
Dormancy And Resistance In Harsh Environments

winter survival, fall dormancy pest resistance ratings ... - winter survival, fall dormancy & pest resistance ratings for alfalfa varieties this publication is a listing of the winter survival, fall dormancy and pest resistance ratings of alfalfa varieties eligible for certification by seed certifying agencies. this publication does not list all important characteristics which should be considered ... **winter survival, fall dormancy & pest resistance ratings ...** - dormancy ratings exhibit less fall growth, while higher dormancy ratings indicate greater fall growth. fd ratings are indices assigned by comparing the height of fall growth with standard check varieties, and tested across locations and years to accurately represent dormancy response across environments. resistance ratings **fall dormancy: 7.0 highly resistant to aphids & nematodes ...** - lr = 6-14% resistance yield trial location trial years reported multi-year total tons per acre multi-year % of mean dos palos, ca 3 30.16 108% davis, ca 3 35.95 115% shafter, ca 5 44.82 104% the above table compares variety performance in locations with positive results relative to trial means. fall dormancy: 7.0 cuttings/season: 6+ pea aphid **seed dormancy in commercial vegetable and flower species** - exogenous dormancy is imposed by factors outside the embryo. these include maternal tissues (seed coat or pericarp) or mechanical resistance imposed on the radicle from the endosperm. endogenous dormancy is related to dormancy factors within the embryo. combinational dormancy includes a combination of exogenous and/or endogenous dormancy. **molecular mechanisms controlling dormancy and germination ...** - mancy. the factors that affect dormancy are classified into two broad categories, embryo- and seed coat imposed dormancy. a hard seed coat manifests its effect on dormancy by prevention of water uptake during imbibition (waxy or lignified tissues in legume seeds), mechanical molecular mechanisms controlling dormancy and germination in barley **selecting alfalfa products for fall dormancy and winter ...** - agronomic traits such as pest resistance, yield potential, quality, disease resistance, and other characteristics. the first criteria growers should use when selecting an alfalfa product, is to determine if the product is adapted to their region's climate (figure 1). selecting alfalfa products for fall dormancy and winter hardiness key points **mapping of qtl for pre-harvest sprouting resistance and ...** - resistance is strongly associated with grain color and seed dormancy. resistance to phs is a priority of wheat breeding program. we have studied a population of 122 doubled haploid (dh) lines from the cross between two cultivars, 'keumkang' and 'olgeuru', in order to detect qtls correlated with phs resistance. **the value of host plant resistance in alfalfa variety ...** - o pest resistance characteristics of these, yield is the most important economic factor. potential stand life and quality are influenced by genetic factors (fall dormancy, pest resistance) along with environmental conditions and management of the field (harvest, irrigation). other genetic improvements may benefit your production system or not. **lemmas induce dormancy but help the seed of ...** - the lower germination percentage caused by the seed dormancy of leymus chinensis has proved to be an obstacle for human use to restore deteriorated grasslands. previous studies have demonstrated that the mechanical resistance of the lemmas played a key role in the dormancy of leymus chinensis seeds. the lemmas offer a high mechanical resistance **resistance of citrus rootstocks to phytophthora ...** - plant disease 68:502-505. grafted on resistant sour orange stocks, show high incidence of infection in the resistance of 70 citrus genera, species, and cultivars to phytophthora citrophthora was eastern mediterranean area. this paper investigated during winter dormancy. **inheritance of seed dormancy in weedy rice - usda** - inheritance of seed dormancy in weedy rice xing-you gu, zong-xiang chen, and michael e. foley* abstract should provide new insight into seed dormancy and seed dormancy contributes to the adaptability of plants in nature resistance to preharvest sprouting. **alfalfa production - texas a&m university** - alfalfa fall dormancy ratings • trend away from using solely fall dormancy as a selection criteria - nmsu, osu, ksu don't list fd ratings directly in their reports • breeding more important than the fall dormancy • also, new winter survival (ws) ratings - e.g. fd 6 variety with a ws rating that makes the variety equivalent to fd in ... **maximizing the identification of qtl for pre-harvest ...** - grain development affect the expression of dormancy and pre-harvest sprouting resistance. under canadian conditions, depauw and mccaig (1991) compared various assays to measure sprouting resistance, seed dormancy and alpha-amylase activity, and their relative components of variation. they reported significant correlation among traits, and the ... **molecular mechanisms of seed dormancy** - and dormancy depend on the balance between the growth force of the elongating radicle and the resistance strength of the surrounding tissues (fig. 1c,d) activities of cell wall remodelling proteins influence the strength of the surrounding tissues (leubner-metzger 2005; endo et al. 2012), **different treatment of rice seed dormancy breaking ...** - essential first step towards effective utilization of rice germplasm. however, seed dormancy - a condition that temporarily suspends visible growth of meristem is one of the factors that hamper germination. in nature, dormancy can be an advantage for some species because it renders resistance to pre-harvest sprouting and

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