



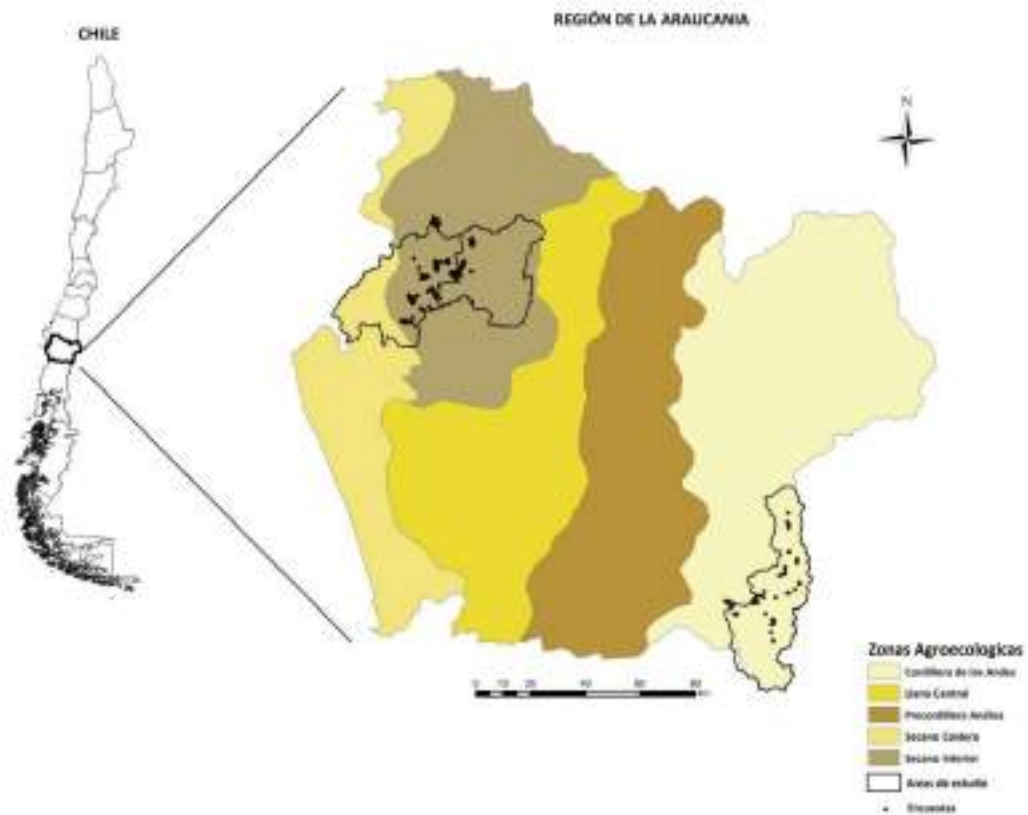
# Relación entre diversidad cultivada y diversidad étnico-cultural de los agricultores, a nivel de territorio

**Dr. René Montalba Navarro**

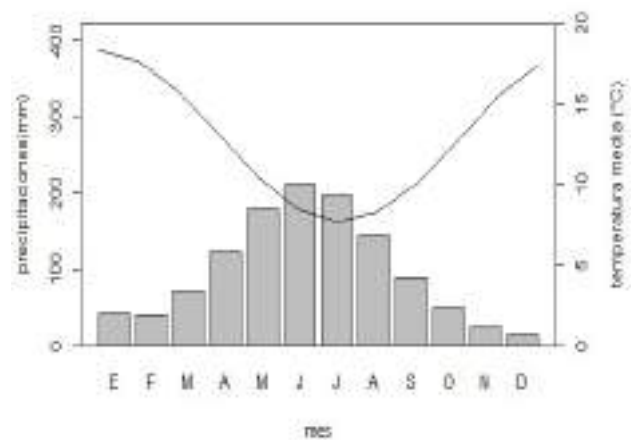
*LABORATORIO DE AGROECOLOGÍA Y SUSTENTABILIDAD ALIMENTARIA*

Universidad de La Frontera  
(rene.montalba@ufrontera.cl)

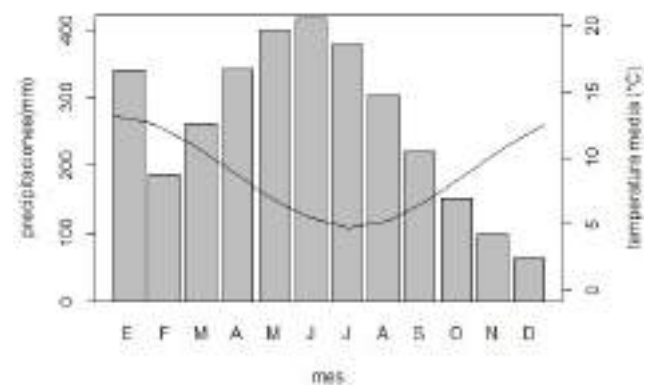




LUMACO

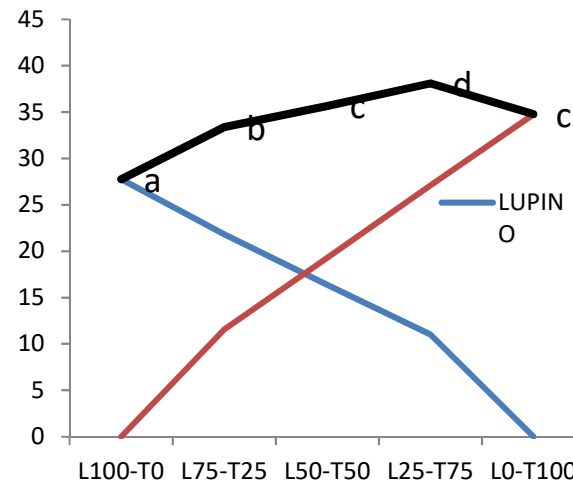
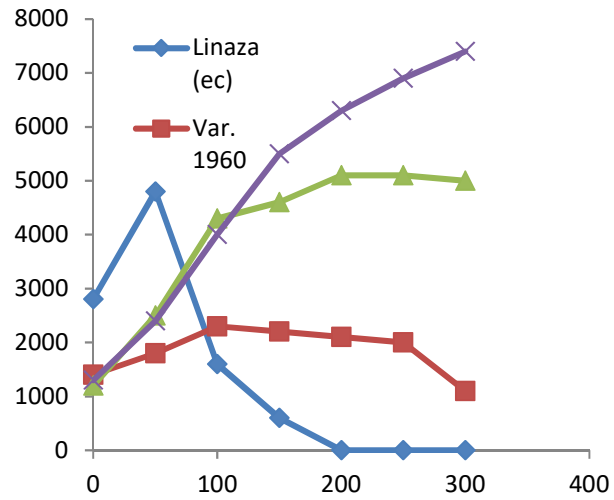


TRANCURA BAJO



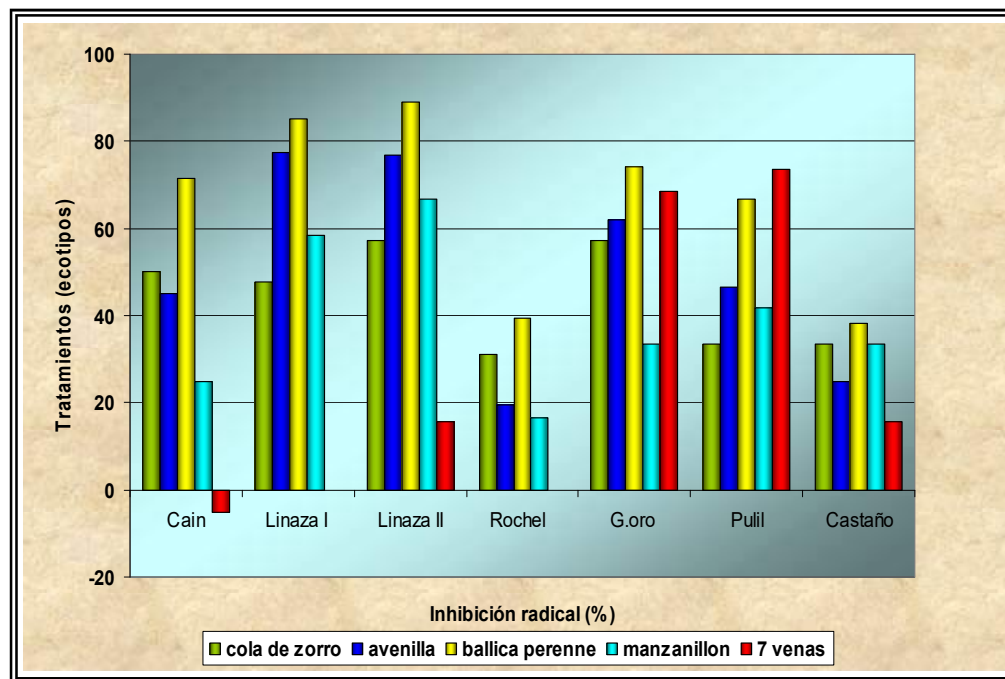


| ECOTIPO       | Rendimiento (qqm/ha) | % Rdto. de acuerdo testigo |
|---------------|----------------------|----------------------------|
| Caín          | 28,82 b              | 275,0                      |
| Castaño       | 46,95 a              | 441,7                      |
| Grano de Oro  | 44,62 c              | 425,8                      |
| Linaza I      | 39,99 c              | 381,6                      |
| Linaza II     | 44,77 c              | 427,2                      |
| Pulil         | 40,19 c              | 383,5                      |
| Rochel        | 29,30 b              | 279,6                      |
| SNA (testigo) | 10,48 a              | 100,0                      |



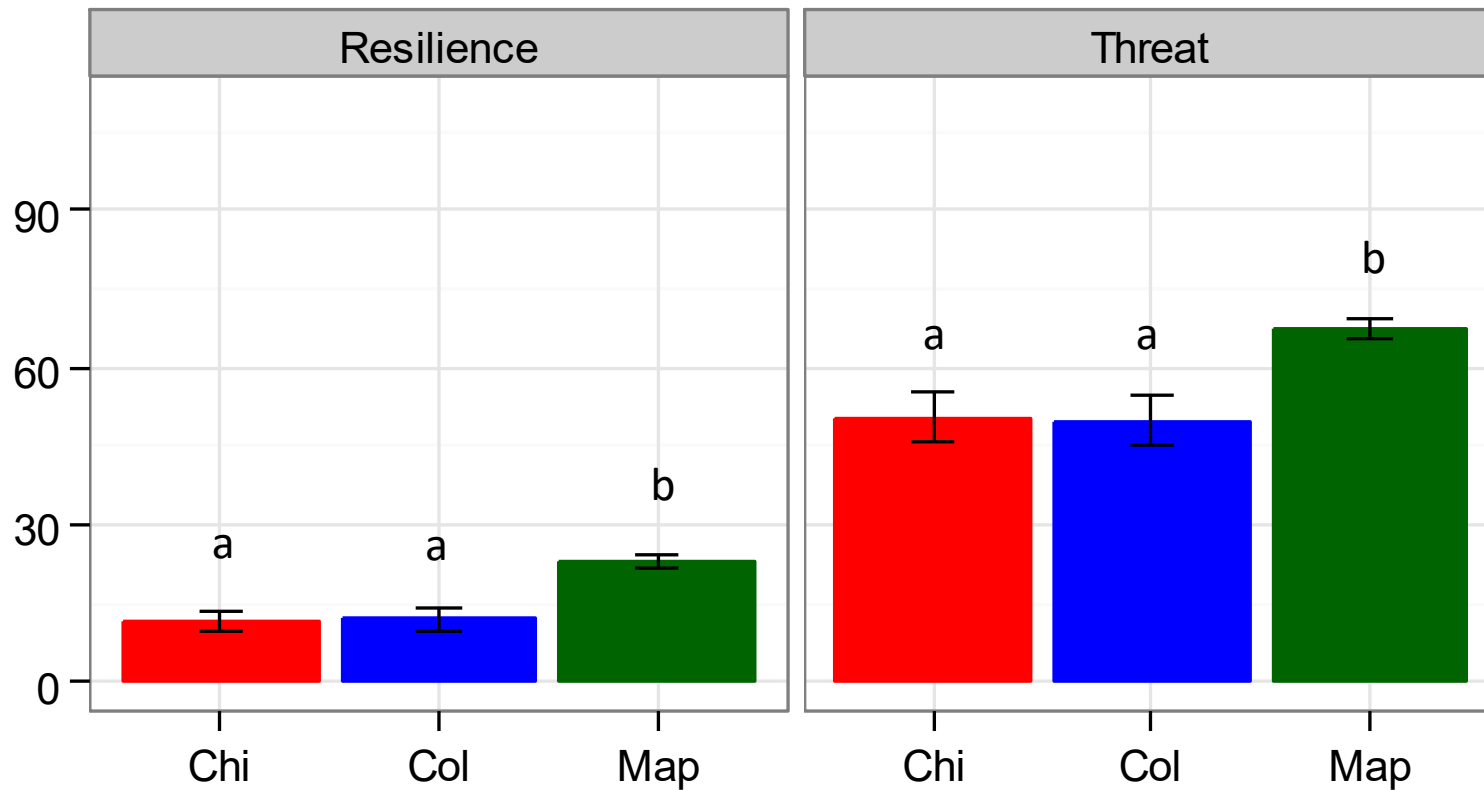
Montalba et al., 2012

|                  | Estado de evaluación |         |
|------------------|----------------------|---------|
| Ecotipos         | Macolla              | Antésis |
| Linaza           | 35.0                 | 44.6    |
| Caín             | 27.1                 | 43.8    |
| Castaño colorado | 20.6                 | 45.3    |
| Grano de oro     | 23.4                 | 55.3    |
| Huitramalal      | 27.4                 | 41.4    |
| Rochel           | 30.8                 | 36.2    |
| Pata de pidén    | 18.1                 | 52.9    |
| Pulil            | 25.8                 | 37.6    |
| SNA              | 18.2                 | 22.4    |



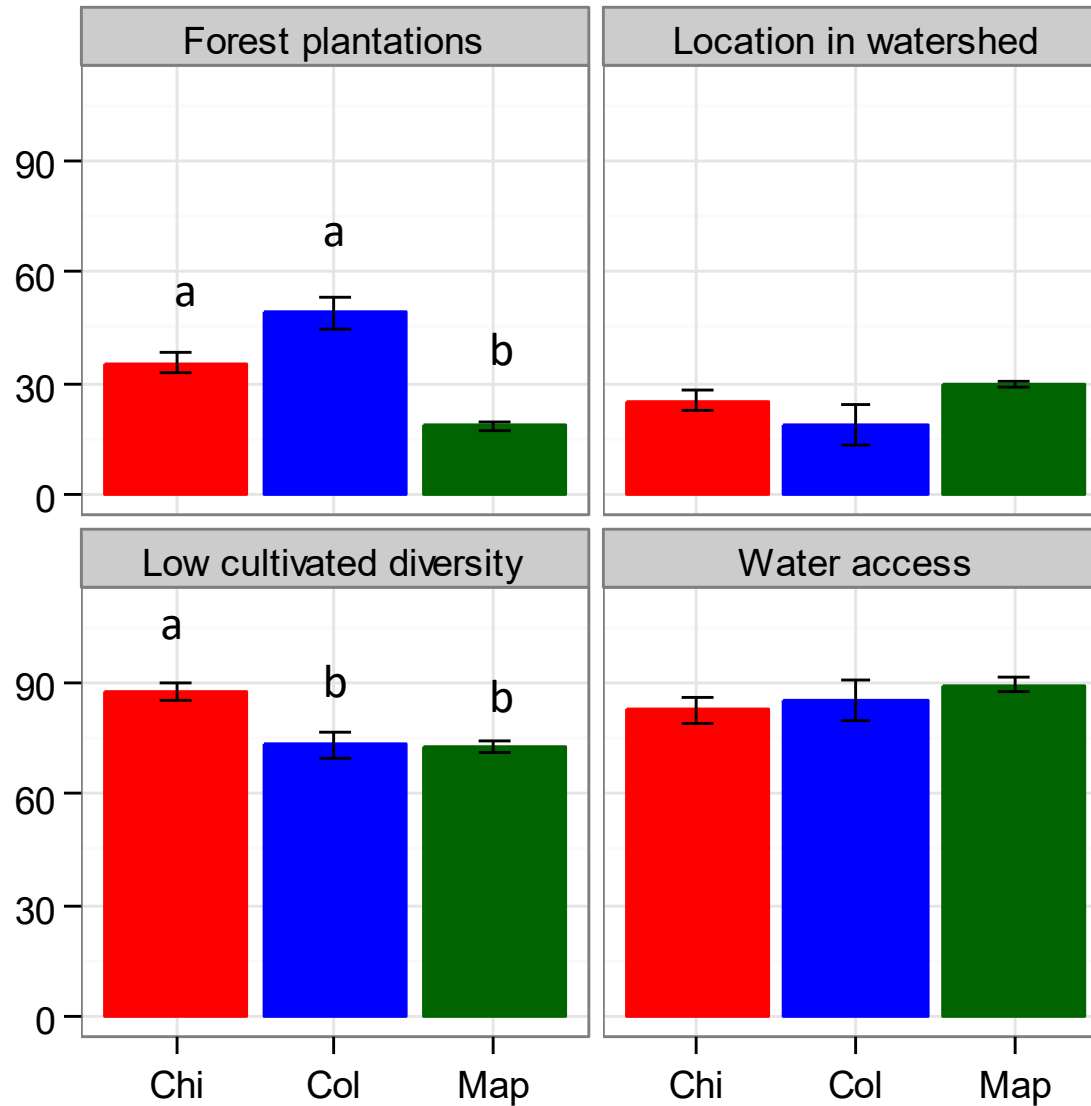
| Grupos | Ecotipos que conforman los grupos  | Promedio (mm) crecimiento micelial |
|--------|--|------------------------------------|
| 1      | Ecotipos; Linaza I, Caín, Varón, Grano de oro, NN 1 y Cebada, trigo cv. Otto | 1,8 a                              |
| 2      | Ecotipos Linaza II, R 3, NN 17, NN 24 y Castaño, y avena cv. Urano           | 5,8 b                              |
| 3      | Ecotipos Pulil y diente de perro   | 10,8 c                             |
| 4      | Ecotipo NN 31, trigo cv. Kumpa y control                                     | 24,1 d                             |

# Resiliencia socioecológica



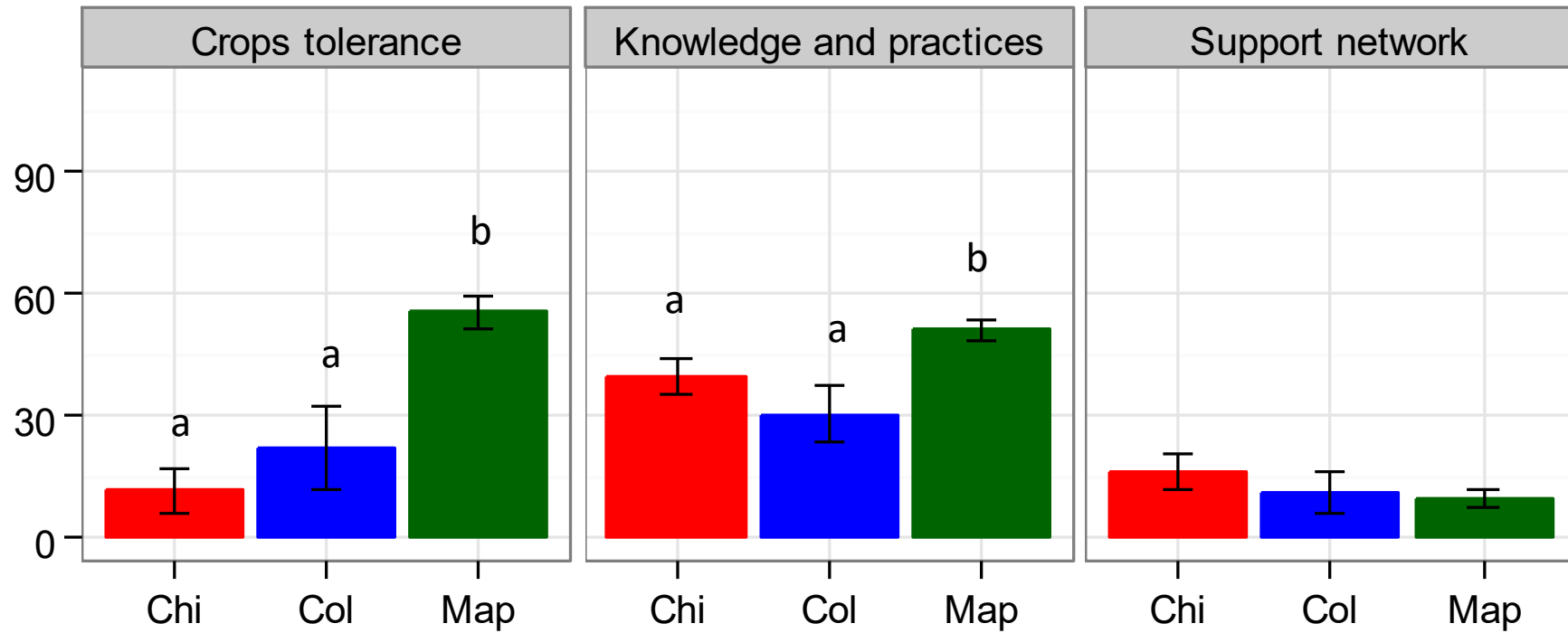
Tukey's post hoc test (with heteroscedastic consistent covariance estimation)

# Vulnerability



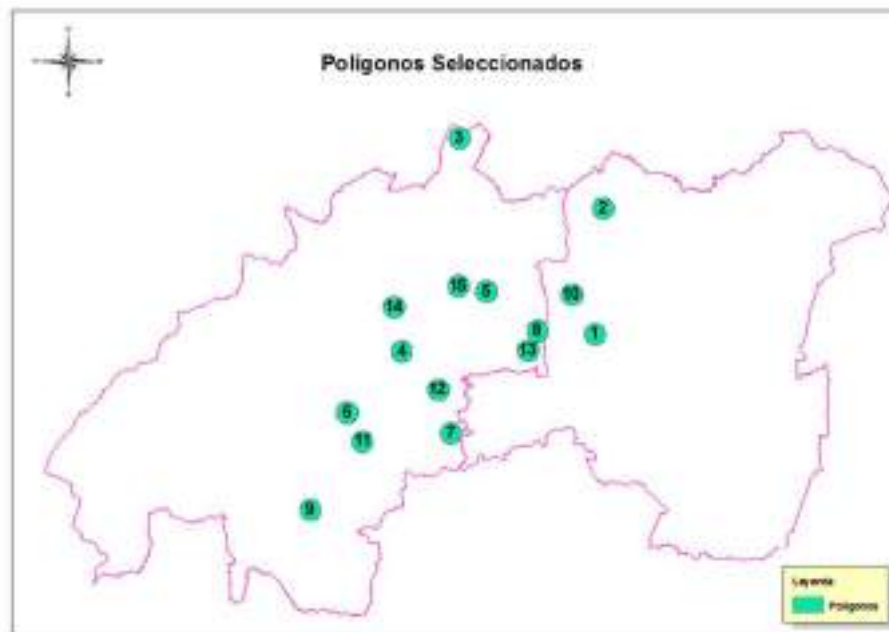
Tukey's post hoc test (with heteroscedastic consistent covariance estimation)

# Response capacity

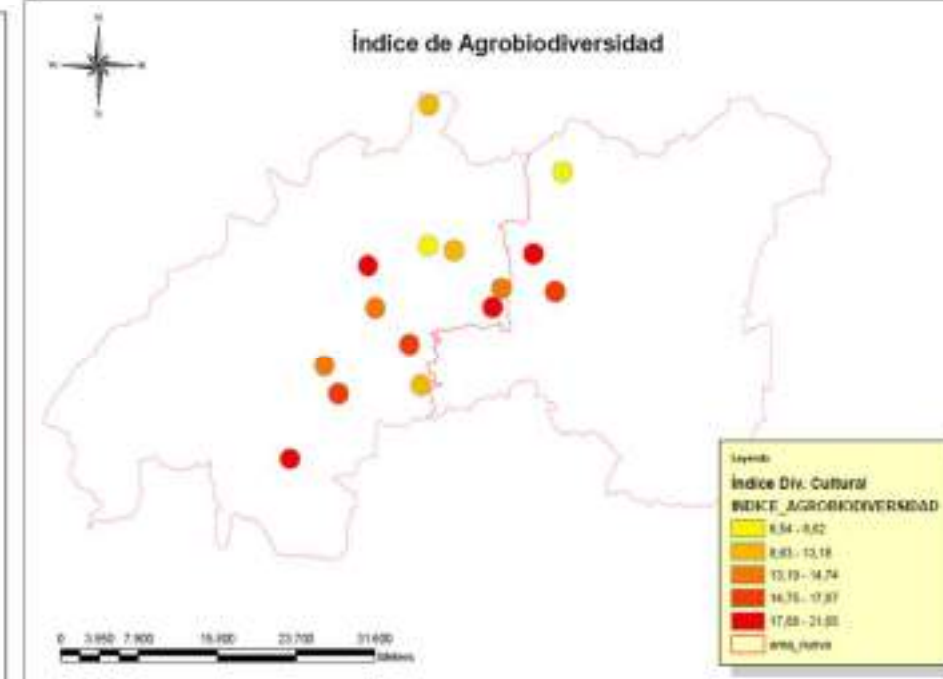
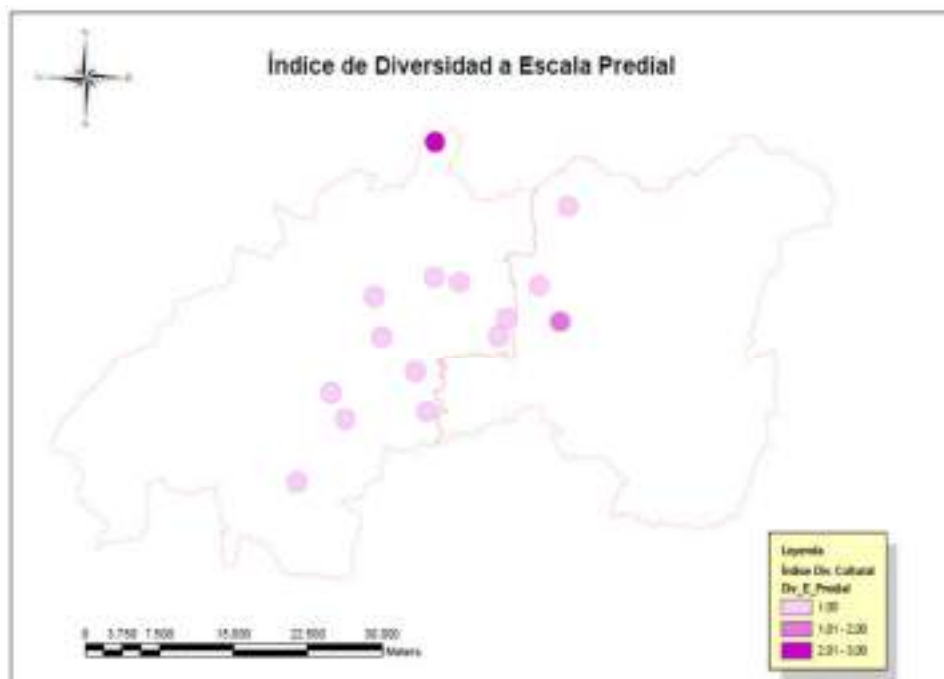
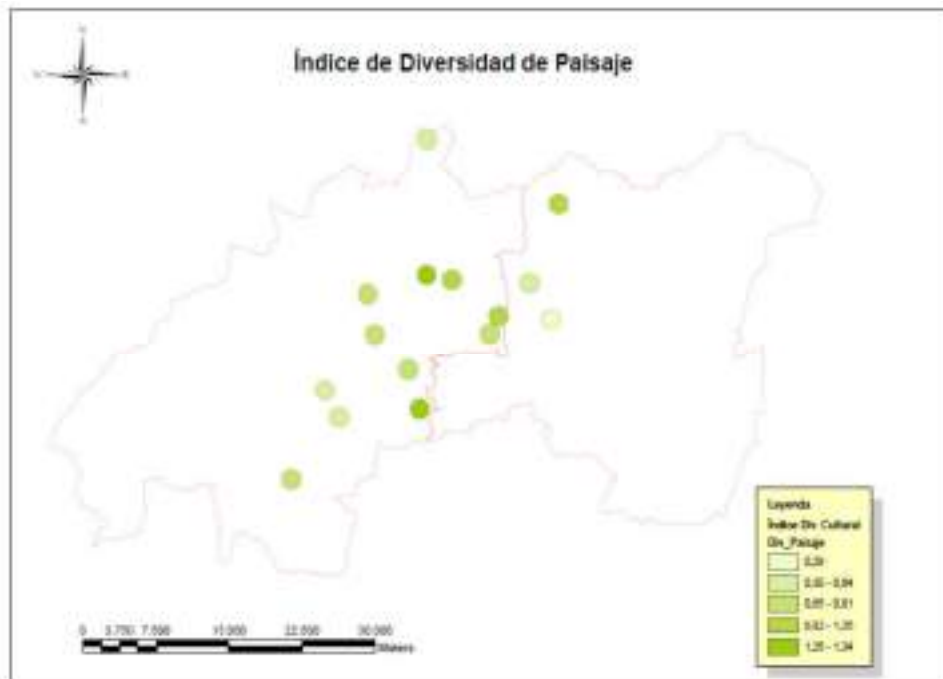
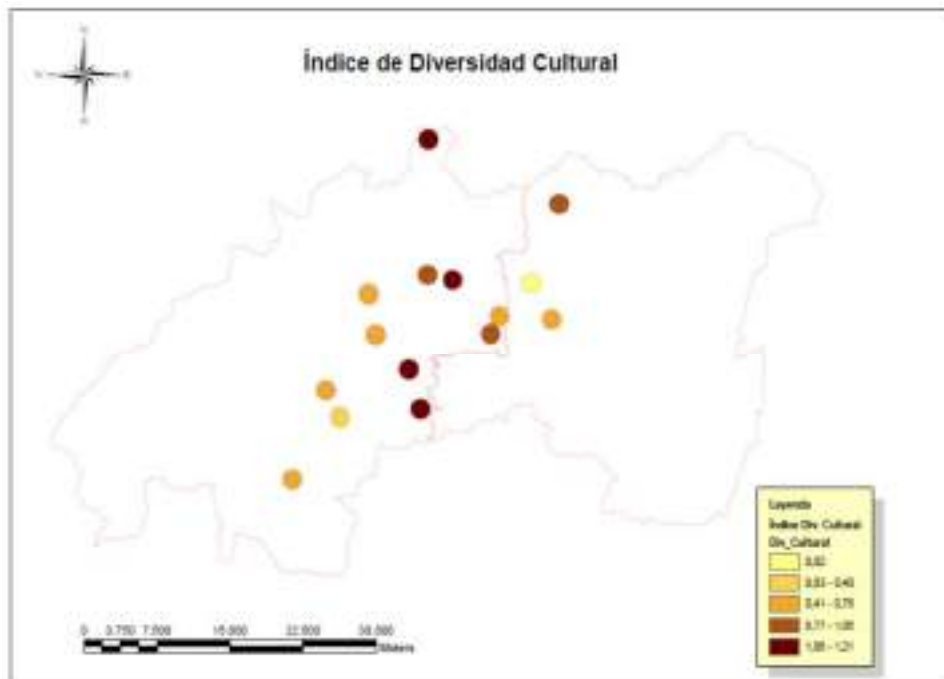


Tukey's post hoc test (with heteroscedastic consistent covariance estimation)

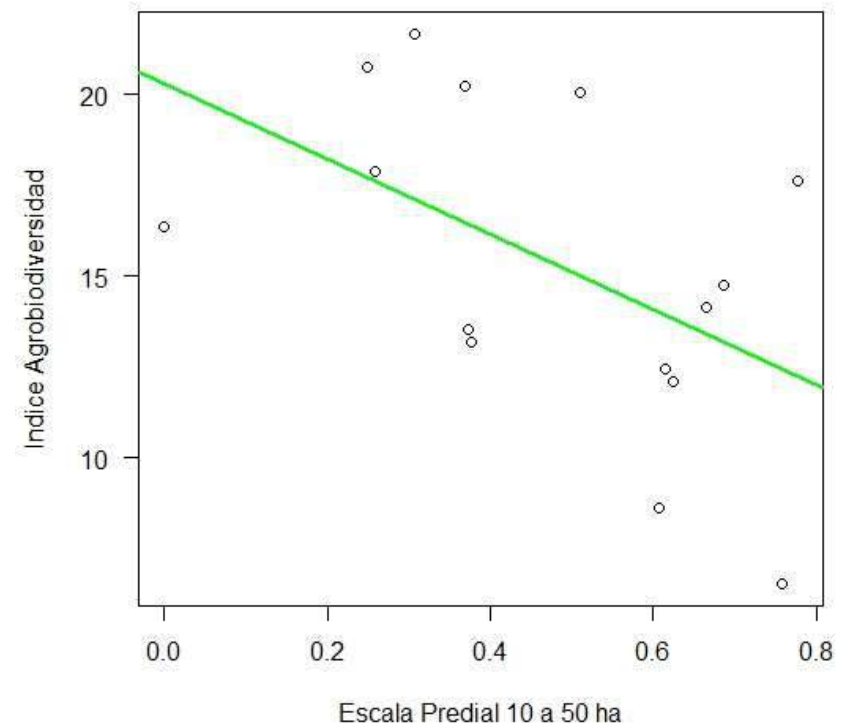
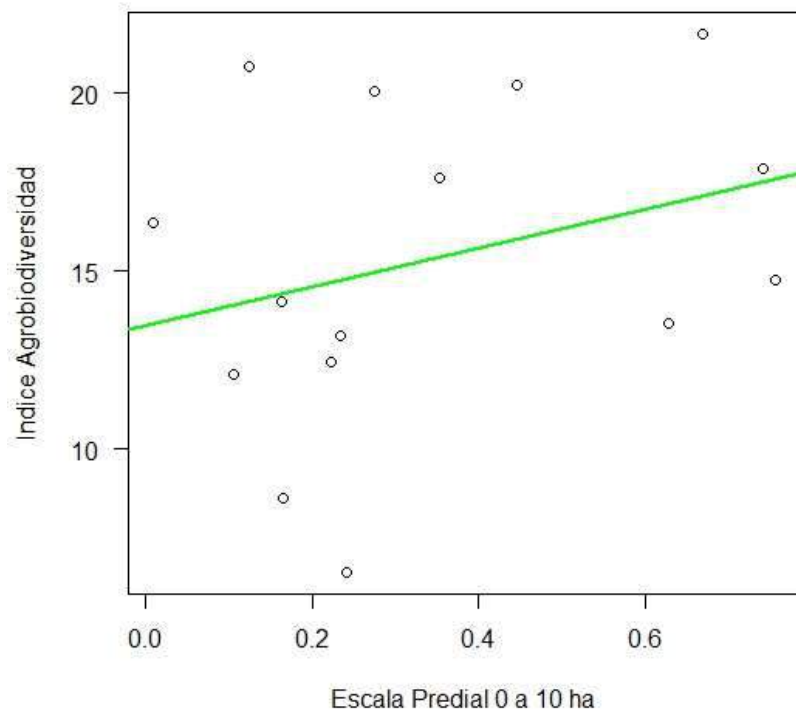




| Polígono             |                                    |        | Tipo de Predio |                |                 |                |           | Total Predios según superficie |            |               |               | Predios según tipo de cobertura |            |                |           |                |            |               |          |               |               |                |            |                |               |               |                     |              |            |              |           |               |
|----------------------|------------------------------------|--------|----------------|----------------|-----------------|----------------|-----------|--------------------------------|------------|---------------|---------------|---------------------------------|------------|----------------|-----------|----------------|------------|---------------|----------|---------------|---------------|----------------|------------|----------------|---------------|---------------|---------------------|--------------|------------|--------------|-----------|---------------|
| N°                   | Área Ocupada por Grupos Culturales | área   | Mapuche        |                | Chileno-Mapuche |                | Chileno   |                                | Extranjero |               | Agri-Forestal |                                 | < 10 ha    |                | 10-50 ha  |                | 50 -100 ha |               | >100     |               | Agri-Ganadero |                | Plantación |                | Bosque Nativo |               | Bosque - Plantación |              | Protección |              | Matorral  |               |
|                      |                                    |        | N°             | [há]           | N°              | [há]           | N°        | [há]                           | N°         | [há]          | N°            | [há]                            | N°         | [há]           | N°        | [há]           | N°         | [há]          | N°       | [há]          | N°            | [há]           | N°         | [há]           | N°            | [há]          | N°                  | [há]         | N°         | [há]         | N°        | [há]          |
| 1                    | 277,78                             | 314,12 | 35             | 54,28          | 12              | 145,05         | 4         | 36,05                          | 3          | 42,39         | 2             | 36,34                           | 34         | 97,81          | 9         | 216,3          | 0          | 0             | 0        | 0             | 2             | 182,60         | 8          | 120,39         | 4             | 11,13         | 0                   | 0            | 0          | 0            | 0         | 0             |
| 2                    | 276,91                             | 314,12 | 20             | 37,61          | 6               | 125,19         | 6         | 98,13                          | 1          | 15,98         | 0             | 0,00                            | 7          | 28,66          | 8         | 172,83         | 2          | 112,61        | 0        | 0             | 1             | 219,94         | 5          | 94,17          | 0             | 0             | 0                   | 0            | 0          | 0            | 0         | 0             |
| 3                    | 214,25                             | 314,12 | 97             | 172,97         | 5               | 15,18          | 7         | 26,11                          | 0          | 0,00          | 7             | 96,22                           | 84         | 162,49         | 7         | 147,9          | 0          | 0             | 0        | 0             | 3             | 235,90         | 8          | 42,61          | 0             | 0             | 0                   | 0            | 0          | 0            | 1         | 31,90         |
| 4                    | 313,44                             | 314,12 | 29             | 64,38          | 7               | 165,39         | 11        | 57,44                          | 1          | 26,22         | 0             | 0,00                            | 29         | 72,59          | 5         | 118,02         | 2          | 123,49        | 0        | 0             | 4             | 151,62         | 18         | 102,86         | 4             | 35,59         | 1                   | 14,88        | 2          | 9,17         | 0         | 0             |
| 5                    | 314,12                             | 314,12 | 70             | 245,71         | 12              | 34,43          | 3         | 33,98                          | 1          | 0,00          | 0             | 0,00                            | 52         | 197,46         | 7         | 116,65         | 0          | 0             | 0        | 0             | 1             | 249,04         | 5          | 94,17          | 0             | 0             | 1                   | 0,64         | 0          | 0            | 0         | 0             |
| 6                    | 314,14                             | 314,12 | 84             | 182,34         | 9               | 49,29          | 6         | 62,69                          | 1          | 19,82         | 0             | 0,00                            | 28         | 69,8           | 12        | 192,7          | 1          | 51,57         | 0        | 0             | 6             | 117,67         | 14         | 108,69         | 6             | 58,75         | 0                   | 0            | 2          | 3,17         | 3         | 25,85         |
| 7                    | 314,12                             | 314,12 | 16             | 61,06          | 15              | 226,76         | 0         | 0,00                           | 1          | 26,30         | 0             | 0,00                            | 14         | 51,26          | 11        | 209,12         | 1          | 53,7          | 0        | 0             | 5             | 143,14         | 5          | 99,97          | 4             | 34,71         | 0                   | 0            | 1          | 2,88         | 4         | 33,41         |
| 8                    | 314,12                             | 314,12 | 84             | 255,65         | 1               | 11,98          | 2         | 46,49                          | 0          | 0,00          | 0             | 0,00                            | 67         | 140,2          | 2         | 115,64         | 0          | 0             | 0        | 0             | 8             | 225,38         | 6          | 74,75          | 2             | 13,98         | 0                   | 0            | 0          | 0            | 0         | 0             |
| 9                    | 314,12                             | 314,12 | 34             | 117,09         | 10              | 158,78         | 4         | 20,97                          | 1          | 17,28         | 0             | 0,00                            | 29         | 86,01          | 6         | 160,73         | 1          | 67,37         | 0        | 0             | 6             | 159,18         | 13         | 86,01          | 1             | 19,14         | 3                   | 49,79        | 0          | 0            | 0         | 0             |
| 10                   | 314,12                             | 314,12 | 18             | 130,92         | 8               | 183,20         | 0         | 0,00                           | 0          | 0,00          | 0             | 0,00                            | 10         | 39,26          | 3         | 77,57          | 1          | 97,02         | 1        | 100,24        | 5             | 226,27         | 2          | 78,73          | 2             | 9,13          | 0                   | 0            | 0          | 0            | 0         | 0             |
| 11                   | 314,12                             | 314,12 | 57             | 190,81         | 8               | 67,90          | 1         | 0,05                           | 4          | 55,37         | 0             | 0,00                            | 26         | 76,28          | 9         | 237,83         | 0          | 0             | 0        | 0             | 5             | 65,54          | 22         | 152,81         | 5             | 42,31         | 1                   | 12,10        | 0          | 0            | 3         | 41,34         |
| 12                   | 324,90                             | 314,12 | 186            | 323,93         | 1               | 0,10           | 1         | 0,61                           | 3          | 0,26          | 0             | 0,00                            | 110        | 217,23         | 8         | 100,47         | 0          | 0             | 0        | 0             | 2             | 256,71         | 9          | 38,40          | 1             | 0,37          | 1                   | 6,73         | 0          | 0            | 1         | 11,90         |
| 13                   | 314,12                             | 314,12 | 102            | 273,13         | 4               | 1,14           | 11        | 39,84                          | 0          | 0,00          | 0             | 0,00                            | 93         | 232,77         | 4         | 81,34          | 0          | 0             | 0        | 0             | 4             | 275,63         | 3          | 11,80          | 4             | 21,31         | 1                   | 4,01         | 0          | 0            | 3         | 1,37          |
| 14                   | 314,12                             | 314,12 | 0              | 0,00           | 3               | 197,71         | 1         | 116,41                         | 0          | 0,00          | 0             | 0,00                            | 1          | 2,88           | 0         | 0              | 2          | 194,8         | 1        | 116,4         | 2             | 12,38          | 25         | 294,23         | 1             | 4,10          | 0                   | 0            | 2          | 3,42         | 0         | 0             |
| 15                   | 314,12                             | 314,12 | 16             | 63,01          | 9               | 187,05         | 1         | 0,79                           | 2          | 63,28         | 0             | 0,00                            | 12         | 52,31          | 6         | 191,44         | 1          | 70,35         | 0        | 0             | 2             | 130,66         | 12         | 105,81         | 4             | 70,06         | 1                   | 7,58         | 0          | 0            | 0         | 0             |
| <b>Total General</b> |                                    |        | <b>848</b>     | <b>2172,88</b> | <b>110</b>      | <b>1569,15</b> | <b>58</b> | <b>539,58</b>                  | <b>18</b>  | <b>266,91</b> | <b>9</b>      | <b>132,56</b>                   | <b>596</b> | <b>1527,01</b> | <b>97</b> | <b>2138,54</b> | <b>11</b>  | <b>770,91</b> | <b>2</b> | <b>216,64</b> | <b>56</b>     | <b>2651,66</b> | <b>155</b> | <b>1505,41</b> | <b>38</b>     | <b>320,59</b> | <b>9</b>            | <b>95,73</b> | <b>7</b>   | <b>18,63</b> | <b>15</b> | <b>145,77</b> |



# RELACIÓN A ESCALA DE PAISAJE ENTRE AGROBIODIVERSIDAD, ESCALA PREDIAL Y GRUPO CULTURAL



# RELACIÓN A ESCALA DE PAISAJE ENTRE AGROBIODIVERSIDAD, DIVERSIDAD CULTURAL Y DIVERSIDAD DE PAISAJE

