**Unravelling the physical, technological, and economic factors driving the intensification trajectories of livestock systems**

J. P. Domingues, J. Ryschawy, T. Bonaudo, B. Gabrielle and M. Tichit

Supplementary Table S1 *Trends of change in the French departments per type of trajectory*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Year | T1 (n = 16) | T2 (n = 30) | T3 (n = 32) | T4 (n = 10) |
| Livestock Units (LU) | 1938 | 366 760a | 182 881b | 175 961b | 93 093c |
|  | 1988 | 863 379a | 207 605b | 253 319b | 80 304b |
|  | 2010 | 810 093a | 176 085b | 232 977b | 66 909b |
| Herbivore LU | 1938 | 308 890a | 153 472b | 137 716b | 67 048c |
|  | 1988 | 603 153a | 178 256b | 222 857b | 37 363c |
|  | 2010 | 466 198a | 144 221b | 208 115b | 34 104c |
| Monogastric LU | 1938 | 57 870a | 29 409b | 38 244b | 26 045b |
|  | 1988 | 260 226a | 29 349b | 30 462b | 42 941b |
|  | 2010 | 343 894a | 31 864b | 24 862b | 32 806b |
| Herbivore Stocking Rate | 1938 | 0.64a | 0.37c | 0.48b | 0.30c |
|  | 1988 | 1.34a | 0.46c | 0.89b | 0.18d |
|  | 2010 | 1.13a | 0.39c | 0.85b | 0.21c |
| Monogastric Stocking Rate | 1938 | 0.12a | 0.07b | 0.13a | 0.12a |
|  | 1988 | 0.59a | 0.07b | 0.13b | 0.21b |
|  | 2010 | 0.84a | 0.08b | 0.10b | 0.16b |
| Herb meat production:MFA | 1938 | 81a | 56bc | 61b | 39c |
|  | 1988 | 184a | 107b | 70c | 33c |
|  | 2010 | 209a | 131b | 88c | 32d |
| Milk production:MFA | 1938 | 990a | 686a | 754a | 616a |
|  | 1988 | 3 004a | 1 486b | 1 284bc | 487c |
|  | 2010 | 3 773a | 1 839 b | 1 353bc | 444c |
| Utilised Agricult. Area (UAA) | 1938 | 484 681a | 411 877a | 280 709b | 226 475b |
|  | 1988 | 449 784a | 392 552a | 238 250b | 187 343b |
|  | 2010 | 413 104a | 376 498a | 226 967b | 162 780b |
| Main Fodder Area (MFA) | 1938 | 315 557a | 228 991b | 186 533c | 91 785d |
|  | 1988 | 287 448a | 128 390bc | 177 513b | 49 997c |
|  | 2010 | 226 262a | 101 621b | 166 778a | 47 583b |
| UAA:Department Area | 1938 | 0.76a | 0.65b | 0.49c | 0.36d |
|  | 1988 | 0.71a | 0.61b | 0.41c | 0.30d |
|  | 2010 | 0.65a | 0.59a | 0.39b | 0.26c |
| MFA:UAA | 1938 | 0.65a | 0.56b | 0.68a | 0.40c |
|  | 1988 | 0.64a | 0.33b | 0.73a | 0.26b |
|  | 2010 | 0.55b | 0.27c | 0.73a | 0.30c |
| Number of farms | 1938 | 34 841a | 17 551b | 23 659b | 22 559b |
|  | 1988 | 18 304a | 9 345c | 9 434c | 13 654b |
|  | 2010 | 7 440a | 4 975b | 4 780b | 6 591ab |
| Annual Working Unit (AWU) | 1938 | 59 288a | 35 150b | 38 450b | 40 350b |
|  | 1988 | 26 531a | 13 927c | 12 564c | 19 472b |
|  | 2010 | 12 219a | 7 533b | 6 516 b | 11 734a |
| Average Farm Size | 1938 | 15b | 27a | 13b | 10b |
|  | 1988 | 26bc | 46a | 26b | 14c |
|  | 2010 | 57b | 85a | 50b | 25c |
| Labour productivity | 1938 | 8.8b | 12.4a | 7.7bc | 5.6c |
|  | 1988 | 17.7bc | 30.8a | 19.8b | 9.9c |
|  | 2010 | 35.6bc | 55.6a | 36.9b | 15.1c |
| Dependence ratio | 1938 | 0.13b | 0.16b | 0.14b | 0.24a |
|  | 1988 | 0.26a | 0.26a | 0.23a | 0.30a |
|  | 2010 | 0.35a | 0.29ab | 0.23b | 0.26ab |
| Tractors density | 1938 | 0.0006b | 0.0014b | 0.0007b | 0.0031a |
|  | 1988 | 0.0056a | 0.0042b | 0.0056a | 0.0068a |
|  | 2010 | 0.0057a | 0.0039b | 0.0058a | 0.0069a |

See Table 1 in the main manuscript text for variables’ units. Means followed by same letter within a row do not significantly differ by Tukey’s test (P<0.05). Indicators are expressed as the mean of all departments belonging to each type of trajectory.