| Indicator | 1st cycle | 2nd cycle |
|-----------|-----------|-----------|
|           | 2014-2015 | 2015-2016 | 2016-2017 | 2017-2018 | 2018-2019 | 2019-2020 |
|           | Winter    | Summer    | Winter    | Summer    | Winter    | Summer    |
| Total cost| 692       | 634       | 704       | 639       | 607       | 625       |
| Inputs    | 427       | 292       | 413       | 282       | 395       | 326       |
| Seeds     | 125       | 76        | 130       | 51        | 104       | 109       |
| Fertilizers| 169      | 79        | 170       | 84        | 158       | 75        |
| Pesticides| 133       | 137       | 112       | 147       | 133       | 142       |
| Agric. operations | 179 | 249 | 201 | 257 | 139 | 193 |
| Other costs| 86        | 93        | 90        | 100       | 73        | 106       |

Supplementary Table S3. Production cost of the grain production systems for the 2014–2015 to 2019-2020 crop years (in US$ ha\(^{-1}\)). WO: white oat, BO: black oat, BR: brachiaria, CL: canola, CM: crambe, RY: rye, SF: safflower, B: bean, C: corn, R: forage radish, S: soybean, W: wheat, BW: buckwheat, TR: triticale.