Barley grains = B Grouping: 1 (least visually charred), 2, 3, 4, 5 (most visually charred)

Spelt grains = S About 15-20 grains per group

Provided below are the 12 samples (6 barley, 6 spelt) chosen to be analysed. These were chosen based on PCA results from FTIR and NIR analysis, not the initial morphological characterizations.

FTIR PCA Results:

A screenshot of a video game

Description automatically generated

NIR PCA Results:

A screenshot of a game

Description automatically generated

**Spelt**

Least Charred:

|  |  |  |
| --- | --- | --- |
| Sample ID | 1S.10 | 1S.8 |
| Front/Back | IS.10 ±IS.IO | iS.Û ïs.8. |
| Charring SUM | 10 | 13 |

Middle Charred:

|  |  |  |
| --- | --- | --- |
| Sample ID | 3S.4 | 4S.17 |
| Front/Back | 3S.4 YSE | 4517 |
| Charring SUM | 18 | 26 |

Most Charred:

|  |  |  |
| --- | --- | --- |
| Sample ID | 4S.1 | 4S.16 |
| Front/Back | 4s.1 4S.1 | 4s.16 4s.16 |
| Charring SUM | 24 | 24 |

**Barley**

Least Charred:

|  |  |  |
| --- | --- | --- |
| Sample ID | 2B.20 | 2B.5 |
| Front/Back | i2B.20 |  |
| Charring SUM | 19 | 17 |

Middle Charred:

|  |  |  |
| --- | --- | --- |
| Sample ID | 1B.6 | 1B.19 |
| Front/Back | •.들다츠鬱• | 죌耄쬧쬐출:晷x• |
| Charring SUM | 11 | 8 |

Most Charred:

|  |  |  |
| --- | --- | --- |
| Sample ID | 5B.1 | 5B.4 |
| Front/Back | evas |  |
| Charring SUM | 24 | 26 |