

## WINTER BARLEY

AFP 2/2586

# ACUTE

### CHARACTERS IN DETAIL

#### Ear

|                |                |
|----------------|----------------|
| Number of rows | two            |
| Density        | medium         |
| Length         | medium to long |
| Shape          | tapering       |

#### Awn

|                        |                           |
|------------------------|---------------------------|
| Length compared to ear | medium (+/- equal to ear) |
|------------------------|---------------------------|

#### Rachis

|                            |                  |
|----------------------------|------------------|
| Length of first segment    | medium to long   |
| Curvature of first segment | medium to strong |

#### Spikelet

|  |           |
|--|-----------|
| Sterile spikelet - attitude                    | divergent |
| Sterile spikelet - development                 | full      |
| Median spikelet - length of glume+awn of grain | equal     |

#### Grain

|                                     |                          |
|-------------------------------------|--------------------------|
| Kernel - colour of aleurone layer   | whitish ("white")        |
| Husk - presence after harvest       | present                  |
| Spiculation of inner lateral nerves | weak (1-2 per nerve)     |
| Rachilla hair type                  | long                     |
| Ventral furrow - presence of hairs  | absent                   |
| Disposition of lodicules            | clasping ("collar" type) |

#### Anthocyanin colouration

|                               |        |
|-------------------------------|--------|
| Flag leaf - auricles          | weak   |
| Lemma nerves - at early dough | medium |
| Awn tips                      | weak   |

#### Plant growth characters

|   |                                |
|---|--------------------------------|
| Plant - growth habit                    | intermediate to semi-prostrate |
| Plant - length                          | medium                         |
| Lower leaf - hairiness of sheaths       | present                        |
| Time of ear emergence                   | medium                         |
| Flag leaf - glaucosity of sheath        | strong                         |
| Ear - glaucosity                        | medium to strong               |
| Ear - attitude 21 days after ear emerg. | semi-erect                     |

## WINTER BARLEY

AFP 2/2447

# ARCHER

### CHARACTERS IN DETAIL

#### Ear

|                |               |
|----------------|---------------|
| Number of rows | two           |
| Density        | lax to medium |
| Length         | medium        |
| Shape          | tapering      |

#### Awn

|                        |                           |
|------------------------|---------------------------|
| Length compared to ear | medium (+/- equal to ear) |
|------------------------|---------------------------|

#### Rachis

|                            |        |
|----------------------------|--------|
| Length of first segment    | long   |
| Curvature of first segment | medium |

#### Spikelet

|  |                              |
|--|------------------------------|
| Sterile spikelet - attitude                    | parallel to weakly divergent |
| Sterile spikelet - development                 | full                         |
| Median spikelet - length of glume+awn of grain | equal                        |

#### Grain

|                                     |                          |
|-------------------------------------|--------------------------|
| Kernel - colour of aleurone layer   | weakly coloured          |
| Husk - presence after harvest       | present                  |
| Spiculation of inner lateral nerves | weak (1-2 per nerve)     |
| Rachilla hair type                  | long                     |
| Ventral furrow - presence of hairs  | absent                   |
| Disposition of lodicules            | clasping ("collar" type) |

#### Anthocyanin colouration

|                               |                     |
|-------------------------------|---------------------|
| Flag leaf - auricles          | absent to very weak |
| Lemma nerves - at early dough | absent or very weak |
| Awn tips                      | absent to very weak |

#### Plant growth characters

|   |                             |
|---|-----------------------------|
| Plant - growth habit                    | semi-prostrate to prostrate |
| Plant - length                          | medium                      |
| Lower leaf - hairiness of sheaths       | present                     |
| Time of ear emergence                   | medium to late              |
| Flag leaf - glaucosity of sheath        | medium to strong            |
| Ear - glaucosity                        | medium                      |
| Ear - attitude 21 days after ear emerg. | semi-erect                  |

## WINTER BARLEY

AFP 2/2581

# CADILLAC

### CHARACTERS IN DETAIL

#### Ear

|                |          |
|----------------|----------|
| Number of rows | two      |
| Density        | lax      |
| Length         | medium   |
| Shape          | tapering |

#### Awn

|                        |                           |
|------------------------|---------------------------|
| Length compared to ear | medium (+/- equal to ear) |
|------------------------|---------------------------|

#### Rachis

|                            |                  |
|----------------------------|------------------|
| Length of first segment    | medium to long   |
| Curvature of first segment | medium to strong |

#### Spikelet

|  |          |
|--|----------|
| Sterile spikelet - attitude                    | parallel |
| Sterile spikelet - development                 | full     |
| Median spikelet - length of glume+awn of grain | equal    |

#### Grain

|                                     |                            |
|-------------------------------------|----------------------------|
| Kernel - colour of aleurone layer   | strongly coloured ("blue") |
| Husk - presence after harvest       | present                    |
| Spiculation of inner lateral nerves | weak (1-2 per nerve)       |
| Rachilla hair type                  | long                       |
| Ventral furrow - presence of hairs  | present                    |
| Disposition of lodicules            | clasping ("collar" type)   |

#### Anthocyanin colouration

|                               |                     |
|-------------------------------|---------------------|
| Flag leaf - auricles          | absent to very weak |
| Lemma nerves - at early dough | absent or very weak |
| Awn tips                      | very weak to weak   |

#### Plant growth characters

|   |                |
|---|----------------|
| Plant - growth habit                    | semi-prostrate |
| Plant - length                          | medium to long |
| Lower leaf - hairiness of sheaths       | present        |
| Time of ear emergence                   | medium         |
| Flag leaf - glaucosity of sheath        | medium         |
| Ear - glaucosity                        | weak to medium |
| Ear - attitude 21 days after ear emerg. | semi-erect     |

## WINTER BARLEY

AFP 2/2448

# CALIFORNIA

### CHARACTERS IN DETAIL

#### Ear

|                |                |
|----------------|----------------|
| Number of rows | two            |
| Density        | medium         |
| Length         | medium to long |
| Shape          | tapering       |

#### Awn

|                        |                           |
|------------------------|---------------------------|
| Length compared to ear | medium (+/- equal to ear) |
|------------------------|---------------------------|

#### Rachis

|                            |        |
|----------------------------|--------|
| Length of first segment    | long   |
| Curvature of first segment | medium |

#### Spikelet

|  |                                |
|--|--------------------------------|
| Sterile spikelet - attitude                    | n/a                            |
| Sterile spikelet - development                 | none or rudimentary(deficiens) |
| Median spikelet - length of glume+awn of grain | equal                          |

#### Grain

|                                     |                                |
|-------------------------------------|--------------------------------|
| Kernel - colour of aleurone layer   | whitish ("white")              |
| Husk - presence after harvest       | present                        |
| Spiculation of inner lateral nerves | absent/v. weak (0-2 per nerve) |
| Rachilla hair type                  | long                           |
| Ventral furrow - presence of hairs  | absent                         |
| Disposition of lodicules            | clasping ("collar" type)       |

#### Anthocyanin colouration

|                               |                     |
|-------------------------------|---------------------|
| Flag leaf - auricles          | absent to very weak |
| Lemma nerves - at early dough | absent or very weak |
| Awn tips                      | absent to very weak |

#### Plant growth characters

|   |                                |
|---|--------------------------------|
| Plant - growth habit                    | intermediate to semi-prostrate |
| Plant - length                          | short to medium                |
| Lower leaf - hairiness of sheaths       | absent                         |
| Time of ear emergence                   | medium                         |
| Flag leaf - glaucosity of sheath        | medium to strong               |
| Ear - glaucosity                        | medium                         |
| Ear - attitude 21 days after ear emerg. | semi-erect                     |

## WINTER BARLEY

AFP 2/1825

# CAMION

### CHARACTERS IN DETAIL

#### Ear

|                |               |
|----------------|---------------|
| Number of rows | two           |
| Density        | lax to medium |
| Length         | long          |
| Shape          | tapering      |

#### Awn

|                        |                     |
|------------------------|---------------------|
| Length compared to ear | +/- equal to longer |
|------------------------|---------------------|

#### Rachis

|                            |                  |
|----------------------------|------------------|
| Length of first segment    | medium           |
| Curvature of first segment | medium to strong |

#### Spikelet

|  |           |
|--|-----------|
| Sterile spikelet - attitude                    | divergent |
| Sterile spikelet - development                 |           |
| Median spikelet - length of glume+awn of grain | equal     |

#### Grain

|                                     |                          |
|-------------------------------------|--------------------------|
| Kernel - colour of aleurone layer   | whitish ("white")        |
| Husk - presence after harvest       | present                  |
| Spiculation of inner lateral nerves | weak to medium           |
| Rachilla hair type                  | long                     |
| Ventral furrow - presence of hairs  | present                  |
| Disposition of lodicules            | clasping ("collar" type) |

#### Anthocyanin colouration

|                               |      |
|-------------------------------|------|
| Flag leaf - auricles          | weak |
| Lemma nerves - at early dough | weak |
| Awn tips                      | weak |

#### Plant growth characters

|   |                                |
|---|--------------------------------|
| Plant - growth habit                    | intermediate to semi-prostrate |
| Plant - length                          | medium                         |
| Lower leaf - hairiness of sheaths       | present                        |
| Time of ear emergence                   | very early to early            |
| Flag leaf - glaucosity of sheath        | medium to strong               |
| Ear - glaucosity                        | weak                           |
| Ear - attitude 21 days after ear emerg. | semi-erect to horizontal       |

## WINTER BARLEY

# CAMPANILE

### CHARACTERS IN DETAIL

#### Ear

|                |                 |
|----------------|-----------------|
| Number of rows | two             |
| Density        | medium to dense |
| Length         | medium to long  |
| Shape          | tapering        |

#### Awn

|                        |                          |
|------------------------|--------------------------|
| Length compared to ear | short (shorter than ear) |
|------------------------|--------------------------|

#### Rachis

|                            |                  |
|----------------------------|------------------|
| Length of first segment    | medium to long   |
| Curvature of first segment | medium to strong |

#### Spikelet

|  |                                |
|--|--------------------------------|
| Sterile spikelet - attitude                    | n/a                            |
| Sterile spikelet - development                 | none or rudimentary(deficiens) |
| Median spikelet - length of glume+awn cf grain | equal                          |

#### Grain

|                                     |                          |
|-------------------------------------|--------------------------|
| Kernel - colour of aleurone layer   | whitish ("white")        |
| Husk - presence after harvest       | present                  |
| Spiculation of inner lateral nerves | medium to strong         |
| Rachilla hair type                  | short                    |
| Ventral furrow - presence of hairs  | present                  |
| Disposition of lodicules            | clasping ("collar" type) |

#### Anthocyanin colouration

|                               |                     |
|-------------------------------|---------------------|
| Flag leaf - auricles          | absent to very weak |
| Lemma nerves - at early dough | absent or very weak |
| Awn tips                      | absent to very weak |

#### Plant growth characters

|   |                             |
|---|-----------------------------|
| Plant - growth habit                    | intermediate                |
| Plant - length                          | short to medium             |
| Lower leaf - hairiness of sheaths       | present                     |
| Time of ear emergence                   | medium to late              |
| Flag leaf - glaucosity of sheath        | medium to strong            |
| Ear - glaucosity                        | weak to medium              |
| Ear - attitude 21 days after ear emerg. | horizontal to semi-recurved |

## WINTER BARLEY

AFP 2/1606

# CARAT

### CHARACTERS IN DETAIL

#### Ear

|                |               |
|----------------|---------------|
| Number of rows | two           |
| Density        | lax to medium |
| Length         | medium        |
| Shape          | tapering      |

#### Awn

|                        |                        |
|------------------------|------------------------|
| Length compared to ear | long (longer than ear) |
|------------------------|------------------------|

#### Rachis

|                            |                 |
|----------------------------|-----------------|
| Length of first segment    | short to medium |
| Curvature of first segment | medium          |

#### Spikelet

|  |           |
|--|-----------|
| Sterile spikelet - attitude                    | divergent |
| Sterile spikelet - development                 |           |
| Median spikelet - length of glume+awn of grain | equal     |

#### Grain

|                                     |                                |
|-------------------------------------|--------------------------------|
| Kernel - colour of aleurone layer   | whitish ("white")              |
| Husk - presence after harvest       | present                        |
| Spiculation of inner lateral nerves | absent/v. weak (0-2 per nerve) |
| Rachilla hair type                  | long                           |
| Ventral furrow - presence of hairs  | absent                         |
| Disposition of lodicules            | clasping ("collar" type)       |

#### Anthocyanin colouration

|                               |                     |
|-------------------------------|---------------------|
| Flag leaf - auricles          |                     |
| Lemma nerves - at early dough | absent or very weak |
| Awn tips                      |                     |

#### Plant growth characters

|   |                                |
|---|--------------------------------|
| Plant - growth habit                    | intermediate to semi-prostrate |
| Plant - length                          | short to medium                |
| Lower leaf - hairiness of sheaths       | present                        |
| Time of ear emergence                   | medium                         |
| Flag leaf - glaucosity of sheath        | strong to very strong          |
| Ear - glaucosity                        | weak to medium                 |
| Ear - attitude 21 days after ear emerg. | horizontal to semi-recurved    |

## WINTER BARLEY

AFP 2/2058

# CASSATA

### CHARACTERS IN DETAIL

#### Ear

|                |                 |
|----------------|-----------------|
| Number of rows | two             |
| Density        | medium to dense |
| Length         | medium          |
| Shape          | tapering        |

#### Awn

|                        |                     |
|------------------------|---------------------|
| Length compared to ear | +/- equal to longer |
|------------------------|---------------------|

#### Rachis

|                            |                 |
|----------------------------|-----------------|
| Length of first segment    | short to medium |
| Curvature of first segment | weak to medium  |

#### Spikelet

|  |          |
|--|----------|
| Sterile spikelet - attitude                    | parallel |
| Sterile spikelet - development                 | full     |
| Median spikelet - length of glume+awn of grain | equal    |

#### Grain

|                                     |                             |
|-------------------------------------|-----------------------------|
| Kernel - colour of aleurone layer   | whitish ("white")           |
| Husk - presence after harvest       | absent (grains thresh free) |
| Spiculation of inner lateral nerves | strong (5-10 per nerve)     |
| Rachilla hair type                  | long                        |
| Ventral furrow - presence of hairs  | absent                      |
| Disposition of lodicules            | clasping ("collar" type)    |

#### Anthocyanin colouration

|                               |                  |
|-------------------------------|------------------|
| Flag leaf - auricles          | weak to medium   |
| Lemma nerves - at early dough | weak             |
| Awn tips                      | medium to strong |

#### Plant growth characters

|   |                                |
|---|--------------------------------|
| Plant - growth habit                    | intermediate to semi-prostrate |
| Plant - length                          | short to medium                |
| Lower leaf - hairiness of sheaths       | present                        |
| Time of ear emergence                   | medium to late                 |
| Flag leaf - glaucosity of sheath        | medium                         |
| Ear - glaucosity                        | medium                         |
| Ear - attitude 21 days after ear emerg. | erect to semi-erect            |



## WINTER BARLEY

AFP 2/2582

# CAVALIER

### CHARACTERS IN DETAIL

#### Ear

|                |          |
|----------------|----------|
| Number of rows | two      |
| Density        | lax      |
| Length         | medium   |
| Shape          | tapering |

#### Awn

|                        |                           |
|------------------------|---------------------------|
| Length compared to ear | medium (+/- equal to ear) |
|------------------------|---------------------------|

#### Rachis

|                            |        |
|----------------------------|--------|
| Length of first segment    | medium |
| Curvature of first segment | medium |

#### Spikelet

|  |          |
|--|----------|
| Sterile spikelet - attitude                    | parallel |
| Sterile spikelet - development                 | full     |
| Median spikelet - length of glume+awn of grain | equal    |

#### Grain

|                                     |                                |
|-------------------------------------|--------------------------------|
| Kernel - colour of aleurone layer   | strongly coloured ("blue")     |
| Husk - presence after harvest       | present                        |
| Spiculation of inner lateral nerves | absent/v. weak (0-2 per nerve) |
| Rachilla hair type                  | long                           |
| Ventral furrow - presence of hairs  | present                        |
| Disposition of lodicules            | clasping ("collar" type)       |

#### Anthocyanin colouration

|                               |                       |
|-------------------------------|-----------------------|
| Flag leaf - auricles          | medium to strong      |
| Lemma nerves - at early dough | strong to very strong |
| Awn tips                      | strong to very strong |

#### Plant growth characters

|   |                 |
|---|-----------------|
| Plant - growth habit                    | semi-prostrate  |
| Plant - length                          | medium          |
| Lower leaf - hairiness of sheaths       | present         |
| Time of ear emergence                   | early to medium |
| Flag leaf - glaucosity of sheath        | medium          |
| Ear - glaucosity                        | weak to medium  |
| Ear - attitude 21 days after ear emerg. | semi-erect      |

## WINTER BARLEY

AFP 2/1983

# CYPRESS

### CHARACTERS IN DETAIL

#### Ear

|                |          |
|----------------|----------|
| Number of rows | two      |
| Density        | medium   |
| Length         | medium   |
| Shape          | parallel |

#### Awn

|                        |                           |
|------------------------|---------------------------|
| Length compared to ear | medium (+/- equal to ear) |
|------------------------|---------------------------|

#### Rachis

|                            |        |
|----------------------------|--------|
| Length of first segment    | medium |
| Curvature of first segment | medium |

#### Spikelet

|  |                                |
|--|--------------------------------|
| Sterile spikelet - attitude                    | n/a                            |
| Sterile spikelet - development                 | none or rudimentary(deficiens) |
| Median spikelet - length of glume+awn of grain | equal                          |

#### Grain

|                                     |                          |
|-------------------------------------|--------------------------|
| Kernel - colour of aleurone layer   | whitish ("white")        |
| Husk - presence after harvest       | present                  |
| Spiculation of inner lateral nerves | weak (1-2 per nerve)     |
| Rachilla hair type                  | long                     |
| Ventral furrow - presence of hairs  | present                  |
| Disposition of lodicules            | clasping ("collar" type) |

#### Anthocyanin colouration

|                               |        |
|-------------------------------|--------|
| Flag leaf - auricles          | medium |
| Lemma nerves - at early dough | strong |
| Awn tips                      | strong |

#### Plant growth characters

|   |                             |
|---|-----------------------------|
| Plant - growth habit                    | semi-prostrate to prostrate |
| Plant - length                          | medium                      |
| Lower leaf - hairiness of sheaths       | present                     |
| Time of ear emergence                   | medium to late              |
| Flag leaf - glaucosity of sheath        | medium                      |
| Ear - glaucosity                        | weak to medium              |
| Ear - attitude 21 days after ear emerg. | semi-recurved               |

## WINTER BARLEY

AFP 2/2383

# ESCADRE

### CHARACTERS IN DETAIL

#### Ear

|                |          |
|----------------|----------|
| Number of rows | six      |
| Density        | dense    |
| Length         | short    |
| Shape          | parallel |

#### Awn

|                        |                     |
|------------------------|---------------------|
| Length compared to ear | +/- equal to longer |
|------------------------|---------------------|

#### Rachis

|                            |                 |
|----------------------------|-----------------|
| Length of first segment    | short to medium |
| Curvature of first segment | very weak       |

#### Spikelet

|  |        |
|--|--------|
| Sterile spikelet - attitude                    | n/a    |
| Sterile spikelet - development                 | n/a    |
| Median spikelet - length of glume+awn of grain | longer |

#### Grain

|                                     |                          |
|-------------------------------------|--------------------------|
| Kernel - colour of aleurone layer   | whitish ("white")        |
| Husk - presence after harvest       | present                  |
| Spiculation of inner lateral nerves | strong to v. strong      |
| Rachilla hair type                  | long                     |
| Ventral furrow - presence of hairs  | present                  |
| Disposition of lodicules            | clasping ("collar" type) |

#### Anthocyanin colouration

|                               |                |
|-------------------------------|----------------|
| Flag leaf - auricles          | weak           |
| Lemma nerves - at early dough | weak to medium |
| Awn tips                      | weak to medium |

#### Plant growth characters

|   |                          |
|---|--------------------------|
| Plant - growth habit                    | intermediate             |
| Plant - length                          | long                     |
| Lower leaf - hairiness of sheaths       | present                  |
| Time of ear emergence                   | early                    |
| Flag leaf - glaucosity of sheath        | medium to strong         |
| Ear - glaucosity                        | medium                   |
| Ear - attitude 21 days after ear emerg. | semi-erect to horizontal |

## WINTER BARLEY

AFP 2/2596

# FENTARA

### CHARACTERS IN DETAIL

#### Ear

|                |                |
|----------------|----------------|
| Number of rows | two            |
| Density        | medium         |
| Length         | medium to long |
| Shape          | tapering       |

#### Awn

|                        |                           |
|------------------------|---------------------------|
| Length compared to ear | medium (+/- equal to ear) |
|------------------------|---------------------------|

#### Rachis

|                            |                |
|----------------------------|----------------|
| Length of first segment    | medium to long |
| Curvature of first segment | weak           |

#### Spikelet

|  |           |
|--|-----------|
| Sterile spikelet - attitude                    | divergent |
| Sterile spikelet - development                 | full      |
| Median spikelet - length of glume+awn of grain | equal     |

#### Grain

|                                     |                          |
|-------------------------------------|--------------------------|
| Kernel - colour of aleurone layer   | whitish ("white")        |
| Husk - presence after harvest       | present                  |
| Spiculation of inner lateral nerves | weak (1-2 per nerve)     |
| Rachilla hair type                  | long                     |
| Ventral furrow - presence of hairs  | present                  |
| Disposition of lodicules            | clasping ("collar" type) |

#### Anthocyanin colouration

|                               |                     |
|-------------------------------|---------------------|
| Flag leaf - auricles          | absent to very weak |
| Lemma nerves - at early dough | absent or very weak |
| Awn tips                      | absent to very weak |

#### Plant growth characters

|   |                     |
|---|---------------------|
| Plant - growth habit                    | semi-prostrate      |
| Plant - length                          | medium to long      |
| Lower leaf - hairiness of sheaths       | present             |
| Time of ear emergence                   | medium              |
| Flag leaf - glaucosity of sheath        | medium              |
| Ear - glaucosity                        | medium              |
| Ear - attitude 21 days after ear emerg. | erect to semi-erect |

## WINTER BARLEY

AFP 2/1910

# FLAGON

### CHARACTERS IN DETAIL

#### Ear

|                |               |
|----------------|---------------|
| Number of rows | two           |
| Density        | lax to medium |
| Length         | long          |
| Shape          | parallel      |

#### Awn

|                        |                           |
|------------------------|---------------------------|
| Length compared to ear | medium (+/- equal to ear) |
|------------------------|---------------------------|

#### Rachis

|                            |        |
|----------------------------|--------|
| Length of first segment    | medium |
| Curvature of first segment | medium |

#### Spikelet

|  |           |
|--|-----------|
| Sterile spikelet - attitude                    | divergent |
| Sterile spikelet - development                 |           |
| Median spikelet - length of glume+awn of grain | equal     |

#### Grain

|                                     |                          |
|-------------------------------------|--------------------------|
| Kernel - colour of aleurone layer   | whitish ("white")        |
| Husk - presence after harvest       | present                  |
| Spiculation of inner lateral nerves | weak (1-2 per nerve)     |
| Rachilla hair type                  | long                     |
| Ventral furrow - presence of hairs  | absent                   |
| Disposition of lodicules            | clasping ("collar" type) |

#### Anthocyanin colouration

|                               |                     |
|-------------------------------|---------------------|
| Flag leaf - auricles          |                     |
| Lemma nerves - at early dough | absent or very weak |
| Awn tips                      | absent to very weak |

#### Plant growth characters

|   |                                |
|---|--------------------------------|
| Plant - growth habit                    | intermediate to semi-prostrate |
| Plant - length                          | medium to long                 |
| Lower leaf - hairiness of sheaths       | present                        |
| Time of ear emergence                   | medium                         |
| Flag leaf - glaucosity of sheath        | medium                         |
| Ear - glaucosity                        | weak to medium                 |
| Ear - attitude 21 days after ear emerg. | horizontal to semi-recurved    |

## WINTER BARLEY

AFP 2/2664

# FLETCHER

### CHARACTERS IN DETAIL

#### Ear

|                |                 |
|----------------|-----------------|
| Number of rows | more than two   |
| Density        | dense           |
| Length         | short to medium |
| Shape          | parallel        |

#### Awn

|                        |                |
|------------------------|----------------|
| Length compared to ear | medium to long |
|------------------------|----------------|

#### Rachis

|                            |                 |
|----------------------------|-----------------|
| Length of first segment    | short to medium |
| Curvature of first segment | weak            |

#### Spikelet

|  |       |
|--|-------|
| Sterile spikelet - attitude                    | n/a   |
| Sterile spikelet - development                 | n/a   |
| Median spikelet - length of glume+awn cf grain | equal |

#### Grain

|                                     |                     |
|-------------------------------------|---------------------|
| Kernel - colour of aleurone layer   | whitish             |
| Husk - presence after harvest       | present             |
| Spiculation of inner lateral nerves | strong to v. strong |
| Rachilla hair type                  | long                |
| Ventral furrow - presence of hairs  | present             |
| Disposition of lodicules            | clasping            |

#### Anthocyanin colouration

|                               |                |
|-------------------------------|----------------|
| Flag leaf - auricles          | weak to medium |
| Lemma nerves - at early dough | weak           |
| Awn tips                      | weak to medium |

#### Plant growth characters

|   |                                |
|---|--------------------------------|
| Plant - growth habit                    | intermediate to semi-prostrate |
| Plant - length                          | long                           |
| Lower leaf - hairiness of sheaths       | present                        |
| Time of ear emergence                   | medium                         |
| Flag leaf - glaucosity of sheath        | strong                         |
| Ear - glaucosity                        | medium to strong               |
| Ear - attitude 21 days after ear emerg. | semi-erect                     |

## WINTER BARLEY

AFP 2/2392

# FLORENTINE

### CHARACTERS IN DETAIL

#### Ear

|                |                |
|----------------|----------------|
| Number of rows | two            |
| Density        | lax            |
| Length         | medium to long |
| Shape          | tapering       |

#### Awn

|                        |                           |
|------------------------|---------------------------|
| Length compared to ear | medium (+/- equal to ear) |
|------------------------|---------------------------|

#### Rachis

|                            |                  |
|----------------------------|------------------|
| Length of first segment    | medium           |
| Curvature of first segment | medium to strong |

#### Spikelet

|  |                                |
|--|--------------------------------|
| Sterile spikelet - attitude                    | n/a                            |
| Sterile spikelet - development                 | none or rudimentary(deficiens) |
| Median spikelet - length of glume+awn of grain | equal                          |

#### Grain

|                                     |                                |
|-------------------------------------|--------------------------------|
| Kernel - colour of aleurone layer   | whitish ("white")              |
| Husk - presence after harvest       | present                        |
| Spiculation of inner lateral nerves | absent/v. weak (0-2 per nerve) |
| Rachilla hair type                  | long                           |
| Ventral furrow - presence of hairs  | absent                         |
| Disposition of lodicules            | clasping ("collar" type)       |

#### Anthocyanin colouration

|                               |        |
|-------------------------------|--------|
| Flag leaf - auricles          | medium |
| Lemma nerves - at early dough | medium |
| Awn tips                      | medium |

#### Plant growth characters

|   |                                |
|---|--------------------------------|
| Plant - growth habit                    | intermediate to semi-prostrate |
| Plant - length                          | short to medium                |
| Lower leaf - hairiness of sheaths       | present                        |
| Time of ear emergence                   | medium to late                 |
| Flag leaf - glaucosity of sheath        | medium                         |
| Ear - glaucosity                        | weak                           |
| Ear - attitude 21 days after ear emerg. | semi-erect                     |

## WINTER BARLEY

AFP 2/2530

# FM0471

### CHARACTERS IN DETAIL

#### Ear

|                |               |
|----------------|---------------|
| Number of rows | six           |
| Density        | lax to medium |
| Length         | short         |
| Shape          | parallel      |

#### Awn

|                        |                           |
|------------------------|---------------------------|
| Length compared to ear | medium (+/- equal to ear) |
|------------------------|---------------------------|

#### Rachis

|                            |                |
|----------------------------|----------------|
| Length of first segment    | medium         |
| Curvature of first segment | weak to medium |

#### Spikelet

|  |        |
|--|--------|
| Sterile spikelet - attitude                    | n/a    |
| Sterile spikelet - development                 | n/a    |
| Median spikelet - length of glume+awn of grain | longer |

#### Grain

|                                     |                          |
|-------------------------------------|--------------------------|
| Kernel - colour of aleurone layer   | whitish ("white")        |
| Husk - presence after harvest       | present                  |
| Spiculation of inner lateral nerves | strong (5-10 per nerve)  |
| Rachilla hair type                  | long                     |
| Ventral furrow - presence of hairs  | present                  |
| Disposition of lodicules            | clasping ("collar" type) |

#### Anthocyanin colouration

|                               |                     |
|-------------------------------|---------------------|
| Flag leaf - auricles          | absent to very weak |
| Lemma nerves - at early dough | absent or very weak |
| Awn tips                      | absent to very weak |

#### Plant growth characters

|   |                                |
|---|--------------------------------|
| Plant - growth habit                    | intermediate to semi-prostrate |
| Plant - length                          | short to medium                |
| Lower leaf - hairiness of sheaths       | present                        |
| Time of ear emergence                   | early to medium                |
| Flag leaf - glaucosity of sheath        | strong                         |
| Ear - glaucosity                        | strong                         |
| Ear - attitude 21 days after ear emerg. | semi-erect                     |



## WINTER BARLEY

AFP 2/2022

# FM9737

### CHARACTERS IN DETAIL

#### Ear

|                |          |
|----------------|----------|
| Number of rows | six      |
| Density        | lax      |
| Length         | medium   |
| Shape          | parallel |

#### Awn

|                        |                           |
|------------------------|---------------------------|
| Length compared to ear | medium (+/- equal to ear) |
|------------------------|---------------------------|

#### Rachis

|                            |        |
|----------------------------|--------|
| Length of first segment    | medium |
| Curvature of first segment | absent |

#### Spikelet

|  |       |
|--|-------|
| Sterile spikelet - attitude                    | n/a   |
| Sterile spikelet - development                 | n/a   |
| Median spikelet - length of glume+awn of grain | equal |

#### Grain

|                                     |                             |
|-------------------------------------|-----------------------------|
| Kernel - colour of aleurone layer   | whitish ("white")           |
| Husk - presence after harvest       | present                     |
| Spiculation of inner lateral nerves | very strong (>10 per nerve) |
| Rachilla hair type                  | long                        |
| Ventral furrow - presence of hairs  | present                     |
| Disposition of lodicules            | clasping ("collar" type)    |

#### Anthocyanin colouration

|                               |                     |
|-------------------------------|---------------------|
| Flag leaf - auricles          | absent to very weak |
| Lemma nerves - at early dough | absent or very weak |
| Awn tips                      | absent to very weak |

#### Plant growth characters

|   |                                |
|---|--------------------------------|
| Plant - growth habit                    | intermediate to semi-prostrate |
| Plant - length                          | short                          |
| Lower leaf - hairiness of sheaths       | present                        |
| Time of ear emergence                   | very early to early            |
| Flag leaf - glaucosity of sheath        | strong to very strong          |
| Ear - glaucosity                        | medium                         |
| Ear - attitude 21 days after ear emerg. | erect to semi-erect            |

## WINTER BARLEY

AFP 2/2149

## FM9918.

### CHARACTERS IN DETAIL

#### Ear

|                |                 |
|----------------|-----------------|
| Number of rows | more than two   |
| Density        | lax             |
| Length         | short to medium |
| Shape          | parallel        |

#### Awn

|                        |      |
|------------------------|------|
| Length compared to ear | long |
|------------------------|------|

#### Rachis

|                            |                 |
|----------------------------|-----------------|
| Length of first segment    | short to medium |
| Curvature of first segment | very weak       |

#### Spikelet

|  |        |
|--|--------|
| Sterile spikelet - attitude                    | n/a    |
| Sterile spikelet - development                 | n/a    |
| Median spikelet - length of glume+awn cf grain | longer |

#### Grain

|                                     |             |
|-------------------------------------|-------------|
| Kernel - colour of aleurone layer   | whitish     |
| Husk - presence after harvest       | present     |
| Spiculation of inner lateral nerves | very strong |
| Rachilla hair type                  | long        |
| Ventral furrow - presence of hairs  | present     |
| Disposition of lodicules            | clasping    |

#### Anthocyanin colouration

|                               |                     |
|-------------------------------|---------------------|
| Flag leaf - auricles          | absent or very weak |
| Lemma nerves - at early dough | absent or very weak |
| Awn tips                      | absent or very weak |

#### Plant growth characters

|   |                                |
|---|--------------------------------|
| Plant - growth habit                    | intermediate to semi-prostrate |
| Plant - length                          | medium                         |
| Lower leaf - hairiness of sheaths       | present                        |
| Time of ear emergence                   | early                          |
| Flag leaf - glaucosity of sheath        | strong to very strong          |
| Ear - glaucosity                        | medium                         |
| Ear - attitude 21 days after ear emerg. | semi-erect                     |

## WINTER BARLEY

AFP 2/2583

# HARLEQUIN

### CHARACTERS IN DETAIL

#### Ear

|                |          |
|----------------|----------|
| Number of rows | two      |
| Density        | lax      |
| Length         | medium   |
| Shape          | tapering |

#### Awn

|                        |                      |
|------------------------|----------------------|
| Length compared to ear | shorter to +/- equal |
|------------------------|----------------------|

#### Rachis

|                            |        |
|----------------------------|--------|
| Length of first segment    | medium |
| Curvature of first segment | medium |

#### Spikelet

|  |          |
|--|----------|
| Sterile spikelet - attitude                    | parallel |
| Sterile spikelet - development                 | full     |
| Median spikelet - length of glume+awn of grain | equal    |

#### Grain

|                                     |                            |
|-------------------------------------|----------------------------|
| Kernel - colour of aleurone layer   | strongly coloured ("blue") |
| Husk - presence after harvest       | present                    |
| Spiculation of inner lateral nerves | v. weak to weak            |
| Rachilla hair type                  | long                       |
| Ventral furrow - presence of hairs  | present                    |
| Disposition of lodicules            | clasping ("collar" type)   |

#### Anthocyanin colouration

|                               |                     |
|-------------------------------|---------------------|
| Flag leaf - auricles          | absent to very weak |
| Lemma nerves - at early dough | absent or very weak |
| Awn tips                      | absent to very weak |

#### Plant growth characters

|   |                          |
|---|--------------------------|
| Plant - growth habit                    | semi-prostrate           |
| Plant - length                          | medium                   |
| Lower leaf - hairiness of sheaths       | present                  |
| Time of ear emergence                   | early to medium          |
| Flag leaf - glaucosity of sheath        | medium                   |
| Ear - glaucosity                        | weak to medium           |
| Ear - attitude 21 days after ear emerg. | semi-erect to horizontal |

## WINTER BARLEY

AFP 2/2650

# KWS CAPELLA

### CHARACTERS IN DETAIL

#### Ear

|                |                 |
|----------------|-----------------|
| Number of rows | two             |
| Density        | very lax to lax |
| Length         | short to medium |
| Shape          | tapering        |

#### Awn

|                        |                |
|------------------------|----------------|
| Length compared to ear | medium to long |
|------------------------|----------------|

#### Rachis

|                            |        |
|----------------------------|--------|
| Length of first segment    | medium |
| Curvature of first segment | medium |

#### Spikelet

|  |                     |
|--|---------------------|
| Sterile spikelet - attitude                    | n/a                 |
| Sterile spikelet - development                 | none or rudimentary |
| Median spikelet - length of glume+awn of grain | equal               |

#### Grain

|                                     |                 |
|-------------------------------------|-----------------|
| Kernel - colour of aleurone layer   | whitish         |
| Husk - presence after harvest       | present         |
| Spiculation of inner lateral nerves | v. weak to weak |
| Rachilla hair type                  | long            |
| Ventral furrow - presence of hairs  | absent          |
| Disposition of lodicules            | clasping        |

#### Anthocyanin colouration

|                               |                     |
|-------------------------------|---------------------|
| Flag leaf - auricles          | absent or very weak |
| Lemma nerves - at early dough | absent or very weak |
| Awn tips                      | very weak to weak   |

#### Plant growth characters

|   |                 |
|---|-----------------|
| Plant - growth habit                    | semi-prostrate  |
| Plant - length                          | short to medium |
| Lower leaf - hairiness of sheaths       | present         |
| Time of ear emergence                   | late            |
| Flag leaf - glaucosity of sheath        | medium          |
| Ear - glaucosity                        | weak to medium  |
| Ear - attitude 21 days after ear emerg. | semi-erect      |

## WINTER BARLEY

AFP 2/2309

## KWS CASSIA

### CHARACTERS IN DETAIL

#### Ear

|                |          |
|----------------|----------|
| Number of rows | two      |
| Density        | lax      |
| Length         | medium   |
| Shape          | parallel |

#### Awn

|                        |                           |
|------------------------|---------------------------|
| Length compared to ear | medium (+/- equal to ear) |
|------------------------|---------------------------|

#### Rachis

|                            |                |
|----------------------------|----------------|
| Length of first segment    | short          |
| Curvature of first segment | weak to medium |

#### Spikelet

|  |                                |
|--|--------------------------------|
| Sterile spikelet - attitude                    | n/a                            |
| Sterile spikelet - development                 | none or rudimentary(deficiens) |
| Median spikelet - length of glume+awn of grain | equal                          |

#### Grain

|                                     |                                |
|-------------------------------------|--------------------------------|
| Kernel - colour of aleurone layer   | strongly coloured ("blue")     |
| Husk - presence after harvest       | present                        |
| Spiculation of inner lateral nerves | absent/v. weak (0-2 per nerve) |
| Rachilla hair type                  | long                           |
| Ventral furrow - presence of hairs  | present                        |
| Disposition of lodicules            | clasping ("collar" type)       |

#### Anthocyanin colouration

|                               |                     |
|-------------------------------|---------------------|
| Flag leaf - auricles          | very weak to weak   |
| Lemma nerves - at early dough | absent or very weak |
| Awn tips                      | absent to very weak |

#### Plant growth characters

|   |                            |
|---|----------------------------|
| Plant - growth habit                    | semi-erect to intermediate |
| Plant - length                          | short to medium            |
| Lower leaf - hairiness of sheaths       | present                    |
| Time of ear emergence                   | medium to late             |
| Flag leaf - glaucosity of sheath        | medium to strong           |
| Ear - glaucosity                        | weak to medium             |
| Ear - attitude 21 days after ear emerg. | semi-erect to horizontal   |

## WINTER BARLEY

AFP 2/2523

# KWS GLACIER

### CHARACTERS IN DETAIL

#### Ear

|                |          |
|----------------|----------|
| Number of rows | two      |
| Density        | lax      |
| Length         | medium   |
| Shape          | tapering |

#### Awn

|                        |                           |
|------------------------|---------------------------|
| Length compared to ear | medium (+/- equal to ear) |
|------------------------|---------------------------|

#### Rachis

|                            |        |
|----------------------------|--------|
| Length of first segment    | medium |
| Curvature of first segment | medium |

#### Spikelet

|  |                                |
|--|--------------------------------|
| Sterile spikelet - attitude                    | n/a                            |
| Sterile spikelet - development                 | none or rudimentary(deficiens) |
| Median spikelet - length of glume+awn of grain | equal                          |

#### Grain

|                                     |                                |
|-------------------------------------|--------------------------------|
| Kernel - colour of aleurone layer   | strongly coloured ("blue")     |
| Husk - presence after harvest       | present                        |
| Spiculation of inner lateral nerves | absent/v. weak (0-2 per nerve) |
| Rachilla hair type                  | long                           |
| Ventral furrow - presence of hairs  | present                        |
| Disposition of lodicules            | clasping ("collar" type)       |

#### Anthocyanin colouration

|                               |                     |
|-------------------------------|---------------------|
| Flag leaf - auricles          | absent to very weak |
| Lemma nerves - at early dough | absent or very weak |
| Awn tips                      | absent to very weak |

#### Plant growth characters

|   |                     |
|---|---------------------|
| Plant - growth habit                    | intermediate        |
| Plant - length                          | short to medium     |
| Lower leaf - hairiness of sheaths       | present             |
| Time of ear emergence                   | medium to late      |
| Flag leaf - glaucosity of sheath        | medium              |
| Ear - glaucosity                        | medium to strong    |
| Ear - attitude 21 days after ear emerg. | erect to semi-erect |

## WINTER BARLEY

AFP 2/2521

# KWS JOY

### CHARACTERS IN DETAIL

#### Ear

|                |          |
|----------------|----------|
| Number of rows | two      |
| Density        | lax      |
| Length         | medium   |
| Shape          | tapering |

#### Awn

|                        |                           |
|------------------------|---------------------------|
| Length compared to ear | medium (+/- equal to ear) |
|------------------------|---------------------------|

#### Rachis

|                            |        |
|----------------------------|--------|
| Length of first segment    | long   |
| Curvature of first segment | strong |

#### Spikelet

|  |                              |
|--|------------------------------|
| Sterile spikelet - attitude                    | parallel to weakly divergent |
| Sterile spikelet - development                 | full                         |
| Median spikelet - length of glume+awn of grain | equal                        |

#### Grain

|                                     |                          |
|-------------------------------------|--------------------------|
| Kernel - colour of aleurone layer   | whitish ("white")        |
| Husk - presence after harvest       | present                  |
| Spiculation of inner lateral nerves | medium (3-5 per nerve)   |
| Rachilla hair type                  | short                    |
| Ventral furrow - presence of hairs  | absent                   |
| Disposition of lodicules            | clasping ("collar" type) |

#### Anthocyanin colouration

|                               |                     |
|-------------------------------|---------------------|
| Flag leaf - auricles          | absent to very weak |
| Lemma nerves - at early dough | absent or very weak |
| Awn tips                      | absent to very weak |

#### Plant growth characters

|   |                                |
|---|--------------------------------|
| Plant - growth habit                    | intermediate to semi-prostrate |
| Plant - length                          | short                          |
| Lower leaf - hairiness of sheaths       | present                        |
| Time of ear emergence                   | late                           |
| Flag leaf - glaucosity of sheath        | strong                         |
| Ear - glaucosity                        | medium                         |
| Ear - attitude 21 days after ear emerg. | semi-erect                     |

## WINTER BARLEY

AFP 2/2436

# KWS MERIDIAN

### CHARACTERS IN DETAIL

#### Ear

|                |                 |
|----------------|-----------------|
| Number of rows | six             |
| Density        | medium          |
| Length         | short to medium |
| Shape          | parallel        |

#### Awn

|                        |                           |
|------------------------|---------------------------|
| Length compared to ear | medium (+/- equal to ear) |
|------------------------|---------------------------|

#### Rachis

|                            |        |
|----------------------------|--------|
| Length of first segment    | medium |
| Curvature of first segment | strong |

#### Spikelet

|  |        |
|--|--------|
| Sterile spikelet - attitude                    | n/a    |
| Sterile spikelet - development                 | n/a    |
| Median spikelet - length of glume+awn of grain | longer |

#### Grain

|                                     |                          |
|-------------------------------------|--------------------------|
| Kernel - colour of aleurone layer   | whitish ("white")        |
| Husk - presence after harvest       | present                  |
| Spiculation of inner lateral nerves | strong to v. strong      |
| Rachilla hair type                  | long                     |
| Ventral furrow - presence of hairs  | absent                   |
| Disposition of lodicules            | clasping ("collar" type) |

#### Anthocyanin colouration

|                               |                     |
|-------------------------------|---------------------|
| Flag leaf - auricles          | absent to very weak |
| Lemma nerves - at early dough | absent or very weak |
| Awn tips                      | absent to very weak |

#### Plant growth characters

|   |                            |
|---|----------------------------|
| Plant - growth habit                    | semi-erect to intermediate |
| Plant - length                          | medium to long             |
| Lower leaf - hairiness of sheaths       | present                    |
| Time of ear emergence                   | medium                     |
| Flag leaf - glaucosity of sheath        | strong                     |
| Ear - glaucosity                        | medium to strong           |
| Ear - attitude 21 days after ear emerg. | semi-erect                 |



## WINTER BARLEY

AFP 2/232

# MARIS OTTER

### CHARACTERS IN DETAIL

#### Ear

|                |                |
|----------------|----------------|
| Number of rows | two            |
| Density        | medium         |
| Length         | medium to long |
| Shape          | parallel       |

#### Awn

|                        |                        |
|------------------------|------------------------|
| Length compared to ear | long (longer than ear) |
|------------------------|------------------------|

#### Rachis

|                            |                |
|----------------------------|----------------|
| Length of first segment    | medium to long |
| Curvature of first segment | weak to medium |

#### Spikelet

|  |           |
|--|-----------|
| Sterile spikelet - attitude                    | divergent |
| Sterile spikelet - development                 |           |
| Median spikelet - length of glume+awn of grain | equal     |

#### Grain

|                                     |                                |
|-------------------------------------|--------------------------------|
| Kernel - colour of aleurone layer   | whitish ("white")              |
| Husk - presence after harvest       | present                        |
| Spiculation of inner lateral nerves | absent/v. weak (0-2 per nerve) |
| Rachilla hair type                  | long                           |
| Ventral furrow - presence of hairs  | absent                         |
| Disposition of lodicules            | clasping ("collar" type)       |

#### Anthocyanin colouration

|                               |        |
|-------------------------------|--------|
| Flag leaf - auricles          | strong |
| Lemma nerves - at early dough | medium |
| Awn tips                      | medium |

#### Plant growth characters

|   |                             |
|---|-----------------------------|
| Plant - growth habit                    | semi-prostrate to prostrate |
| Plant - length                          | short                       |
| Lower leaf - hairiness of sheaths       | present                     |
| Time of ear emergence                   | late to very late           |
| Flag leaf - glaucosity of sheath        | medium                      |
| Ear - glaucosity                        | medium                      |
| Ear - attitude 21 days after ear emerg. | horizontal                  |

## WINTER BARLEY

AFP 2/2725

## KWS TOWER

### CHARACTERS IN DETAIL

#### Ear

|                |                |
|----------------|----------------|
| Number of rows | two            |
| Density        | lax            |
| Length         | medium to long |
| Shape          | tapering       |

#### Awn

|                        |        |
|------------------------|--------|
| Length compared to ear | medium |
|------------------------|--------|

#### Rachis

|                            |        |
|----------------------------|--------|
| Length of first segment    | long   |
| Curvature of first segment | strong |

#### Spikelet

|  |                     |
|--|---------------------|
| Sterile spikelet - attitude                    | n/a                 |
| Sterile spikelet - development                 | none or rudimentary |
| Median spikelet - length of glume+awn of grain | equal               |

#### Grain

|                                     |                |
|-------------------------------------|----------------|
| Kernel - colour of aleurone layer   | whitish        |
| Husk - presence after harvest       | present        |
| Spiculation of inner lateral nerves | weak to medium |
| Rachilla hair type                  | long           |
| Ventral furrow - presence of hairs  | absent         |
| Disposition of lodicules            | clasping       |

#### Anthocyanin colouration

|                               |                     |
|-------------------------------|---------------------|
| Flag leaf - auricles          | absent or very weak |
| Lemma nerves - at early dough | absent or very weak |
| Awn tips                      | absent or very weak |

#### Plant growth characters

|   |                                |
|---|--------------------------------|
| Plant - growth habit                    | intermediate to semi-prostrate |
| Plant - length                          | short to medium                |
| Lower leaf - hairiness of sheaths       | present                        |
| Time of ear emergence                   | medium to late                 |
| Flag leaf - glaucosity of sheath        | medium                         |
| Ear - glaucosity                        | weak                           |
| Ear - attitude 21 days after ear emerg. | erect to semi-erect            |

## WINTER BARLEY

AFP 2/2452

# MATROS

### CHARACTERS IN DETAIL

#### Ear

|                |                |
|----------------|----------------|
| Number of rows | two            |
| Density        | lax to medium  |
| Length         | medium to long |
| Shape          | parallel       |

#### Awn

|                        |                           |
|------------------------|---------------------------|
| Length compared to ear | medium (+/- equal to ear) |
|------------------------|---------------------------|

#### Rachis

|                            |                 |
|----------------------------|-----------------|
| Length of first segment    | short to medium |
| Curvature of first segment | medium          |

#### Spikelet

|  |                                |
|--|--------------------------------|
| Sterile spikelet - attitude                    | n/a                            |
| Sterile spikelet - development                 | none or rudimentary(deficiens) |
| Median spikelet - length of glume+awn of grain | equal                          |

#### Grain

|                                     |                                |
|-------------------------------------|--------------------------------|
| Kernel - colour of aleurone layer   | whitish ("white")              |
| Husk - presence after harvest       | present                        |
| Spiculation of inner lateral nerves | absent/v. weak (0-2 per nerve) |
| Rachilla hair type                  | long                           |
| Ventral furrow - presence of hairs  | absent                         |
| Disposition of lodicules            | clasping ("collar" type)       |

#### Anthocyanin colouration

|                               |                       |
|-------------------------------|-----------------------|
| Flag leaf - auricles          | very strong           |
| Lemma nerves - at early dough | strong to very strong |
| Awn tips                      | strong to very strong |

#### Plant growth characters

|   |                                |
|---|--------------------------------|
| Plant - growth habit                    | intermediate to semi-prostrate |
| Plant - length                          | medium                         |
| Lower leaf - hairiness of sheaths       | present                        |
| Time of ear emergence                   | medium to late                 |
| Flag leaf - glaucosity of sheath        | medium to strong               |
| Ear - glaucosity                        | strong                         |
| Ear - attitude 21 days after ear emerg. | semi-recurved to recurved      |

## WINTER BARLEY

AFP 2/2514

# MEZMAAR

### CHARACTERS IN DETAIL

#### Ear

|                |                 |
|----------------|-----------------|
| Number of rows | two             |
| Density        | medium          |
| Length         | short to medium |
| Shape          | tapering        |

#### Awn

|                        |                           |
|------------------------|---------------------------|
| Length compared to ear | medium (+/- equal to ear) |
|------------------------|---------------------------|

#### Rachis

|                            |        |
|----------------------------|--------|
| Length of first segment    | medium |
| Curvature of first segment | medium |

#### Spikelet

|  |                                |
|--|--------------------------------|
| Sterile spikelet - attitude                    | n/a                            |
| Sterile spikelet - development                 | none or rudimentary(deficiens) |
| Median spikelet - length of glume+awn of grain | equal                          |

#### Grain

|                                     |                          |
|-------------------------------------|--------------------------|
| Kernel - colour of aleurone layer   | whitish ("white")        |
| Husk - presence after harvest       | present                  |
| Spiculation of inner lateral nerves | strong (5-10 per nerve)  |
| Rachilla hair type                  | long                     |
| Ventral furrow - presence of hairs  | absent                   |
| Disposition of lodicules            | clasping ("collar" type) |

#### Anthocyanin colouration

|                               |                     |
|-------------------------------|---------------------|
| Flag leaf - auricles          | absent to very weak |
| Lemma nerves - at early dough | absent or very weak |
| Awn tips                      | absent to very weak |

#### Plant growth characters

|   |                     |
|---|---------------------|
| Plant - growth habit                    | intermediate        |
| Plant - length                          | medium              |
| Lower leaf - hairiness of sheaths       | present             |
| Time of ear emergence                   | medium to late      |
| Flag leaf - glaucosity of sheath        | medium to strong    |
| Ear - glaucosity                        | medium              |
| Ear - attitude 21 days after ear emerg. | erect to semi-erect |

## WINTER BARLEY

AFP 2/2529

# MT0471

### CHARACTERS IN DETAIL

#### Ear

|                |          |
|----------------|----------|
| Number of rows | six      |
| Density        | dense    |
| Length         | short    |
| Shape          | parallel |

#### Awn

|                        |                        |
|------------------------|------------------------|
| Length compared to ear | long (longer than ear) |
|------------------------|------------------------|

#### Rachis

|                            |           |
|----------------------------|-----------|
| Length of first segment    | medium    |
| Curvature of first segment | very weak |

#### Spikelet

|  |        |
|--|--------|
| Sterile spikelet - attitude                    | n/a    |
| Sterile spikelet - development                 | n/a    |
| Median spikelet - length of glume+awn of grain | longer |

#### Grain

|                                     |                          |
|-------------------------------------|--------------------------|
| Kernel - colour of aleurone layer   | whitish ("white")        |
| Husk - presence after harvest       | present                  |
| Spiculation of inner lateral nerves | strong to v. strong      |
| Rachilla hair type                  | long                     |
| Ventral furrow - presence of hairs  | present                  |
| Disposition of lodicules            | clasping ("collar" type) |

#### Anthocyanin colouration

|                               |                     |
|-------------------------------|---------------------|
| Flag leaf - auricles          | absent to very weak |
| Lemma nerves - at early dough | absent or very weak |
| Awn tips                      | absent to very weak |

#### Plant growth characters

|   |                       |
|---|-----------------------|
| Plant - growth habit                    | intermediate          |
| Plant - length                          | short to medium       |
| Lower leaf - hairiness of sheaths       | present               |
| Time of ear emergence                   | early                 |
| Flag leaf - glaucosity of sheath        | strong to very strong |
| Ear - glaucosity                        | medium to strong      |
| Ear - attitude 21 days after ear emerg. | erect to semi-erect   |

## WINTER BARLEY

AFP 2/2023

# MT9737

### CHARACTERS IN DETAIL

#### Ear

|                |          |
|----------------|----------|
| Number of rows | six      |
| Density        | medium   |
| Length         | medium   |
| Shape          | parallel |

#### Awn

|                        |                           |
|------------------------|---------------------------|
| Length compared to ear | medium (+/- equal to ear) |
|------------------------|---------------------------|

#### Rachis

|                            |                 |
|----------------------------|-----------------|
| Length of first segment    | short to medium |
| Curvature of first segment | very weak       |

#### Spikelet

|  |         |
|--|---------|
| Sterile spikelet - attitude                    |         |
| Sterile spikelet - development                 |         |
| Median spikelet - length of glume+awn of grain | shorter |

#### Grain

|                                     |                          |
|-------------------------------------|--------------------------|
| Kernel - colour of aleurone layer   | whitish ("white")        |
| Husk - presence after harvest       | present                  |
| Spiculation of inner lateral nerves | strong (5-10 per nerve)  |
| Rachilla hair type                  | long                     |
| Ventral furrow - presence of hairs  | present                  |
| Disposition of lodicules            | clasping ("collar" type) |

#### Anthocyanin colouration

|                               |                     |
|-------------------------------|---------------------|
| Flag leaf - auricles          | absent to very weak |
| Lemma nerves - at early dough | very weak to weak   |
| Awn tips                      | absent to very weak |

#### Plant growth characters

|   |                |
|---|----------------|
| Plant - growth habit                    | semi-prostrate |
| Plant - length                          | short          |
| Lower leaf - hairiness of sheaths       | present        |
| Time of ear emergence                   | very early     |
| Flag leaf - glaucosity of sheath        | very strong    |
| Ear - glaucosity                        | strong         |
| Ear - attitude 21 days after ear emerg. | semi-erect     |

## WINTER BARLEY

AFP 2/2150

## MT9918.

### CHARACTERS IN DETAIL

#### Ear

|                |                 |
|----------------|-----------------|
| Number of rows | more than two   |
| Density        | lax             |
| Length         | short to medium |
| Shape          | parallel        |

#### Awn

|                        |      |
|------------------------|------|
| Length compared to ear | long |
|------------------------|------|

#### Rachis

|                            |        |
|----------------------------|--------|
| Length of first segment    | medium |
| Curvature of first segment | weak   |

#### Spikelet

|  |        |
|--|--------|
| Sterile spikelet - attitude                    | n/a    |
| Sterile spikelet - development                 | n/a    |
| Median spikelet - length of glume+awn cf grain | longer |

#### Grain

|                                     |             |
|-------------------------------------|-------------|
| Kernel - colour of aleurone layer   | whitish     |
| Husk - presence after harvest       | present     |
| Spiculation of inner lateral nerves | very strong |
| Rachilla hair type                  | long        |
| Ventral furrow - presence of hairs  | present     |
| Disposition of lodicules            | clasping    |

#### Anthocyanin colouration

|                               |                     |
|-------------------------------|---------------------|
| Flag leaf - auricles          | absent or very weak |
| Lemma nerves - at early dough | very weak to weak   |
| Awn tips                      | absent or very weak |

#### Plant growth characters

|   |                                |
|---|--------------------------------|
| Plant - growth habit                    | intermediate to semi-prostrate |
| Plant - length                          | medium                         |
| Lower leaf - hairiness of sheaths       | present                        |
| Time of ear emergence                   | early                          |
| Flag leaf - glaucosity of sheath        | strong                         |
| Ear - glaucosity                        | medium                         |
| Ear - attitude 21 days after ear emerg. | semi-erect                     |

## WINTER BARLEY

AFP 2/1318

# PEARL

### CHARACTERS IN DETAIL

#### Ear

|                |                |
|----------------|----------------|
| Number of rows | two            |
| Density        | medium         |
| Length         | medium to long |
| Shape          | tapering       |

#### Awn

|                        |                        |
|------------------------|------------------------|
| Length compared to ear | long (longer than ear) |
|------------------------|------------------------|

#### Rachis

|                            |        |
|----------------------------|--------|
| Length of first segment    | medium |
| Curvature of first segment | medium |

#### Spikelet

|  |           |
|--|-----------|
| Sterile spikelet - attitude                    | divergent |
| Sterile spikelet - development                 |           |
| Median spikelet - length of glume+awn of grain | equal     |

#### Grain

|                                     |                            |
|-------------------------------------|----------------------------|
| Kernel - colour of aleurone layer   | strongly coloured ("blue") |
| Husk - presence after harvest       | present                    |
| Spiculation of inner lateral nerves | medium (3-5 per nerve)     |
| Rachilla hair type                  | long                       |
| Ventral furrow - presence of hairs  | absent                     |
| Disposition of lodicules            | clasping ("collar" type)   |

#### Anthocyanin colouration

|                               |                   |
|-------------------------------|-------------------|
| Flag leaf - auricles          | medium to strong  |
| Lemma nerves - at early dough | very weak to weak |
| Awn tips                      | weak to medium    |

#### Plant growth characters

|   |                          |
|---|--------------------------|
| Plant - growth habit                    | intermediate             |
| Plant - length                          | medium to long           |
| Lower leaf - hairiness of sheaths       | present                  |
| Time of ear emergence                   | late                     |
| Flag leaf - glaucosity of sheath        | strong to very strong    |
| Ear - glaucosity                        | strong                   |
| Ear - attitude 21 days after ear emerg. | semi-erect to horizontal |



## WINTER BARLEY

AFP 2/2651

# PERSEUS

### CHARACTERS IN DETAIL

#### Ear

|                |                 |
|----------------|-----------------|
| Number of rows | two             |
| Density        | lax             |
| Length         | short to medium |
| Shape          | tapering        |

#### Awn

|                        |        |
|------------------------|--------|
| Length compared to ear | medium |
|------------------------|--------|

#### Rachis

|                            |                  |
|----------------------------|------------------|
| Length of first segment    | medium           |
| Curvature of first segment | medium to strong |

#### Spikelet

|  |                     |
|--|---------------------|
| Sterile spikelet - attitude                    | n/a                 |
| Sterile spikelet - development                 | none or rudimentary |
| Median spikelet - length of glume+awn of grain | equal               |

#### Grain

|                                     |                     |
|-------------------------------------|---------------------|
| Kernel - colour of aleurone layer   | strongly coloured   |
| Husk - presence after harvest       | present             |
| Spiculation of inner lateral nerves | strong to v. strong |
| Rachilla hair type                  | long                |
| Ventral furrow - presence of hairs  | present             |
| Disposition of lodicules            | clasping            |

#### Anthocyanin colouration

|                               |                       |
|-------------------------------|-----------------------|
| Flag leaf - auricles          | strong                |
| Lemma nerves - at early dough | strong to very strong |
| Awn tips                      | strong                |

#### Plant growth characters

|   |                  |
|---|------------------|
| Plant - growth habit                    | semi-prostrate   |
| Plant - length                          | short            |
| Lower leaf - hairiness of sheaths       | present          |
| Time of ear emergence                   | medium           |
| Flag leaf - glaucosity of sheath        | medium           |
| Ear - glaucosity                        | medium to strong |
| Ear - attitude 21 days after ear emerg. | semi-erect       |

## WINTER BARLEY

AFP 2/2306

# PURDEY

### CHARACTERS IN DETAIL

#### Ear

|                |                |
|----------------|----------------|
| Number of rows | two            |
| Density        | lax            |
| Length         | medium to long |
| Shape          | parallel       |

#### Awn

|                        |                      |
|------------------------|----------------------|
| Length compared to ear | shorter to +/- equal |
|------------------------|----------------------|

#### Rachis

|                            |        |
|----------------------------|--------|
| Length of first segment    | medium |
| Curvature of first segment | medium |

#### Spikelet

|  |                              |
|--|------------------------------|
| Sterile spikelet - attitude                    | parallel to weakly divergent |
| Sterile spikelet - development                 | full                         |
| Median spikelet - length of glume+awn of grain | equal                        |

#### Grain

|                                     |                          |
|-------------------------------------|--------------------------|
| Kernel - colour of aleurone layer   | weakly coloured          |
| Husk - presence after harvest       | present                  |
| Spiculation of inner lateral nerves | strong (5-10 per nerve)  |
| Rachilla hair type                  | long                     |
| Ventral furrow - presence of hairs  | present                  |
| Disposition of lodicules            | clasping ("collar" type) |

#### Anthocyanin colouration

|                               |                     |
|-------------------------------|---------------------|
| Flag leaf - auricles          | absent to very weak |
| Lemma nerves - at early dough | absent or very weak |
| Awn tips                      | absent to very weak |

#### Plant growth characters

|   |                             |
|---|-----------------------------|
| Plant - growth habit                    | semi-prostrate to prostrate |
| Plant - length                          | short to medium             |
| Lower leaf - hairiness of sheaths       | present                     |
| Time of ear emergence                   | medium                      |
| Flag leaf - glaucosity of sheath        | strong                      |
| Ear - glaucosity                        | weak                        |
| Ear - attitude 21 days after ear emerg. | semi-erect to horizontal    |

## WINTER BARLEY

AFP 2/2601

# QUADRA

### CHARACTERS IN DETAIL

#### Ear

|                |                 |
|----------------|-----------------|
| Number of rows | more than two   |
| Density        | medium          |
| Length         | short to medium |
| Shape          | parallel        |

#### Awn

|                        |        |
|------------------------|--------|
| Length compared to ear | medium |
|------------------------|--------|

#### Rachis

|                            |                 |
|----------------------------|-----------------|
| Length of first segment    | short to medium |
| Curvature of first segment | weak to medium  |

#### Spikelet

|  |       |
|--|-------|
| Sterile spikelet - attitude                    | n/a   |
| Sterile spikelet - development                 | n/a   |
| Median spikelet - length of glume+awn cf grain | equal |

#### Grain

|                                     |                   |
|-------------------------------------|-------------------|
| Kernel - colour of aleurone layer   | strongly coloured |
| Husk - presence after harvest       | present           |
| Spiculation of inner lateral nerves | strong            |
| Rachilla hair type                  | long              |
| Ventral furrow - presence of hairs  | absent            |
| Disposition of lodicules            | clasping          |

#### Anthocyanin colouration

|                               |                   |
|-------------------------------|-------------------|
| Flag leaf - auricles          | very weak to weak |
| Lemma nerves - at early dough | very weak to weak |
| Awn tips                      | weak              |

#### Plant growth characters

|   |                  |
|---|------------------|
| Plant - growth habit                    | semi-prostrate   |
| Plant - length                          | long             |
| Lower leaf - hairiness of sheaths       | present          |
| Time of ear emergence                   | early to medium  |
| Flag leaf - glaucosity of sheath        | medium to strong |
| Ear - glaucosity                        | medium to strong |
| Ear - attitude 21 days after ear emerg. | semi-erect       |

## WINTER BARLEY

AFP 2/2250

# RE11

### CHARACTERS IN DETAIL

#### Ear

|                |          |
|----------------|----------|
| Number of rows | six      |
| Density        | medium   |
| Length         | medium   |
| Shape          | parallel |

#### Awn

|                        |                        |
|------------------------|------------------------|
| Length compared to ear | long (longer than ear) |
|------------------------|------------------------|

#### Rachis

|                            |                 |
|----------------------------|-----------------|
| Length of first segment    | short to medium |
| Curvature of first segment | medium          |

#### Spikelet

|  |       |
|--|-------|
| Sterile spikelet - attitude                    | n/a   |
| Sterile spikelet - development                 | n/a   |
| Median spikelet - length of glume+awn cf grain | equal |

#### Grain

|                                     |                          |
|-------------------------------------|--------------------------|
| Kernel - colour of aleurone layer   | weakly coloured          |
| Husk - presence after harvest       | present                  |
| Spiculation of inner lateral nerves | strong (5-10 per nerve)  |
| Rachilla hair type                  | short                    |
| Ventral furrow - presence of hairs  | present                  |
| Disposition of lodicules            | clasping ("collar" type) |

#### Anthocyanin colouration

|                               |                |
|-------------------------------|----------------|
| Flag leaf - auricles          | weak           |
| Lemma nerves - at early dough | weak to medium |
| Awn tips                      | weak to medium |

#### Plant growth characters

|   |                          |
|---|--------------------------|
| Plant - growth habit                    | intermediate             |
| Plant - length                          | medium to long           |
| Lower leaf - hairiness of sheaths       | present                  |
| Time of ear emergence                   | very late                |
| Flag leaf - glaucosity of sheath        | weak to medium           |
| Ear - glaucosity                        | weak to medium           |
| Ear - attitude 21 days after ear emerg. | semi-erect to horizontal |

## WINTER BARLEY

# RE15

### CHARACTERS IN DETAIL

#### Ear

|                |          |
|----------------|----------|
| Number of rows | six      |
| Density        | medium   |
| Length         | medium   |
| Shape          | parallel |

#### Awn

|                        |                           |
|------------------------|---------------------------|
| Length compared to ear | medium (+/- equal to ear) |
|------------------------|---------------------------|

#### Rachis

|                            |                |
|----------------------------|----------------|
| Length of first segment    | short          |
| Curvature of first segment | weak to medium |

#### Spikelet

|  |       |
|--|-------|
| Sterile spikelet - attitude                    | n/a   |
| Sterile spikelet - development                 | n/a   |
| Median spikelet - length of glume+awn cf grain | equal |

#### Grain

|                                     |                            |
|-------------------------------------|----------------------------|
| Kernel - colour of aleurone layer   | strongly coloured ("blue") |
| Husk - presence after harvest       | present                    |
| Spiculation of inner lateral nerves | strong (5-10 per nerve)    |
| Rachilla hair type                  | short                      |
| Ventral furrow - presence of hairs  | absent                     |
| Disposition of lodicules            | clasping ("collar" type)   |

#### Anthocyanin colouration

|                               |        |
|-------------------------------|--------|
| Flag leaf - auricles          | weak   |
| Lemma nerves - at early dough | weak   |
| Awn tips                      | medium |

#### Plant growth characters

|   |                          |
|---|--------------------------|
| Plant - growth habit                    | semi-prostrate           |
| Plant - length                          | medium to long           |
| Lower leaf - hairiness of sheaths       | present                  |
| Time of ear emergence                   | early                    |
| Flag leaf - glaucosity of sheath        | strong                   |
| Ear - glaucosity                        | medium to strong         |
| Ear - attitude 21 days after ear emerg. | semi-erect to horizontal |

**RETRIEVER****CHARACTERS IN DETAIL****Ear**

|                |          |
|----------------|----------|
| Number of rows | two      |
| Density        | lax      |
| Length         | medium   |
| Shape          | tapering |

**Awn**

|                        |                           |
|------------------------|---------------------------|
| Length compared to ear | medium (+/- equal to ear) |
|------------------------|---------------------------|

**Rachis**

|                            |        |
|----------------------------|--------|
| Length of first segment    | medium |
| Curvature of first segment | medium |

**Spikelet**

|  |                                |
|--|--------------------------------|
| Sterile spikelet - attitude                    | n/a                            |
| Sterile spikelet - development                 | none or rudimentary(deficiens) |
| Median spikelet - length of glume+awn of grain | equal                          |

**Grain**

|                                     |                          |
|-------------------------------------|--------------------------|
| Kernel - colour of aleurone layer   | whitish ("white")        |
| Husk - presence after harvest       | present                  |
| Spiculation of inner lateral nerves | medium to strong         |
| Rachilla hair type                  | long                     |
| Ventral furrow - presence of hairs  | absent                   |
| Disposition of lodicules            | clasping ("collar" type) |

**Anthocyanin colouration**

|                               |        |
|-------------------------------|--------|
| Flag leaf - auricles          | medium |
| Lemma nerves - at early dough | strong |
| Awn tips                      | strong |

**Plant growth characters**

|   |                                |
|---|--------------------------------|
| Plant - growth habit                    | intermediate to semi-prostrate |
| Plant - length                          | short                          |
| Lower leaf - hairiness of sheaths       | present                        |
| Time of ear emergence                   | early                          |
| Flag leaf - glaucosity of sheath        | medium                         |
| Ear - glaucosity                        | weak to medium                 |
| Ear - attitude 21 days after ear emerg. | semi-erect                     |

## WINTER BARLEY

AFP 2/1880

# SAFFRON

### CHARACTERS IN DETAIL

#### Ear

|                |          |
|----------------|----------|
| Number of rows | two      |
| Density        | medium   |
| Length         | medium   |
| Shape          | parallel |

#### Awn

|                        |                           |
|------------------------|---------------------------|
| Length compared to ear | medium (+/- equal to ear) |
|------------------------|---------------------------|

#### Rachis

|                            |                 |
|----------------------------|-----------------|
| Length of first segment    | short to medium |
| Curvature of first segment | medium          |

#### Spikelet

|  |                                |
|--|--------------------------------|
| Sterile spikelet - attitude                    | n/a                            |
| Sterile spikelet - development                 | none or rudimentary(deficiens) |
| Median spikelet - length of glume+awn of grain | equal                          |

#### Grain

|                                     |                            |
|-------------------------------------|----------------------------|
| Kernel - colour of aleurone layer   | strongly coloured ("blue") |
| Husk - presence after harvest       | present                    |
| Spiculation of inner lateral nerves | weak to medium             |
| Rachilla hair type                  | long                       |
| Ventral furrow - presence of hairs  | present                    |
| Disposition of lodicules            | clasping ("collar" type)   |

#### Anthocyanin colouration

|                               |                     |
|-------------------------------|---------------------|
| Flag leaf - auricles          |                     |
| Lemma nerves - at early dough | absent or very weak |
| Awn tips                      |                     |

#### Plant growth characters

|   |                          |
|---|--------------------------|
| Plant - growth habit                    | intermediate             |
| Plant - length                          | short to medium          |
| Lower leaf - hairiness of sheaths       | present                  |
| Time of ear emergence                   | medium                   |
| Flag leaf - glaucosity of sheath        | medium to strong         |
| Ear - glaucosity                        | absent or very weak      |
| Ear - attitude 21 days after ear emerg. | semi-erect to horizontal |

## WINTER BARLEY

AFP 2/1717

# SEQUEL

### CHARACTERS IN DETAIL

#### Ear

|                |                      |
|----------------|----------------------|
| Number of rows | six                  |
| Density        | medium               |
| Length         | short to medium      |
| Shape          | tapering to parallel |

#### Awn

|                        |                        |
|------------------------|------------------------|
| Length compared to ear | long (longer than ear) |
|------------------------|------------------------|

#### Rachis

|                            |       |
|----------------------------|-------|
| Length of first segment    | short |
| Curvature of first segment | weak  |

#### Spikelet

|  |       |
|--|-------|
| Sterile spikelet - attitude                    |       |
| Sterile spikelet - development                 |       |
| Median spikelet - length of glume+awn of grain | equal |

#### Grain

|                                     |                          |
|-------------------------------------|--------------------------|
| Kernel - colour of aleurone layer   | whitish ("white")        |
| Husk - presence after harvest       | present                  |
| Spiculation of inner lateral nerves | strong (5-10 per nerve)  |
| Rachilla hair type                  | long                     |
| Ventral furrow - presence of hairs  | present                  |
| Disposition of lodicules            | clasping ("collar" type) |

#### Anthocyanin colouration

|                               |                |
|-------------------------------|----------------|
| Flag leaf - auricles          | weak to medium |
| Lemma nerves - at early dough | weak           |
| Awn tips                      | weak to medium |

#### Plant growth characters

|   |                                |
|---|--------------------------------|
| Plant - growth habit                    | intermediate to semi-prostrate |
| Plant - length                          | medium                         |
| Lower leaf - hairiness of sheaths       | present                        |
| Time of ear emergence                   | medium                         |
| Flag leaf - glaucosity of sheath        | medium to strong               |
| Ear - glaucosity                        | medium to strong               |
| Ear - attitude 21 days after ear emerg. | semi-erect to horizontal       |



## WINTER BARLEY

AFP 2/2454

# SINATRA

### CHARACTERS IN DETAIL

#### Ear

|                |                |
|----------------|----------------|
| Number of rows | two            |
| Density        | medium         |
| Length         | medium to long |
| Shape          | tapering       |

#### Awn

|                        |                           |
|------------------------|---------------------------|
| Length compared to ear | medium (+/- equal to ear) |
|------------------------|---------------------------|

#### Rachis

|                            |        |
|----------------------------|--------|
| Length of first segment    | medium |
| Curvature of first segment | medium |

#### Spikelet

|  |                              |
|--|------------------------------|
| Sterile spikelet - attitude                    | parallel to weakly divergent |
| Sterile spikelet - development                 | full                         |
| Median spikelet - length of glume+awn of grain | equal                        |

#### Grain

|                                     |                                |
|-------------------------------------|--------------------------------|
| Kernel - colour of aleurone layer   | whitish ("white")              |
| Husk - presence after harvest       | present                        |
| Spiculation of inner lateral nerves | absent/v. weak (0-2 per nerve) |
| Rachilla hair type                  | long                           |
| Ventral furrow - presence of hairs  | present                        |
| Disposition of lodicules            | clasping ("collar" type)       |

#### Anthocyanin colouration

|                               |                     |
|-------------------------------|---------------------|
| Flag leaf - auricles          | absent to very weak |
| Lemma nerves - at early dough | absent or very weak |
| Awn tips                      | absent to very weak |

#### Plant growth characters

|   |                 |
|---|-----------------|
| Plant - growth habit                    | intermediate    |
| Plant - length                          | short to medium |
| Lower leaf - hairiness of sheaths       | present         |
| Time of ear emergence                   | medium          |
| Flag leaf - glaucosity of sheath        | medium          |
| Ear - glaucosity                        | medium          |
| Ear - attitude 21 days after ear emerg. | semi-erect      |

## WINTER BARLEY

AFP 2/2513

# SOLOMAN

### CHARACTERS IN DETAIL

#### Ear

|                |          |
|----------------|----------|
| Number of rows | two      |
| Density        | medium   |
| Length         | medium   |
| Shape          | tapering |

#### Awn

|                        |                           |
|------------------------|---------------------------|
| Length compared to ear | medium (+/- equal to ear) |
|------------------------|---------------------------|

#### Rachis

|                            |        |
|----------------------------|--------|
| Length of first segment    | medium |
| Curvature of first segment | medium |

#### Spikelet

|  |           |
|--|-----------|
| Sterile spikelet - attitude                    | divergent |
| Sterile spikelet - development                 | full      |
| Median spikelet - length of glume+awn of grain | equal     |

#### Grain

|                                     |                            |
|-------------------------------------|----------------------------|
| Kernel - colour of aleurone layer   | strongly coloured ("blue") |
| Husk - presence after harvest       | present                    |
| Spiculation of inner lateral nerves | strong (5-10 per nerve)    |
| Rachilla hair type                  | short                      |
| Ventral furrow - presence of hairs  | absent                     |
| Disposition of lodicules            | clasping ("collar" type)   |

#### Anthocyanin colouration

|                               |                     |
|-------------------------------|---------------------|
| Flag leaf - auricles          | absent to very weak |
| Lemma nerves - at early dough | absent or very weak |
| Awn tips                      | absent to very weak |

#### Plant growth characters

|   |                                |
|---|--------------------------------|
| Plant - growth habit                    | intermediate to semi-prostrate |
| Plant - length                          | short to medium                |
| Lower leaf - hairiness of sheaths       | present                        |
| Time of ear emergence                   | medium                         |
| Flag leaf - glaucosity of sheath        | strong to very strong          |
| Ear - glaucosity                        | medium                         |
| Ear - attitude 21 days after ear emerg. | erect to semi-erect            |

## WINTER BARLEY

AFP 2/2083

# SUZUKA

### CHARACTERS IN DETAIL

#### Ear

|                |                      |
|----------------|----------------------|
| Number of rows | two                  |
| Density        | lax                  |
| Length         | medium               |
| Shape          | tapering to parallel |

#### Awn

|                        |                           |
|------------------------|---------------------------|
| Length compared to ear | medium (+/- equal to ear) |
|------------------------|---------------------------|

#### Rachis

|                            |                 |
|----------------------------|-----------------|
| Length of first segment    | short to medium |
| Curvature of first segment | medium          |

#### Spikelet

|  |                                |
|--|--------------------------------|
| Sterile spikelet - attitude                    | parallel                       |
| Sterile spikelet - development                 | none or rudimentary(deficiens) |
| Median spikelet - length of glume+awn of grain | equal                          |

#### Grain

|                                     |                          |
|-------------------------------------|--------------------------|
| Kernel - colour of aleurone layer   | weakly coloured          |
| Husk - presence after harvest       | present                  |
| Spiculation of inner lateral nerves | weak to medium           |
| Rachilla hair type                  | long                     |
| Ventral furrow - presence of hairs  | absent                   |
| Disposition of lodicules            | clasping ("collar" type) |

#### Anthocyanin colouration

|                               |                     |
|-------------------------------|---------------------|
| Flag leaf - auricles          | absent to very weak |
| Lemma nerves - at early dough | absent or very weak |
| Awn tips                      | absent to very weak |

#### Plant growth characters

|   |                          |
|---|--------------------------|
| Plant - growth habit                    | intermediate             |
| Plant - length                          | short to medium          |
| Lower leaf - hairiness of sheaths       | present                  |
| Time of ear emergence                   | early                    |
| Flag leaf - glaucosity of sheath        | weak to medium           |
| Ear - glaucosity                        | weak                     |
| Ear - attitude 21 days after ear emerg. | semi-erect to horizontal |

## WINTER BARLEY

AFP 2/2444

## SY BAMBOO

### CHARACTERS IN DETAIL

#### Ear

|                |               |
|----------------|---------------|
| Number of rows | more than two |
| Density        | medium        |
| Length         | medium        |
| Shape          | parallel      |

#### Awn

|                        |        |
|------------------------|--------|
| Length compared to ear | medium |
|------------------------|--------|

#### Rachis

|                            |                |
|----------------------------|----------------|
| Length of first segment    | medium         |
| Curvature of first segment | weak to medium |

#### Spikelet

|  |        |
|--|--------|
| Sterile spikelet - attitude                    | n/a    |
| Sterile spikelet - development                 | n/a    |
| Median spikelet - length of glume+awn cf grain | longer |

#### Grain

|                                     |                 |
|-------------------------------------|-----------------|
| Kernel - colour of aleurone layer   | weakly coloured |
| Husk - presence after harvest       | present         |
| Spiculation of inner lateral nerves | strong          |
| Rachilla hair type                  | long            |
| Ventral furrow - presence of hairs  | absent          |
| Disposition of lodicules            | clasping        |

#### Anthocyanin colouration

|                               |                |
|-------------------------------|----------------|
| Flag leaf - auricles          | weak to medium |
| Lemma nerves - at early dough | weak           |
| Awn tips                      | weak to medium |

#### Plant growth characters

|   |                   |
|---|-------------------|
| Plant - growth habit                    | intermediate      |
| Plant - length                          | long to very long |
| Lower leaf - hairiness of sheaths       | present           |
| Time of ear emergence                   | early to medium   |
| Flag leaf - glaucosity of sheath        | medium to strong  |
| Ear - glaucosity                        | medium            |
| Ear - attitude 21 days after ear emerg. | semi-erect        |

## WINTER BARLEY

AFP 2/2443

# SY VENTURE

### CHARACTERS IN DETAIL

#### Ear

|                |          |
|----------------|----------|
| Number of rows | two      |
| Density        | medium   |
| Length         | medium   |
| Shape          | tapering |

#### Awn

|                        |                           |
|------------------------|---------------------------|
| Length compared to ear | medium (+/- equal to ear) |
|------------------------|---------------------------|

#### Rachis

|                            |                  |
|----------------------------|------------------|
| Length of first segment    | medium           |
| Curvature of first segment | medium to strong |

#### Spikelet

|  |                                |
|--|--------------------------------|
| Sterile spikelet - attitude                    | n/a                            |
| Sterile spikelet - development                 | none or rudimentary(deficiens) |
| Median spikelet - length of glume+awn of grain | equal                          |

#### Grain

|                                     |                          |
|-------------------------------------|--------------------------|
| Kernel - colour of aleurone layer   | whitish ("white")        |
| Husk - presence after harvest       | present                  |
| Spiculation of inner lateral nerves | strong (5-10 per nerve)  |
| Rachilla hair type                  | long                     |
| Ventral furrow - presence of hairs  | absent                   |
| Disposition of lodicules            | clasping ("collar" type) |

#### Anthocyanin colouration

|                               |             |
|-------------------------------|-------------|
| Flag leaf - auricles          | strong      |
| Lemma nerves - at early dough | very strong |
| Awn tips                      | strong      |

#### Plant growth characters

|   |                                |
|---|--------------------------------|
| Plant - growth habit                    | intermediate to semi-prostrate |
| Plant - length                          | short                          |
| Lower leaf - hairiness of sheaths       | present                        |
| Time of ear emergence                   | medium                         |
| Flag leaf - glaucosity of sheath        | medium                         |
| Ear - glaucosity                        | medium                         |
| Ear - attitude 21 days after ear emerg. | erect to semi-erect            |

## WINTER BARLEY

AFP 2/2517

# TALISMAN

### CHARACTERS IN DETAIL

#### Ear

|                |                |
|----------------|----------------|
| Number of rows | two            |
| Density        | lax            |
| Length         | medium to long |
| Shape          | tapering       |

#### Awn

|                        |                          |
|------------------------|--------------------------|
| Length compared to ear | short (shorter than ear) |
|------------------------|--------------------------|

#### Rachis

|                            |                  |
|----------------------------|------------------|
| Length of first segment    | medium to long   |
| Curvature of first segment | medium to strong |

#### Spikelet

|  |                                |
|--|--------------------------------|
| Sterile spikelet - attitude                    | n/a                            |
| Sterile spikelet - development                 | none or rudimentary(deficiens) |
| Median spikelet - length of glume+awn of grain | equal                          |

#### Grain

|                                     |                          |
|-------------------------------------|--------------------------|
| Kernel - colour of aleurone layer   | whitish ("white")        |
| Husk - presence after harvest       | present                  |
| Spiculation of inner lateral nerves | weak (1-2 per nerve)     |
| Rachilla hair type                  | long                     |
| Ventral furrow - presence of hairs  | absent                   |
| Disposition of lodicules            | clasping ("collar" type) |

#### Anthocyanin colouration

|                               |        |
|-------------------------------|--------|
| Flag leaf - auricles          | strong |
| Lemma nerves - at early dough | strong |
| Awn tips                      | strong |

#### Plant growth characters

|   |                     |
|---|---------------------|
| Plant - growth habit                    | intermediate        |
| Plant - length                          | short to medium     |
| Lower leaf - hairiness of sheaths       | present             |
| Time of ear emergence                   | medium to late      |
| Flag leaf - glaucosity of sheath        | medium to strong    |
| Ear - glaucosity                        | weak to medium      |
| Ear - attitude 21 days after ear emerg. | erect to semi-erect |

## WINTER BARLEY

AFP 2/2602

# TETRIS

### CHARACTERS IN DETAIL

#### Ear

|                |          |
|----------------|----------|
| Number of rows | two      |
| Density        | lax      |
| Length         | long     |
| Shape          | tapering |

#### Awn

|                        |                          |
|------------------------|--------------------------|
| Length compared to ear | short (shorter than ear) |
|------------------------|--------------------------|

#### Rachis

|                            |                  |
|----------------------------|------------------|
| Length of first segment    | medium to long   |
| Curvature of first segment | medium to strong |

#### Spikelet

|  |                                |
|--|--------------------------------|
| Sterile spikelet - attitude                    | n/a                            |
| Sterile spikelet - development                 | none or rudimentary(deficiens) |
| Median spikelet - length of glume+awn of grain | equal                          |

#### Grain

|                                     |                                |
|-------------------------------------|--------------------------------|
| Kernel - colour of aleurone layer   | whitish ("white")              |
| Husk - presence after harvest       | present                        |
| Spiculation of inner lateral nerves | absent/v. weak (0-2 per nerve) |
| Rachilla hair type                  | long                           |
| Ventral furrow - presence of hairs  | absent                         |
| Disposition of lodicules            | clasping ("collar" type)       |

#### Anthocyanin colouration

|                               |                       |
|-------------------------------|-----------------------|
| Flag leaf - auricles          | weak to medium        |
| Lemma nerves - at early dough | strong to very strong |
| Awn tips                      | strong                |

#### Plant growth characters

|   |                 |
|---|-----------------|
| Plant - growth habit                    | semi-prostrate  |
| Plant - length                          | medium to long  |
| Lower leaf - hairiness of sheaths       | present         |
| Time of ear emergence                   | early to medium |
| Flag leaf - glaucosity of sheath        | medium          |
| Ear - glaucosity                        | medium          |
| Ear - attitude 21 days after ear emerg. | semi-erect      |

## WINTER BARLEY

AFP 2/2303

# WINSOME

### CHARACTERS IN DETAIL

#### Ear

|                |          |
|----------------|----------|
| Number of rows | two      |
| Density        | medium   |
| Length         | medium   |
| Shape          | parallel |

#### Awn

|                        |                           |
|------------------------|---------------------------|
| Length compared to ear | medium (+/- equal to ear) |
|------------------------|---------------------------|

#### Rachis

|                            |        |
|----------------------------|--------|
| Length of first segment    | medium |
| Curvature of first segment | strong |

#### Spikelet

|  |           |
|--|-----------|
| Sterile spikelet - attitude                    | divergent |
| Sterile spikelet - development                 | full      |
| Median spikelet - length of glume+awn of grain | equal     |

#### Grain

|                                     |                          |
|-------------------------------------|--------------------------|
| Kernel - colour of aleurone layer   | whitish ("white")        |
| Husk - presence after harvest       | present                  |
| Spiculation of inner lateral nerves | v. weak to weak          |
| Rachilla hair type                  | short                    |
| Ventral furrow - presence of hairs  | absent                   |
| Disposition of lodicules            | clasping ("collar" type) |

#### Anthocyanin colouration

|                               |                  |
|-------------------------------|------------------|
| Flag leaf - auricles          | weak to medium   |
| Lemma nerves - at early dough | medium to strong |
| Awn tips                      | strong           |

#### Plant growth characters

|   |                          |
|---|--------------------------|
| Plant - growth habit                    | semi-prostrate           |
| Plant - length                          | medium                   |
| Lower leaf - hairiness of sheaths       | present                  |
| Time of ear emergence                   | medium                   |
| Flag leaf - glaucosity of sheath        | strong                   |
| Ear - glaucosity                        | weak to medium           |
| Ear - attitude 21 days after ear emerg. | semi-erect to horizontal |



## WINTMALT

## CHARACTERS IN DETAIL

**Ear**

|                |                      |
|----------------|----------------------|
| Number of rows | two                  |
| Density        | medium               |
| Length         | medium to long       |
| Shape          | tapering to parallel |

**Awn**

|                        |                           |
|------------------------|---------------------------|
| Length compared to ear | medium (+/- equal to ear) |
|------------------------|---------------------------|

**Rachis**

|                            |        |
|----------------------------|--------|
| Length of first segment    | medium |
| Curvature of first segment | strong |

**Spikelet**

|  |                              |
|--|------------------------------|
| Sterile spikelet - attitude                    | parallel to weakly divergent |
| Sterile spikelet - development                 | full                         |
| Median spikelet - length of glume+awn of grain | equal                        |

**Grain**

|                                     |                          |
|-------------------------------------|--------------------------|
| Kernel - colour of aleurone layer   | weakly coloured          |
| Husk - presence after harvest       | present                  |
| Spiculation of inner lateral nerves | weak (1-2 per nerve)     |
| Rachilla hair type                  | short                    |
| Ventral furrow - presence of hairs  | absent                   |
| Disposition of lodicules            | clasping ("collar" type) |

**Anthocyanin colouration**

|                               |                     |
|-------------------------------|---------------------|
| Flag leaf - auricles          | absent to very weak |
| Lemma nerves - at early dough | absent or very weak |
| Awn tips                      | absent to very weak |

**Plant growth characters**

|   |                                |
|---|--------------------------------|
| Plant - growth habit                    | intermediate to semi-prostrate |
| Plant - length                          | short                          |
| Lower leaf - hairiness of sheaths       | present                        |
| Time of ear emergence                   | medium to late                 |
| Flag leaf - glaucosity of sheath        | strong                         |
| Ear - glaucosity                        | medium                         |
| Ear - attitude 21 days after ear emerg. | semi-erect                     |