

Small Grain Growth and Development

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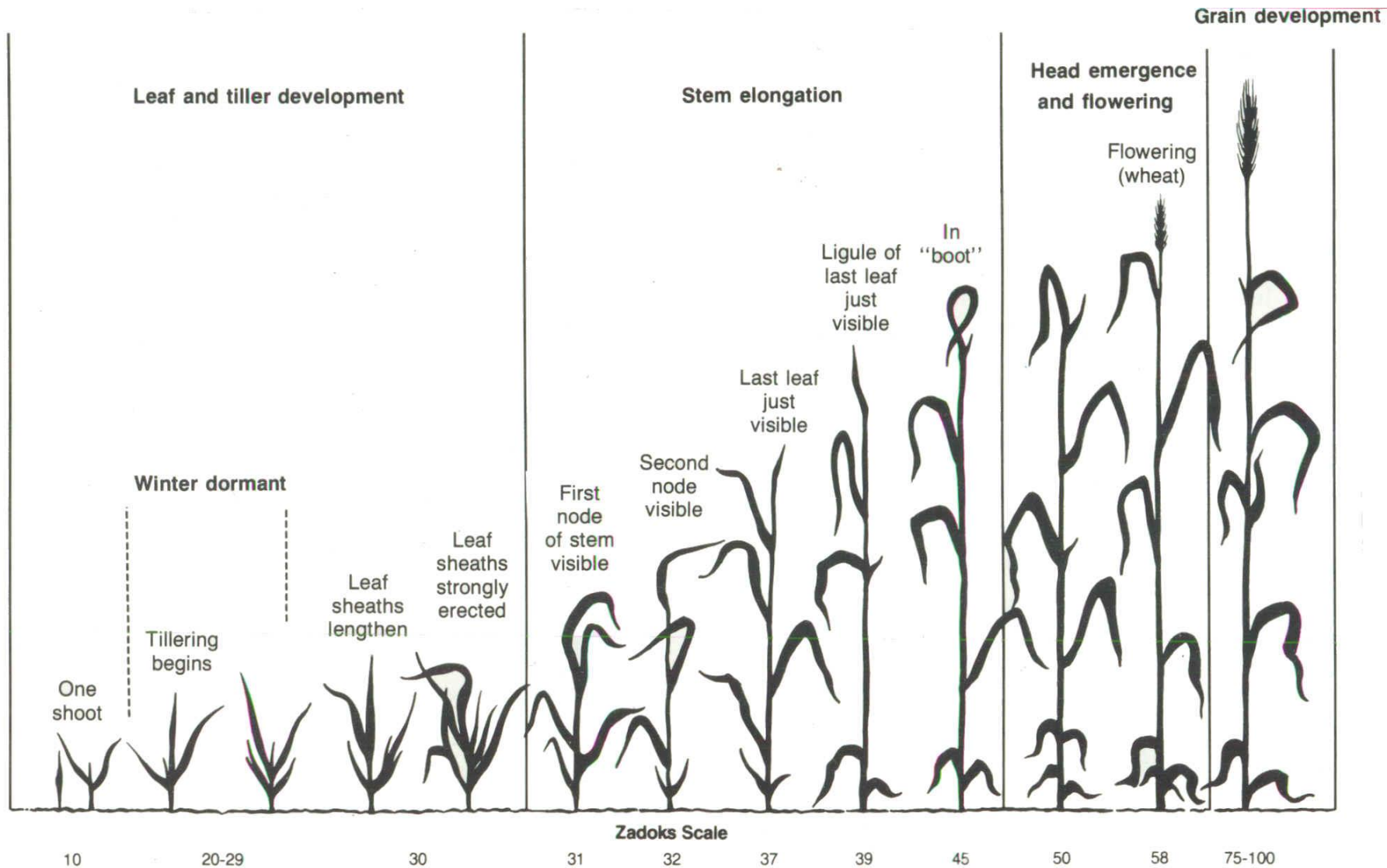
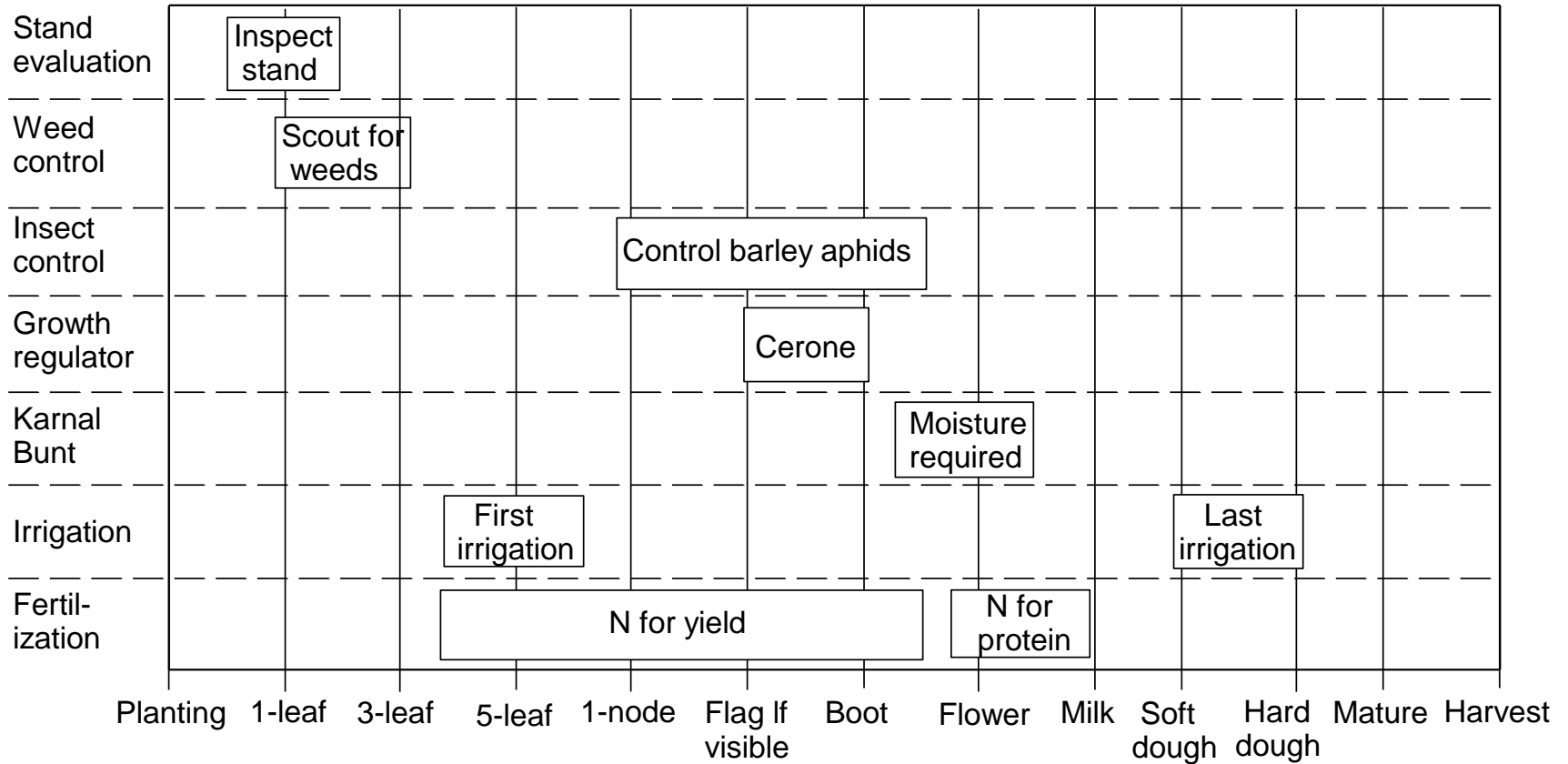
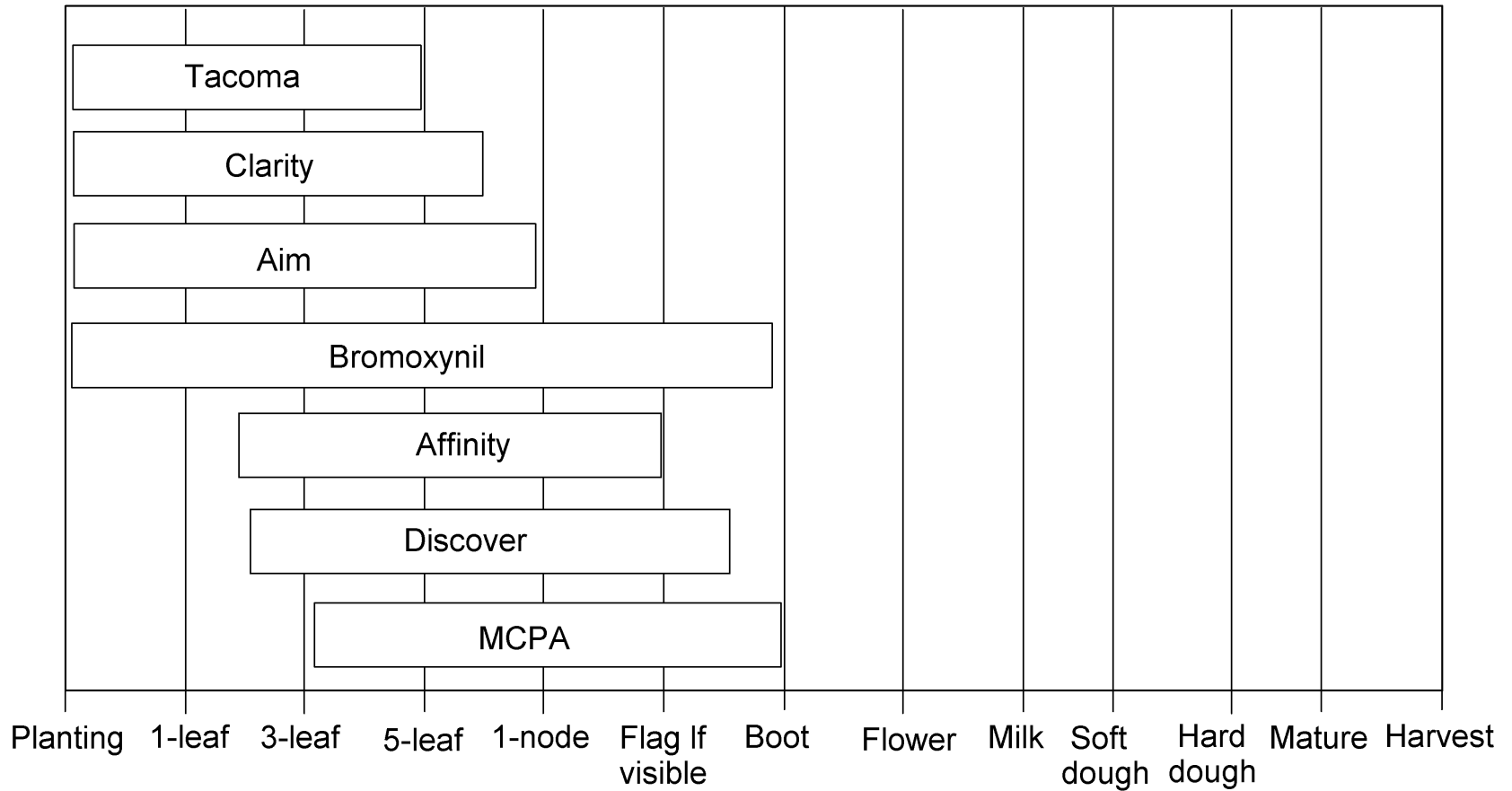


Fig. 2. Zadoks scale for cereal grain development.

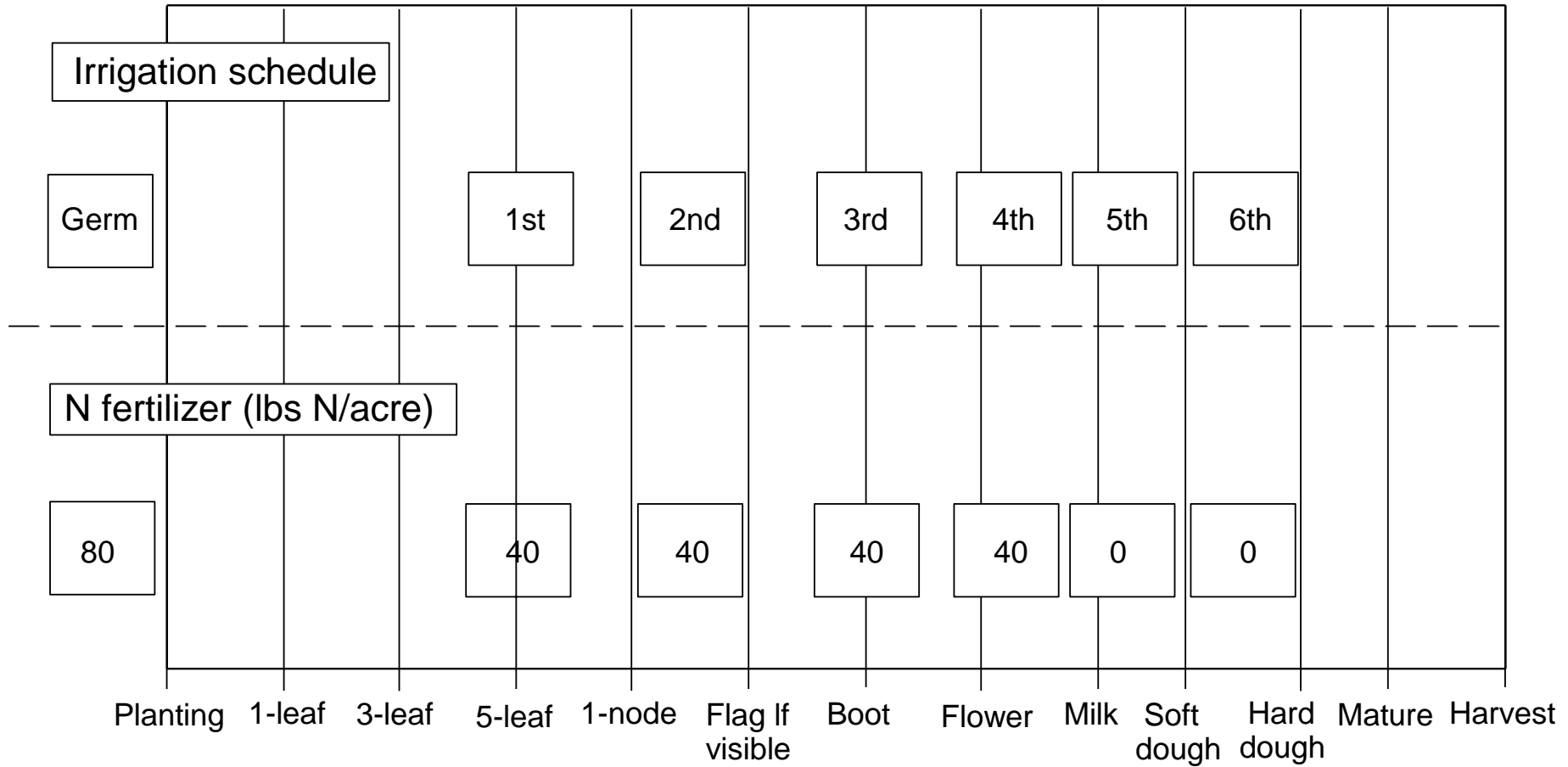
Timing of management operations



Herbicide timing



Fertilizer and irrigation schedule



A young plant with a single, upright, lanceolate leaf growing from dark, textured soil. The leaf is green and appears to be in the early stages of development. A blue rectangular label with white text is positioned in the upper left corner of the image.

1 leaf

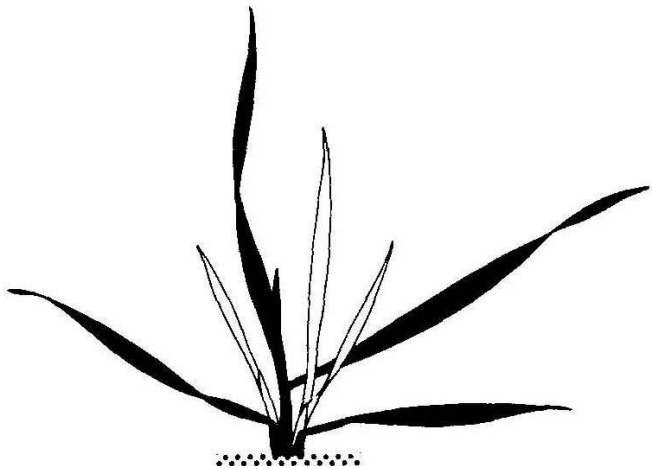
Photo: Mark Winfield, U. of Bristol, 2012

A young plant with two upright, lanceolate leaves growing from reddish-brown soil. The leaves are green and show some signs of growth. A blue rectangular label with white text is positioned in the upper left corner of the image.

2 leaf

Photo: Mark Winfield, U. of Bristol, 2012

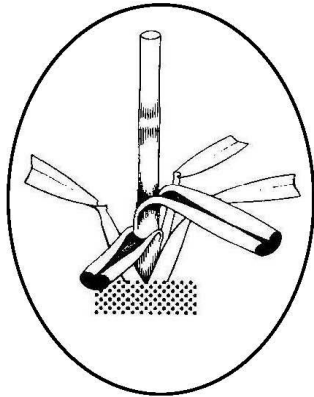
4 leaf



Drawing: Tottman, 1987. Ann. Appl. Biol. 110:441-454

Photo: Mike Ottman, U. of Arizona, 2012

1 node



Drawing: Tottman, 1987. Ann. Appl. Biol. 110:441-454

Photo: Mike Ottman, U. of Arizona, 2012

2 node



Flag leaf visible



Photo: Mark Winfield, U. of Bristol, 2012

Photo: Mark Winfield, U. of Bristol, 2012

Flag leaf collar visible



Boot

1cm



Photo: Mark Winfield, U. of Bristol, 2012



Heading

1cm

Photo: Mark Winfield, U. of Bristol, 2012



Flowering

Photo: Lackermann, U. of Wisconsin

Kernel watery



Photo: Mark Winfield, U. of Bristol, 201





Hard dough



Maturity

A close-up photograph of several golden wheat stalks. The wheat heads are in sharp focus, showing individual grains and the long, thin awns. The background is a soft, out-of-focus field of similar wheat. A blue rectangular box with rounded corners is positioned in the upper center of the image, containing the text "Harvest ripe" in white, bold, sans-serif font.

Harvest ripe

Photo: Bovidia.com, 2011