

left in the rice fields after rice harvest. However, research on soil management and seeding methods need to be emphasized to obtain insights on the practical use of straw mulching in wheat cultivation.

## 7. REFERENCES

- Aggarwal, P.K. 1988. Wheat production in Southeast Asia: Potential and Constraints. *Outlook on Agriculture*. 17:49-53
- Aggarwal, P.K., S.P. Liboon and R.A. Morris. 1987. A Review of wheat research at the International Rice Research Institute. IRPS. No.124. 11 p.
- Al-Khatib, K. and G.M. Paulsen. 1984. Mode of high temperature injury to wheat during grain development. *Physiologia Plantarum*. 61:363-368
- Angus, J.F. and M.W. Moncur. 1977. Water stress and phenology in wheat. *Australian Journal of Agricultural Research*. 28:177-181
- Bacon, P.E. and J.L. Cooper. 1985. Effect of rice stubble and nitrogen fertilizer management technique on yield of wheat sown after rice. *Field Crops Research*. 10:229-250
- Boatwright, G.O., H. Ferguson and J.R. Sims. 1976. Soil temperature around the crown node influences early growth, nutrient uptake and nutrient translocation of spring wheat. *Agronomy Journal*. 68:227-231
- Bremner, J.M. 1965. Total Nitrogen. *In* Method of soil analysis. Part 2 ed. C.A. Block. American Society of Agronomy Inc. Madison. pp.1149-1176
- Bristow, K.L. 1988. The role of mulch and its architecture in modifying soil temperature. *Australian Journal of Soil Research*. 26:269-280
- Chaudhary, T.N. and U.K. Chopra. 1983. Effects of soil covers on growth and yield of irrigated wheat planted at two dates. *Field Crops Research*. 6:293-304
- Day, A.D. and S. Intalap. 1970. Some effects of soil moisture stress on the growth of wheat (*Triticum aestivum* L. em Thell.). *Agronomy Journal*. 62:27-29

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- Day, A.D. and R.K. Thompson. 1975. Effects of soil moisture regimes on the growth of barley. *Agronomy Journal*. 67:430-433
- Ferrara, G.O., B.C. Curtis., D.A. Saunders and P.R. Hobbs. 1987. Wheat: a complementary crop for traditional rice growing countries of Asia. *In* Rice Farming System New Directions: Proceeding of the International Symposium. Rice Research and Training Center. Sakha, Egypt. pp.255-263
- Fischer, R.A. 1973. *In* R.O. Slatyer Ed. Plant Response to Climate Factors. United Nation Educational, Scientific and Cultural Organization, Paris. p. 233
- Fischer, R.A. 1984. Physiological limitations to producing wheat in semitropical and tropical environments. *In* Wheat for More Tropical Environments: A Proceeding of the International Symposium. September 24-28, 1984. Mexico, D.F. pp:209-230
- Fischer, R.A. and R. Maurer. O. 1976. Crop temperature modification and yield potential in dwarf spring wheat. *Crop Science*. 16:855-859
- Frank, A.B., A. Bauer and A.L. Black. 1987. Effects of air temperature and water stress on apex development in spring wheat. *Crop Science*. 27:113-116
- Frank, A.B., A. Bauer and A.L. Black. 1988. Effects of air temperature on head development in spring wheat. *North Dakota Farm Research*. 45:16-18
- Frank, A.B. and A. Bauer. 1982. Effect of temperature and fertilizer N on apex development in spring wheat. *Agronomy Journal*. 74:504-509
- Hang, A.N. and D.F. Miller. 1983. Wheat development as affected by deficit, high frequency sprinkler irrigation. *Agronomy Journal*. 75:234-238
- Hanviriyapant, P., T. Panyakaew and S. Pintasen 1990. Study on planting methods for zero tillage and minimum tillage. Mimeo Report.
- Hochman, Z. 1982. Effect of water stress with phasic development on yield of wheat grown in semi-arid environment. *Field Crops Research*. 5:55-67
- Johnson, R.C. and E.T. Kanemasu. 1983. Yield and development of winter wheat at elevated temperatures. *Agronomy Journal*. 75:561-565
- Jongdee, B. and S. Limpiti. 1987. Wheat cultivation after rice under different tillage and planting methods. *In* 1987/88 Wheat Research and Development Workshop. August 13-15, 1987. Khon Kaen, Thailand. pp: 280-297
- Kayanto, A. and G.M. Paulsen. 1990. Photosynthate partitioning by shoots and roots of wheat during high temperature stress. *Agronomy Abstracts*. *In* 1990 Annual Meetings. American Society of Agronomy. Crop Science Society of America. Soil Science Society of America. San Antonio, Texas.

- Khera, K.L., R. Khera.,S.S. Prihar., B.S. Sandhu and K.S. Sandhu. 1976. Mulch, nitrogen and irrigation effects on growth, yield and nutrient uptake of forage corn. *Agronomy Journal*. 68:937-941
- Kuroyanagi, T. and G.M. Paulsen. 1988. Mediation of high temperature injury by roots and shoots during reproductive growth of wheat. *Plant Cell and Environment*. 11:517-523
- Lafond, G.P. and R.J. Baker. 1986. Effects of temperature, moisture stress and seed size on germination of nine spring wheat cultivars. *Crop Science*. 26:563-567
- Meechoui, S. 1987. The effect of land preparation on wheat growth. *In* 1986/87 Annual Report. ARTC. Ministry of Education, Thailand. pp.1-6
- Meechoui, S. 1985. Effects of planting date and water stress on wheat (cv. Inia 66) growth and yield. M. Sc. Thesis. Chiang Mai University.
- Midmore, D.J., P.M. Cartwright and R.A. Fisher. 1982. Wheat in tropical environments. I. Phasic development and spike size. *Field Crops Research*. 5:185-200
- Musick, J.T. and D.A. Dusek. 1980. Planting dates and water deficits on development and yield of irrigated winter wheat. *Agronomy Journal*. 72:45-52
- Rawson, H.M. 1986. High-temperature tolerant wheat: A description of variation and a search for some limitations to productivity. *Field Crops Research*. 14:197-212
- Rawson, H.M. 1987. Effects of temperatures on the development and yield of wheat and practices to reduced deleterious effects. *In* Wheat Production Constraints in Tropical Environments. A Proceeding of the International Conference. January 19-23, 1987. Chiang Mai, Thailand. pp:44-62
- Rerkasem, K. and B. Rerkasem. 1984. Wheat in rice-based cropping system in Thailand. *In* Wheats for More Tropical Environments: A Proceeding of the International Symposium. September 24-28, 1984. Mexico, D.F. pp:256-277
- Sandhu, B.S. and M.L. Horton. 1977. Response of Oat to water deficit. *Agronomy Journal*. 69:357-364
- Saunders, D.A. 1987. Characterization of tropical wheat environments: Identification of production constraints in tropical environments; South and Southeast Asia. *In* Wheat Production Constraints in Tropical Environments: A Proceeding of the International Conference. January 19-23, 1987. Chiang Mai, Thailand. pp.12-26

- Shpiler, L. and A. Blum. 1986. Differential reaction of wheat cultivars to hot environments. *Euphytica*. 35:483-492
- Sojka, R.E., L.H. Stolzy and M.R. Kaufmann. 1975. Wheat growth related to rhizosphere temperature and oxygen levels. *Agronomy Journal*. 67:591-595
- Tripathi, R.P., A.K. Singh and R.K. Mishra. 1985. Effects of mulch-induced soil thermal regime on wheat emergence. *Field Crops Research*. 10:305-313
- Wardlaw, I.F., I.A. Dawson., P. Munibi and R. Fewster. 1989. The tolerant of wheat to high temperatures during reproductive growth. *Australian Journal of Agricultural Research*. 40:1-24
- Wiegand, C.L. and J.A. Cuellar. 1981. Duration of grain filling and kernel weight of wheat as affected by temperature. *Crop Science*. 21:95-101
- Wivutvongvana, P., M. Ekasingh, J. Puangmanee, T. Klodpeng, M. Nikornpun and P. Lumyong. 1991. Influence of mulching, application method of irrigation and nitrogen on vegetable production. In *International Workshop on Vegetable Production Through the Use of Fertilizer, Mulching and Irrigation Systems*. Chiang Mai, Thailand. January 22-24, 1991
- Youngsuk, P. and S. Hawmdawk. 1987. Effect of irrigation frequency on growth and yield of wheat in paddy field. In *1987/88 Wheat Research and Development Workshop*. Khon Khaen, Thailand. pp.311-320
- Zadoks, J.C., T.T. Chang and C.F. Konzak. 1974. A decimal code for the growth stage of cereals. *Weed Research*. 14:415-421