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**REFERENCES**

- ADRIANO D.C., FULENWIDER A., SHARITZ R.R., CIRAVOLO T.G. and HOYT D.D., 1980: Growth and mineral nutrition of cattail (*Typha*) as influenced by thermal alteration. *Environ.Qual.* **9**, 649-653.
- ADRIANO D.C., SHARITZ R.R., CIRAVOLO T.G., LUVALL J.C. and HARDING S.A., 1984: Growth and mineral nutrition of cattails inhabiting a thermally graded South Carolina reservoir. II. The micronutrients. *Plant Nutrition* **7(12)**, 1699-1716.
- BARSDATE R.J. and PRENTKI R.T., 1973: Nutrient metabolism and water chemistry in lakes and ponds of the arctic coastal tundra. U.S. Tundra Biome Data Rep., 7-27.
- BEAUCHAMP S. and KEREKES J.J., 1980: Comparative changes in water chemistry within impounded and natural freshwater marshes in three maritime wetlands. Canadian Wildlife Service, Ottawa. Vol. **1**, 110 pp.; vol. **2**, 192 pp.
- BERNARD J.M. and BERNARD F.A., 1973: Winter biomass in *Typha glauca* Godr. and *Sparganium eurycarpum* Engelm. *Bull.Torr.Bot.Club* **100**, 125-131.
- BERNARD J.M. and FITZ M.L., 1979: Seasonal changes in aboveground primary production and nutrient contents in a central New York *Typha glauca* ecosystem. *Bull.Torr.Bot.Club* **106**, 37-40.
- BERNARD J.M. and HANKINSON G., 1979: Seasonal changes in standing crop, primary production, and nutrient levels in a *Carex rostrata* wetland. *Oikos* **32**, 328-336.
- BERNARD J.M. and SOLSKY B.A., 1977: Nutrient cycling in a *Carex lacustris* wetland. *Can.J.Bot.* **55**, 630-638.
- BEULE J.D., 1979: Control and management of cattails in southeastern Wisconsin wetlands. Dept.Natural Res.,Madison Wisconsin.Tech.Bull. **112**, 39 pp.
- BLISS J.C., COURTIN G.M., PATTIE D.L., RIEWE R.R., WHITFIELD D.W.A. and WIDDEN P., 1973: Arctic tundra ecosystems. *Ann.Rev.Ecol.Syst.* **4**, 359-399.
- BORNKAMM R. and RAGHI-ATRI F., 1978: Wachstum und Inhaltsstoffe von Schilf bei abgestuften Gaben von Stickstoff, Phosphor und Bor. *Verh. Ges.Oekologie,Kiel(1977)*. 361-367.
- BORNKAMM R., OVERDIECK D. and RAGHI-ATRI F., 1979: Verhalten von Schilf unter kontrollierten Nährstoffbedingungen. *Schriftenr.Ver.Wasser-, Boden- u. Lufthygiene* **48**, 99-122.
- BORNKAMM R., RAGHI-ATRI F. and KOCH M., 1980: Effects of eutrophication on *Phragmites australis*. *Garten u. Landschaft* **1**, 15-19.
- BOYD C.E., 1970: Losses of mineral nutrients during decomposition of *Typha latifolia*. *Arch.Hydrobiol.* **66**, 511-517.
- BOYD C.E., 1971: Further studies on productivity, nutrient and pigment relationships in *Typha latifolia* populations. *Bull.Torr.Bot.Club* **98**, 144-150.
- BOYD C.E. and HESS L.W., 1970: Factors influencing shoot production and mineral nutrient levels in *Typha latifolia*. *Ecology* **51**, 296-300.
- BRAY J.R., 1962: Estimates of energy budgets for a *Typha* (cattail) marsh. *Science* **136**, 1119-1120.
- BRAY J.R., LAWRENCE D.W. and PEARSON L.C., 1959: Primary production in some Minnesota terrestrial communities. *Oikos* **10**, 38-49.
- BRINSON M.M., LUGO A.E. and BROWN S., 1981: Primary productivity, decomposition and consumer activity in freshwater wetlands. *Ann.Rev.Ecol. Syst.* **12**, 123-161.

- BROWN R.J.E., 1983: Effects of fire on permafrost ground thermal regime. In: WEIN R.W. and MacLEAN D.A. (eds.), The role of fire in northern circumpolar ecosystems. SCOPE (Wiley, Chichester) **18**, 97-110.
- BURTON G.W., 1944: Seed production of several southern grasses as influenced by burning and fertilization. Am.Soc.Agron.J. **36**, 523-529.
- CARGILL S.M. and JEFFERIES R.L., 1984: Nutrient limitation of primary production in a sub-arctic salt marsh. J.Appl.Ecology **21**, 657-668.
- CHANDLER C., CHENEY P., THOMAS P., TRABAUD L. and WILLIAMS D., 1983: Fire in forestry. Vol. 1. Forest fire behaviour and effects. Wiley, New York. 450 pp.
- CHAPIN F.S. III, 1978: Phosphate uptake and nutrient utilization by Barrow tundra vegetation. IN: TIESZEN L.L. (ed.), Vegetation and production ecology of an alaskan arctic tundra. Springer, New York. 483-508.
- CHAPIN F.S. III, 1980: Mineral nutrition of wild plants. Ann.Rev.Ecol. Syst. **11**, 233-260.
- CHAPIN F.S. III, VAN CLEVE K. and TIESZEN L.L., 1975: Seasonal nutrient dynamics of tundra vegetation at Barrow, Alaska. Arctic and Alpine Res. **7**, 209-226.
- CHAPMAN H.D., 1966: Diagnostic criteria for plants and soils. Univ. of California, Div.Agric.Sci., Riverside. 793 pp.
- DAUBENMIRE R., 1968: Ecology of fire in grassland. Adv.Ecol.Res. **5**, 209-266.
- DAVIDSON R.L., 1969: Effects of soil nutrients and moisture on root-shoot ratios in *Lolium perenne* L. and *Trifolium repens* L. Ann.Bot. n.s. **33**, 570-577.
- DAVIS C.B. and VAN DER VALK A.G., 1978a: Litter decomposition in prairie glacial marshes. In: GOOD R.E., WHIGHAM D.F. and SIMPSON R.L. (eds.), Freshwater wetlands: Ecological processes and management potential. Acad.Press, New York. 99-113.
- DAVIS C.B. and VAN DER VALK A.G., 1978b: The decomposition of standing and fallen litter of *Typha glauca* and *Scirpus fluviatilis*. Can.J.Bot. **56**, 662-675.
- DEBANO L.F., EBERLEIN G.E. and DUNN P.H., 1979: Effects of burning on chaparral soils: I. Soil nitrogen. Soil Sci.Soc.Am.J. **43**, 504-509.
- DOWDING P., 1981: The effects of artificial drainage on nitrogen cycle processes. In: CLARK F.E. and ROSSWALL T. (eds.), Terrestrial nitrogen cycles. Ecol.Bull.(Stockholm) **33**, 615-625.
- DYKYJOVA D., 1971: Productivity and solar energy conversion in reedswamp stands in comparison with outdoor mass cultures of algae in the temperate climate of central Europe. Photosynthetica **5**, 329-340.
- DYKYJOVA D., 1978: Nutrient uptake by littoral communities of helophytes. In: DYKYJOVA D. and KVET J. (eds.), Pond littoral ecosystems: Structure and functioning. Ecol.Studies (Springer, Berlin) **28**, 257-277.
- ENVIRONMENT CANADA, 1975: Canadian normals 1941-1970. Atmospheric Environment Service, Environment Canada, Toronto, Ontario. Vol. 1, Temperature, 306 pp.; Vol. 2, Precipitation, 602 pp.
- ENWEZOR O.W., 1976: The mineralization of nitrogen and phosphorus in organic materials of varying C : N and C : P ratios. Plant and Soil, **44**, 237-240.
- FEDERER W.T., 1955: Experimental design. Macmillan, New York. 544 pp.
- FOWELLS H.A. and STEPHENSON R.E., 1934: The effect of burning on forest soils. Soil Sci. **38**, 175-181.
- GODSHALK G.L. and WETZEL R.G., 1978a: Decomposition in the littoral zone of lakes. In: GOOD R.E., WHIGHAM D.F. and SIMPSON R.L. (eds.), Fresh-

- water wetlands: Ecological processes and management potential. Acad. Press, New York. 131-143.
- GODSHALK G.L. and WETZEL R.G., 1978b: Decomposition of aquatic angiosperms: I. Dissolved components, II. Particulate components, III. *Zostera marina* L. and a conceptual model of decomposition. *Aquat.Bot.* **5**, 281-300, 301-327, 329-354.
- GREGORY F.G., 1937: Mineral nutrition of plants. *Ann.Rev.Biochem.* **6**, 557-578.
- GUSTAFSON T.D., 1976: Production, photosynthesis, and the storage and utilization of reserves in a natural stand of *Typha latifolia* L. Ph.D. thesis, Univ. of Wisconsin, Madison. 102 pp.
- HASLAM S.M., 1970: The performance of *Phragmites communis* Trin. in relation to water supply. *Ann.Bot.* **34**, 867-877.
- HASLAM S.M., 1971a: Shoot height and density in *Phragmites* stands. *Hidrobiol.* **12**, 113-119.
- HASLAM S.M., 1971b: Community regulation in *Phragmites communis* Trin. I. Monodominant stands. *J.Ecol.* **59**, 65-73.
- HASLAM S.M., 1971c: Community regulation in *Phragmites communis* Trin. II. Mixed stands. *J.Ecol.* **59**, 75-88.
- HAYNES R.J., 1984: Lime and phosphate in the soil-plant system. *Adv. Agron.* **37**, 249-306.
- HEILMAN P.E., 1966: Changes in distribution and availability of nitrogen with forest succession on northern slopes in interior Alaska. *Ecology* **47**, 826-831.
- HEINSELMANN M.L., 1975: Boreal peatlands in relation to environment. In: HASLER A.D. (ed.), *Coupling of land and water systems*. Springer, New York. 99-103.
- HERMAN W.H., MCGILL W.B. and DORMAAR J.F., 1977: Effect of initial chemical composition on decomposition of roots of three grass species. *Can.J.Soil Sci.* **57**, 205-215.
- HEWITT E.J. and SMITH T.A., 1974: *Plant mineral nutrition*. The English Univ. Press Ltd., London. 298 pp.
- HODKINSON I.D., 1975: Dry weight loss and chemical changes in vascular plant litter of terrestrial origin, occurring in a beaver pond ecosystem. *J.Ecol.* **63**, 131-142.
- HOFSTEN B.V. and EDBERG N., 1972: Estimating the rate of degradation of cellulose fibres in water. *Oikos* **23**, 29-34.
- HOGG E.H. and WEIN R.W., 1987: Growth dynamics of *Typha* mats: seasonal translocation and internal deposition of organic material. *Oikos* **50**, 197-205.
- HOGG E.H. and WEIN R.W., 1988a: Seasonal change in gas content and buoyancy of floating *Typha* mats. *J.Ecol.* **76**, 1055-1068.
- HOGG E.H. and WEIN R.W., 1988b: The contribution of *Typha* components to floating mat buoyancy. *Ecology* **69**, 1025-1031.
- HOPKINSON C.S. and SCHUBAUER J.P., 1984: Static and dynamic aspects of nutrient cycling in the salt marsh graminoid *Spartina alterniflora* Loisel. *Ecology* **65**, 961-969.
- HOWES B.L., HOWARTH R.W., TEAL J.M. and VALIELA I., 1981: Oxidation-reduction potentials in a salt marsh: spatial pattern and interactions with primary production. *Limnol.Oceanogr.* **26**, 350-360.
- HUNT H.W., 1977: A simulation model for decomposition in grasslands. *Ecology* **58**, 469-484.
- HUNT R., 1975: Further observations on root-shoot equilibria in perennial ryegrass (*Lolium perenne* L.). *Ann.Bot., n.s.* **39**, 745-755.
- JARVIS R.A., 1969: Primary production in the freshwater marsh ecosystem of Troy Meadows, New Jersey. *Bull.Torr.Bot.Club.* **96**, 209-231.

- JONES R.J.A. and COURT M.N., 1980: The measurement of mean temperatures in plant and soil studies by the sucrose-inversion method. *Plant and Soil* **54**, 15-31.
- KADLEC R.H., 1980: Wetlands for tertiary treatment. In: GREESON P.E., CLARK J.R. and CLARK J.E. (eds.), *Wetland function and values: The state of our understanding*. Am.Water Res.Assoc., Minneapolis. 490-504.
- KLOPATEK J.M., 1975: The role of emergent macrophytes in mineral cycling in a freshwater marsh. In: HOWELL F.G., GENTRY J.B. and SMITH M.H. (eds.), *Mineral cycling in southeastern ecosystems*. ERDA Symposium Series (Conf 740513), NTIS, Department of Commerce, Springfield, Va. 367-393.
- KLOPATEK J.M., 1978: Nutrient dynamics of freshwater riverine marshes and the role of emergent macrophytes. In: GOOD R.E., WHIGHAM D.F. and SIMPSON R.L. (eds.), *Freshwater wetlands: Ecological processes and management potential*. Acad. Press, New York. 195-217.
- KRÜSI B.O. and WEIN R.W., 1982: The effects of draining, burning and fertilizing on the microclimate in a *Typha*-dominated freshwater marsh. In: WEIN R.W. and KRÜSI B.O. (eds.), *A report on the second year of the Tintamarre marsh fire ecology study*. Unpubl. Report, Fire Science Centre, Univ. of New Brunswick, Fredericton, Canada. 46-51.
- KRÜSI B.O. and WEIN R.W., 1988: Experimental studies on the resiliency of floating *Typha* mats in a freshwater marsh. *J.Ecol.* **76**, 60-72
- KUCERA C.L., DAHLMAN R. and KOELLING M., 1967: Total net productivity and turnover on an energy basis for tallgrass prairie. *Ecology* **48**, 536-541.
- LAKSHMINARAYANA J.S.S. and RIOUX P., 1982: Water quality and primary production after draining and burning treatments. In: WEIN R.W. and KRÜSI B.O. (eds.), *A report on the second year of the Tintamarre marsh fire ecology study*. Unpubl. Report, Fire Science Centre, Univ. of New Brunswick, Fredericton, Canada. 37-45.
- LEE J.A., HARMER R. and IGNACIUK R., 1983: Nitrogen as limiting factor in plant communities. In: LEE J.A., McNEILL S. and RORISON I.H. (eds.), *Nitrogen as an ecological factor*. Blackwell Sci.Publ., Oxford. 95-112.
- LEE R., 1969: Chemical temperature integration. *J.Appl.Meteorol.* **8**, 423-430.
- LINTHURST R.A., 1979: The effect of aeration on the growth of *Spartina alterniflora* Loisel. *Am.J.Bot.* **66**, 685-691.
- LINTHURST R.A., 1980: A growth comparison of *Spartina alterniflora* Loisel. ecospheres under aerobic and anaerobic conditions. *Am.J.Bot.* **67**, 883-887.
- LLOYD P.S., 1971: Effects of fire on the chemical status of herbaceous communities of the Derbyshire Dales. *J.Ecol.* **59**, 261-273.
- MacLEAN D.A., WOODLEY S.J., WEBER M.G. and Wein R.W., 1983: Fire and nutrient cycling. In: WEIN R.W. and MacLEAN D.A. (eds.), *The role of fire in northern circumpolar ecosystems*. SCOPE (Wiley, Chichester) **18**, 111-132.
- MCCOWN B.H., 1973: The influence of soil temperature on plant growth and survival in Alaska. *Proc.Symp. on Oil Resource Development and its Impact on Northern Plant Communities*. Occasional Publication on Northern Life, Univ. of Alaska, **1**, 12-33.
- MCCOWN B.H., 1978: The interactions of organic nutrients, soil nitrogen and soil temperature and plant growth and survival in the arctic environment. In: TIESZEN L.L. (ed.), *Vegetation and production ecology of an Alaskan arctic tundra*. Springer, New York. 435-456.
- MCGILL W.B., HUNT H.W., WOODMANSEE R.G. and REUSS J.O., 1981: Phoenix, a

- model of the dynamics of carbon and nitrogen in grassland soils. In: CLARK F.E. and ROSSWALL R. (eds.), Terrestrial nitrogen cycles. Ecol. Bull.(Stockholm) **33**, 49-115.
- McNAUGHTON S.J., 1966: Ecotype function in the Typha community type. Ecol.Monogr. **36**, 297-325.
- MEI H.S. and THIMANN K.V., 1984: The relation between nitrogen deficiency and leaf senescence. Physiol.Plant. **62**, 157-161.
- MENDELSSOHN I.A., McKEE K.L. and POSTEK M.T., 1982: Sublethal stresses controlling Spartina alterniflora productivity. In: GOPAL B., TURNER R.E., WETZEL R.G. and WHIGHAM D.F. (eds.), Wetlands: Ecology and management. Nat.Inst.Ecol.Intern.Sci.Publ.,Jaipur,India. 223-242.
- MENGEL K. and KIRKBY E.A., 1978: Principles of plant nutrition. Intern. Potash Institute, Berne, Switzerland. 593 pp.
- MOOK J.H. and VAN DER TOORN J., 1982: The influence of environmental factors and management on stands of Phragmites australis: II. Effects on yield and its relationship with shoot density. J.Appl.Ecol. **19**, 501-517.
- MOOK J.H. and VAN DER TOORN J., 1985: Delayed response of common reed (Phragmites australis) to herbivory as a cause of cyclic fluctuations in the density of the moth Archanara geminipuncta. Oikos **44**, 142-148.
- MOONEY H.A., 1972: The carbon balance of plants. Ann.Rev.Ecol.Syst. **3**, 315-346.
- MORRIS J.T., 1980: The nitrogen kinetics of Spartina alterniflora in culture. Ecology **61**, 1114-1121.
- MORRIS J.T., 1982: A model of growth responses by Spartina alterniflora to nitrogen limitation. J.Ecol. **70**, 25-42.
- NIELSEN K.F., 1971: Roots and root temperature. In: CARSON E.W. (ed.), The plant root and its environment. Univ.Press of Virginia, Charlottesville. 293-333.
- PAUL R.W., BENFIELD E.F. and CAIRNS J., 1978: Effects of thermal discharges on leaf decomposition in a river ecosystem. Verh.Intern.Ver. Angew.Theor.Limnol. **20**, 1759-1766.
- POLUNIN N.V.C., 1982: Processes contributing to the decay of reed (Phragmites australis) litter in fresh water. Arch.Hydrobiol. **94**, 182-209.
- POLUNIN N.V.C., 1984: The decomposition of emergent macrophytes in fresh water. Acad.Press, New York. Adv.Ecol.Res. **14**, 115-166.
- PRENTKI R.T., GUSTAFSON T.D. and ADAMS M.S., 1978: Nutrient movement in lakeshore marshes. In: GOOD R.E., WHIGHAM D.F. and SIMPSON R.L. (eds.), Freshwater wetlands: Ecological processes and management potential. Acad.Press, New York. 169-194.
- RAGHI-ATRI F. and BORNKAMM R., 1980: Ueber Halmfestigkeit von Schilf (Phragmites australis) bei unterschiedlicher Nährstoffversorgung. Arch.Hydrobiol. **90**, 90-105.
- RAISON R.J., 1979: Modification of the soil environment by vegetation fires, with particular reference to nitrogen transformations: a review. Plant and Soil **51**, 73-108.
- RICHARDSON C.J., TILTON D.L., KADLEC J.A., CHAMIE J.P.M. and WENTZ W.A., 1978: Nutrient dynamics of northern wetland ecosystems. In: GOOD R.E., WHIGHAM D.F. and SIMPSON R.L. (eds.), Freshwater wetlands: Ecological processes and management potential. Acad.Press, New York. 217-241.
- ROWE J.S. and SCOTTER G.W., 1973: Fire in the boreal forest. Quater.Res. **3**, 444-464.
- S.A.S. INSTITUTE, 1982: Statistical analysis systems user's guide: Statistics. S.A.S. Institute Inc., Cary, North Carolina. 584 pp.

- SHARITZ R.R., ADRIANO D.C., PINDER J.E., LUVALL J.C. and CIRAVOLO T.G., 1984: Growth and mineral nutrition of cattails inhabiting a thermally-graded South Carolina reservoir. I. Growth and the macronutrients. *Plant Nutrition* **7(12)**, 1671-1698.
- SHARMA K.P. and GOPAL B., 1982: Decomposition and nutrient dynamics in *Typha elephantina* Roxb. under different water regimes. In: GOPAL B., TURNER R.E., WETZEL R.G. and WHIGHAM D.F. (eds.), *Wetlands: Ecology and management*. Nat.Inst.Ecol.Intern.Sci.Publ., Jaipur, India. 321-334.
- SHAVER G.R. and BILLINGS W.D., 1975: Root production and root turnover in a wet tundra ecosystem, Barrow, Alaska. *Ecology* **56**, 401-409.
- SHAVER G.R. and MELILLO J.M., 1984: Nutrient budgets of marsh plants: Efficiency concepts and relation to availability. *Ecology* **65**, 1491-1510.
- SKUHRAVY V., 1978: Invertebrates: Destroyers of common reed. In: DYKYJOVA D. and KVET J. (eds.), *Pond littoral ecosystems: Structure and functioning*. Ecol.Studies (Springer, Berlin) **28**, 376-388.
- SLOEY W.E., SPANGLER F.L. and FETTER C.W., 1978: Management of freshwater wetlands for nutrient assimilation. In: GOOD R.E., WHIGHAM D.F. and SIMPSON R.L. (eds.), *Freshwater wetlands: Ecological processes and management potential*. Acad.Press, New York. 321-340.
- SMITH K.K., GOOD R.E. and GOOD N.F., 1979: Production dynamics for above- and belowground components of a New Jersey *Spartina alterniflora* tidal marsh. *Estuar.Coast.Marine Sci.* **9**, 189-201.
- SOKAL R.R. and ROHLF F.J., 1981: *Biometry. The principles and practice of statistics in biological research*. (2nd ed.). Freeman, San Francisco. 859 pp.
- SZCZEPANSKA W., 1976: Development of the underground parts of *Phragmites communis* Trin. and *Typha latifolia* L. *Pol.Arch.Hydrobiol.* **23**, 227-232.
- SZCZEPANSKA W. and SZCZEPANSKI A., 1976: Growth of *Phragmites communis* Trin., *Typha latifolia* L. and *Typha angustifolia* L. in relation to the fertility of soils. *Pol.Arch.Hydrobiol.* **23**, 233-248.
- THIMANN K.V., 1980: Senescence of leaves. In: THIMANN K.V. (ed.), *Senescence in plants*. C.R.C. Press, Boca Raton, Florida. 85-116.
- THOMPSON D.J. and SHAY J.M., 1985: The effect of fire on *Phragmites australis* in the Delta Marsh, Manitoba. *Can.J.Bot.* **63**, 1864-1869.
- TOLONEN K., 1983: The post-glacial fire record. In: WEIN R.W. and MacLEAN D.A. (eds.), *The role of fire in northern circumpolar ecosystems*. SCOPE (Wiley, Chichester) **18**, 21-44.
- TOWNE G. and OWENSBY C., 1984: Long-term effects of annual burning at different dates in ungrazed Kansas tallgrass prairie. *J.Range Manage.* **37**, 392-397.
- TRABAUD L., 1983: The effects of different fire regimes on soil nutrient levels in a *Quercus coccifera* L. garrigue. In: KRUEGER F.J., MITCHELL D.T. and JARVIS J.U.M. (eds.), *Mediterranean type ecosystems: The role of nutrients*. Ecol.Stud. (Springer, Berlin) **43**, 233-243.
- TRABAUD L. and LEPART J., 1981: Changes in the floristic composition of a *Quercus coccifera* L. garrigue in relation to different fire regimes. *Vegetatio* **46**, 105-116.
- TRANQUILLINI W., 1982: Frost-drought and its ecological significance. In: LANGE L., NOBEL P.S., OSMOND C.B. and ZIEGLER H. (eds.), *Physiological plant ecology II. Encyclopedia of plant physiology* (Springer, Heidelberg). n.s. **12B**, 379-400.
- VALIELA I., TEAL J.M. and PERSSON N.Y., 1976: Production and dynamics of experimentally enriched salt marsh vegetation: Belowground biomass. *Limnol.Oceanogr.* **21**, 245-252.

- VALIELA I., HOWES B., HOWARTH R., GIBLIN A., FOREMAN K., TEAL J.M. and HOBBIE J.E., 1982: Regulation of primary production and decomposition in a salt marsh ecosystem. In: GOPAL B., TURNER R.E., WETZEL R.G. and WHIGHAM D.F. (eds.), *Wetlands: Ecology and management*. Nat.Inst.Ecol. Intern.Sci.Publ., Jaipur, India. 151-163.
- VAN DER LINDEN, M.J.H.A., 1980: Nitrogen economy of reed vegetation in the Zuidelijk Flevoland polder: I. Distribution of nitrogen among shoots and rhizomes during the growing season and loss of nitrogen due to fire management. *Acta Oecol.Oecol.Plant.* **1**, 219-230.
- VAN DER TOORN J. and MOOK J.H., 1982: The influence of environmental factors and management on stands of *Phragmites australis*. I. Effects of burning, frost and insect damage on shoot density and shoot size. *J.Appl.Ecol.* **19**, 477-499.
- VAN DER VALK A.G., 1981: Succession in wetlands: a Gleasonian approach. *Ecology* **62(3)**, 688-696.
- VAN DER VALK A.G. and DAVIS C.B., 1978a: The role of seed banks in the vegetation dynamics of prairie glacial marshes. *Ecology* **59**, 322-335.
- VAN DER VALK A.G. and DAVIS C.B., 1978b: Primary production of prairie glacial marshes. In: GOOD R.E., WHIGHAM D.F. and SIMPSON R.L. (eds.), *Freshwater wetlands: Ecological processes and management potential*. Acad.Press, New York. 21-37.
- VAN DER VALK A.G. and DAVIS C.B., 1979: A reconstruction of the recent vegetational history of a prairie marsh, Eagle Lake, Iowa, from its seed bank. *Aquat.Bot.* **6**, 29-51.
- VAN DER VALK A.G., DAVIS C.B., BAKER J.L. and BEER C.E., 1980: Natural freshwater wetlands as nitrogen and phosphorus traps for land runoff. In: GREESON P.E., CLARK J.R. and CLARK J.E. (eds.), *Wetland function and values: The state of our understanding*. Am.Water Res. Assoc., Minneapolis. 457-467.
- WARD P., 1968: Fire in relation to waterfowl habitat of the Delta marshes. *Proc. Tall Timbers Fire Ecology Conf.* **8**, 255-267.
- WEBBER P.J., 1978: Spatial and temporal variation of the vegetation and its productivity. In: TIESZEN L.L. (ed.), *Vegetation and production ecology of an Alaskan arctic tundra*. Springer, New York. 37-112.
- WEIN R.W., 1983: Fire behaviour and ecological effects in organic terrain. In: WEIN R.W. and MacLEAN D.A. (eds.), *The role of fire in northern circumpolar ecosystems*. SCOPE (Wiley, Chichester) **18**, 81-95.
- WELLER M.W., 1975: Studies of cattail in relation to management for marsh wildlife. *Iowa State J.Res.* **49**, 383-412.
- WELLER M.W., 1978: Management of freshwater marshes for wildlife. In: GOOD R.E., WHIGHAM D.F. and SIMPSON R.L. (eds.), *Freshwater wetlands: Ecological processes and management potential*. Acad.Press, New York. 267-284.
- WELLER M.W., 1982: *Freshwater marshes: Ecology and wildlife management*. Univ. of Minnesota Press, Minneapolis. 146 pp.
- WELLER M.W. and SPATCHER C.S., 1965: Role of habitat in the distribution and abundance of marsh birds. *Iowa Agric. and Home Econ.Exp.Stat.*, Ames, Iowa. Special Report **43**. 31 pp.
- WHIGHAM D.F., 1982: Using freshwater wetlands for wastewater management in North America. In: GOPAL B., TURNER R.E., WETZEL R.G. and WHIGHAM D.F. (eds.), *Wetlands: Ecology and management*. Nat.Inst.Ecol.Intern. Sci.Publ., Jaipur, India. 507-514.
- WHIGHAM D.F. and BAYLEY S.E., 1980: Nutrient dynamics in freshwater wetlands. In: GREESON P.E., CLARK J.R., CLARK J.E. (eds.), *Wetland functions and values: The state of our understanding*. Am.Water Res. Assoc., Minneapolis. 468-478.



- WHIGHAM D.F. and SIMPSON R.L., 1976: The potential use of freshwater tidal marshes in the management of water quality in the Delaware River. In: TOURBIER J. and PIERSON Jr. R.W. (eds.), Biological control of water pollution. Univ. of Pennsylvania Press, Philadelphia. 173-186.
- WHIGHAM D.F., McCORMICK J., GOOD R.E. and SIMPSON R.L., 1978: Biomass and primary production in freshwater tidal wetlands of the middle atlantic coast. In: GOOD R.E., WHIGHAM D.F. and SIMPSON R.L. (eds.), Freshwater wetlands: Ecological processes and management potential. Acad.Press, New York. 3-20.
- WHITMAN W.R., 1974: The response of macro-invertebrates to experimental marsh management. Ph.D. Thesis, Univ. of Main, Orono. 114 pp.
- WHITMAN W.R., 1976: Impoundments for waterfowl. Can.Wildlife Service, Ottawa. Occasional Paper 22. 21 pp.
- WIDDEN P., 1977: Microbiology and decomposition on Truelove Lowland. In: BLISS L.C. (ed.), Truelove Island, Devon Island, Canada: A high arctic ecosystem. Univ. of Alberta Press, Edmonton. 503-530.
- WOODMANSEE R.G. and WALLACH L.S., 1981: Effects of fire regimes on biogeochemical cycles. In: CLARK F.E. and ROSSWALL T. (eds.), Terrestrial nitrogen cycles. Ecol.Bull.(Stockholm) 33, 649-669.
- WRIGHT H.A. and BAILEY A.W., 1982: Fire ecology: United States and Southern Canada. Wiley, New York. 501 pp.
- WRIGHT H.A. and KLEMMEDSON J.O., 1965: Effect of fire on bunchgrasses of the sagebrush-grass region in Southern Idaho. Ecology 46, 680-688.

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