

REFERENCES

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BOOK REVIEW

POSPÍŠILOVÁ, J., SOLÁŘOVÁ, J. (ed.): *WATER IN PLANTS BIBLIOGRAPHY*. VOL. 8, 1982. References 9677–11192 (ABD–ZYA). — Dr. W. Junk b. v. Publishers, The Hague–Boston–Lancaster 1983. Dfl. 110.00.

There appeared a large number of publications dealing with the water relations in plants. Water has some essential functions within the cells (*e.g.* raw material for biochemical reactions, main solvent for most of the substances of the living cell, main component of cell turgidity) and within the whole plant (*e.g.* translocation of substances). Plant-water status depends on the pattern of water exchange with its surroundings, and on the water flux occurring within the soil-plant-atmosphere continuum. The recently published papers show an increasing interest of scientists in different problems of water potential, osmoregulation *etc.* On the other hand, more and more papers were published during the last year on the ability of plants to resist the undesirable effects of water deficit within the plants. Other problems, like flooding and frost resistance, are under intensive investigation.

A detailed Subject index enables the reader of the "Water-in-Plant Bibliography" to look for special problems of interest. This is easily done with the use of a high number of items, both individual key words and precoordinated combinations of them. Full references are given in an alphabetic order according to authors' names and denoted by numerals. The bibliography involves more than 1500 papers published in important scientific periodicals and books. Additional articles which appeared in local journals, mimeographed booklets, *etc.* were chosen from reprints received directly from the authors. Besides the Subject index the bibliography is provided by two other indexes: Authors' index and Plant index. The Authors' index contains all names of authors, co-authors and editors, the Plant index is arranged according to their Latin Names.

Unfortunately, 8 pages of the review copy are blank, so that 128 references are missing.

All those interested in any of the problems of plant-water relations will find this bibliography of great interest and assistance. Using this bibliography the scientific workers will highly appreciate the careful and meticulous work of the editors and some other co-workers of the Institute of Experimental Botany of the Czechoslovak Academy of Sciences, Praha.

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