**Supplementary information**

**Table S1:** Protein content and related quality measures of quality of barley received by Tasmanian (Australia) Agricultural Producers (TAP) from growers between 2016- 2020.1 The data is presented at the mean ± standard deviation.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Growing Season** | **Number** | **Grain Protein (%)** | **Test weight**  **(g)** | **Screenings (% under  2.2 mm)** | **Moisture (%)** |
| **Season 2016/2017** | |  |  |  |  |
| January 2017 | n = 280 | 10.5 ± 5.0 | 68.1 ± 2.1 | 2.6 ± 1.6 | 11.3 ± 0.6 |
| February 2017 | n = 37 | 10.5 ± 1.1 | 66.9 ± 2.3 | 3.5 ± 4.0 | 11.8 ± 0.5 |
| Mar 2017 | n = 15 | 12.2 ± 1.4 | 67.8 ± 1.3 | 2.2 ± 0.7 | 12.0 ± 0.7 |
| April 2017 | n = 9 | 11.4 ± 1.2 | 66.2 ± 0.8 | 2.1 ± 0.3 | 13.3 ± 0.4 |
| **Season 2017/2018** | |  |  |  |  |
| December 2017 | n = 26 | 13.4 ± 1.4 | 65.5 ± 2.6 | 6.7 ± 3.0 | 11.7 ± 0.8 |
| January 2018 | n = 100 | 12.9 ± 5.4 | 66.5 ± 2.9 | 4.6 ± 3.2 | 10.9 ± 0.7 |
| February 2018 | n = 15 | 12.2 ± 2.4 | 63.7 ± 2.8 | 4.0 ± 2.5 | 11.6 ± 0.9 |
| March 2018 | n = 5 | 13.2 ± 0.5 | 62.6 ± 1.6 | 5.3 ± 0.3 | 12.0 ± 0.6 |
| **Season 2018/2019** | |  |  |  |  |
| December 2018 | n = 27 | 10.9 ± 0.9 | 66.7 ± 1.5 | 3.5 ± 2.0 | 11.2 ± 0.6 |
| January 2019 | n = 300 | 10.9 ± 1.4 | 67.5 ± 2.0 | 3.2 ± 2.3 | 10.8 ± 0.6 |
| February 2019 | n = 63 | 11.9 ± 1.9 | 66.5 ± 2.4 | 4.2 ± 1.5 | 11.5 ± 0.7 |
| March 2019 | n = 10 | 12.0 ± 1.3 | 65.7 ± 2.2 | 3.9 ± 1.6 | 12.0 ± 0.4 |
| **Season 2019/2020** | |  |  |  |  |
| December 2019 | n = 40 | 10.8 ± 1.3 | 67.7 ± 2.6 | 7.1 ± 2.7 | 10.9 ± 0.7 |
| January 2020 | n = 58 | 11.7 ± 1.7 | 67.0 ± 3.3 | 7.7 ± 4.4 | 11.3 ± 0.7 |
| February 2020 | n = 65 | 11.3 ± 1.9 | 64.1 ± 2.5 | 9.3 ± 9.3 | 11.8 ± 0.7 |

1 The authors are indebted to the late Michael Chilvers of TAP (Tasmania, Australia) for this data.