**Jaguars in the matrix: population, prey abundance and land-cover change in a fragmented landscape in western Mexico**

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Supplementary Material 1Confusion matrix computed for the analysis of the changes in vegetation cover in the study area in Nayarit, western Mexico, between 1999 and 2019. Values are reported in percentages. The overall accuracy is 80%, and the Kappa coefficient is 82.17.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | Observations |  |  |  |  |
| Number of verifications | Bounded units | Water bodies | Infrastructure | Mangrove | Agricultural lands | Bare land | Secondary vegetation | Interpretation accuracy |  |
| 10 | Water bodies | 7 | 0 | 3 | 0 | 0 | 0 | 87.50 | % |  |  |
| 10 | Infrastructure | 0 | 10 | 0 | 0 | 0 | 0 | 100.00 | % |  |  |
| 10 | Mangrove | 0 | 0 | 6 | 0 | 4 | 0 | 66.67 | % |  |  |
| 10 | Agricultural lands | 0 | 0 | 0 | 10 | 0 | 0 | 83.33 | % |  |  |
| 10 | Bare land | 1 | 0 | 0 | 2 | 7 | 0 | 53.85 | % |  |  |
| 10 | Secondary vegetation | 0 | 0 | 0 | 0 | 2 | 8 | 100.00 | % |   |  |
| 60 | Total | 8 | 10 | 9 | 12 | 13 | 8 | 81.89 | %  |
|  |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  | Confusion Matrix |  |  |  |
|   | Water bodies | Infrastructure | Mangrove | Agricultural lands | Bare land | Secondary vegetation |   |
| Water bodies | 7 | 0 | 3 | 0 | 0 | 0 | 10 |
| Infrastructure | 0 | 10 | 0 | 0 | 0 | 0 | 10 |
| Mangrove | 0 | 0 | 6 | 0 | 4 | 0 | 10 |
| Agricultural lands | 0 | 0 | 0 | 10 | 0 | 0 | 10 |
| Bare land | 1 | 0 | 0 | 2 | 7 | 0 | 10 |
| Secondary vegetation | 0 | 0 | 0 | 0 | 2 | 8 | 10 |
|  | 8 | 10 | 9 | 12 | 13 | 8 | 60 |
|  |  |  |  |  |  |  |  |
|  |  |  |  | Overall Accuracy | 80 |
|  |  |  |  |  | Kappa |  | 82.17 |