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**Figure 1.** Formation of frost on sugarcane leaves on July 24, 2013, with lowest recorded temperature -2.2°C (A); Apical meristem with large lesion (BUD score 1); on the left, and right: live bud without lesion (BUD score 5) (B); Detail of a plant (clump) with green leaves after frost (LVS score 4) (C); Resumption of growth in the apical meristem (BUD score 4) (D); Difference between the leaves of a genotype evaluated as LVS score 5 and a genotype with LVS score 2 (E); detail of a healthy apical bud, BUD score 5 (F).