains, and in the Northern Rockies.

In cluster D, the mean factor scores were very low for factor 2. This group shows a high percentage of fruit farms. The areas categorized into this cluster converge at Okanagan Valley. In census agricultural regions, they are included in Thompson-Okanagan.

In cluster E, high factor scores were obtained for factors

1 and 6. Therefore, this cluster includes a high percentage of field crop production, large-scale farms with rented land, and mechanization. In census-agricultural regions, only the Peace River includes this group.

In cluster F, the highest factor score was for factor 3, and the lowest scores were for factors 2, 4, and 9. Consequently, this cluster corresponds to the production of vegetables, dairy, and fruits. Additionally, the percentage of “operators who live on the farm” is low. In census-agricultural region data, the areas of this group are included in Lower Mainland-Southwest, Vancouver Island-Coast, and Kootenay.

In cluster G, the mean factor scores were very high for factor 3. Therefore, this group shows a high percentage of dairy farms. In census-agricultural region data, the areas in this group are located only in Lower Mainland-Southwest.

In cluster H, the mean factor scores were highest for