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(Hordeum vulgare L.)

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(Abde Mishani & Shahnefat Boushehri, 1997)

(1989) Acevedo & Ceccarelli

(Abde Mishani

& Shahnefat Boushehri, 1997; Ehdaei, 1993)

(1998) Gaspar et al.

(1995) Abay & Cahalan

G*E

(Arraudeau, 1989; Fisher

& Maurer, 1978)

(1996) Mitchell et al.

(1989) Edmeads et al.

(1997) Noaman et al.

(1972) Levitte

(Abde Mishani &

Shahnefat Boushehri, 1997; Rosielle & Hambelen,
1981)

(1997) Gavuzzi et al.

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(Gaspar et al., 1998)

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Mitchell et al. (1995) Abay & Cahalan

(1996) Petti

(1996)

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(Mitchell et al., 1996)

(1997) Noaman et al.

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(Rosielle & Hambelen, 1981; Yang et al., 1991)

(Arraudeau, 1989)

REFERENCES

1. Abay, F. & Cahalan, C. (1995). Evaluation of response of some barley landraces in drought prone sites of Tigray (Northern Ethiopia). *Crop Improvement*. 22 (2), 125-132.
2. Abde Mishani, S. & Shahnejat Boushehri, A. A. (1997). *Advanced plant breeding*. Vol. 2. University of Tehran Press. (In Farsi)
3. Acevedo, E. & Ceccarelli, S. (1989). Role of physiologist breeder in a breeding program for drought resistance conditions. In: Proceedings of *Drought resistance in cereals*, Baker, F.W.G.(Ed.). C. A. B. International, Walling Ford, PP: 117-139.
4. Araus, J. L., Slafer, G. A., Reynolds, M.P. & Royo, C. (2002). Plant breeding and drought in C3 cereals: What should we breed for? *Annals of Botany London*. 89, 925-940.
5. Arraudeau, M. A. (1989). Breeding strategies for drought resistance. In: Proceedings of Baker, F. W. G. (Ed.) *Drought resistance in cereals*. CAB International. 222P.
6. Edmeads, G. O., Bolanos, J. & Fisher, R. A. (1989). Traditional approaches to breeding for drought resistance in cereals. In: Proceedings of Baker, F. W. G. (Ed.). *Drought resistance in cereals* CAB International. PP: 27-52.
7. Ehdaei, B. (1993). Selection for drought tolerance in wheat. In: Proceedings of 1st *Agronomy and Plant Breeding Congress Proceeding*. University of Tehran, Karaj, Iran.
8. Fernandez, G. C. J. (1992). Effective selection criteria for assessing plant stress tolerance, In: Proceedings of the symposium. Taiwan, 13-16 Aug. 1992. By C. G. Kno. AVRDC.
9. Fisher, R. A. & Maurer, R. (1978). Drought resistance in spring wheat cultivars. I. Grain Yield Responses. *Aust J Agric Res*, 29, 897-912.
10. Gaspar, I., Zama, E. & Drobot, C. (1998). Modifications caused by weather stress in the morpho-productive elements of spring barley. *Cercetari Agronomice in Moldova*. 31 (1-2), 67-71.

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11. Gavuzzi, P., Rizza, F., Palumbo, M., Campanil, R. G., Ricciardi, G. L. & Borghi, B. (1997). Evaluation of field and laboratory predictors of drought and heat tolerance in winter cereals. *Cana J Plant Sci*, 77, 523-531.
 12. Levitte, J. (1972). *Responses of plants to environmental stresses*. New York: Academic press.
 13. Mitchell, J. H., Fukai, S. & Cooper, M. (1996). Influence of phenology on grain yield variation among barley cultivars grown under terminal drought. *Australian Journal of Agricultural Research*. 47 (5), 757-774.
 14. Noaman, M. M., Asaad, F. A., El-Sayed, A. A. & El-Bawab, A. M. O. (1997). Drought tolerant barley genotypes for rainfed areas in Egypt. *Egyptian Journal of Agricultural Research*, 75 (4), 1019-1036.
 15. Petti, R. (1996). Growth rates at low temperatures in barley (*Hordeum vulgare* L.) genotypes adapted to dry environments. *Annali della Facolta di Agraria Universita degli Studi di Perugia*. 48, 447-455.
 16. Rosielle, A. T. & Hambelen, J. (1981). Theoretical aspect of selection for yield in stress and non-stress environment. *Crop Sci*, 21, 433-437.
 17. Yang, R. C., Jana, S. & Clark, J. M. (1991). Phenotypic diversity and associations of some potentially drought-responsive characters in durum wheat. *Crop Sci*, 31, 1484-1491.

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