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Nota di contenuto	<p>""Table of contents""; ""Preface""; ""1. Introduction""; ""1.1 Purpose""; ""1.2 Overall description of the system with its components""; ""2. Development""; ""2.1 The simulated events""; ""2.2 Emergence and initiation of crop development and growth""; ""2.3 Above-ground development""; ""3. Shoot growth""; ""3.1 Leaf dynamics""; ""3.2 Radiation interception""; ""3.3 Shoot biomass growth""; ""3.4 Stress indices""; ""3.5 Partitioning of biomass in organs""; ""4. Yield formation""; ""4.1 For determinate growing plants""; ""4.2 For indeterminate growing plants""; ""4.3 Quality""</p> <p>""5. Root growth""""5.1 Root front growth""; ""5.2 Growth in root density""; ""6. Management and crop environment""; ""6.1 Effects on plants""; ""6.2 Soil water supply""; ""6.3 Net nitrogen supply""; ""6.4 Physical soil surface conditions""; ""6.5 Soil structure modification""; ""6.6 Microclimate""; ""7. Water Balance""; ""7.1 Soil evaporation""; ""7.2 Crop water requirements""; ""7.3 Plant transpiration and derived stresses""; ""8. Nitrogen transformations""; ""8.1 Mineralization of soil organic matter""; ""8.2 Mineralization of organic residues""; ""8.3 Nitrification""</p> <p>""8.4 Ammonia volatilization""""8.5 Denitrification""; ""8.6 Nitrogen uptake by plants and plant nitrogen status""; ""8.7 Nitrogen fixation by legumes""; ""9. Transfers of heat, water and nitrate""; ""9.1 Soil temperature""; ""9.2 Transfers of water and nitrate in free drained soil"";</p>

""9.3 Case of artificially drained soil""; ""9.4 Integrated calculations of soil status""; ""10. Cropping systems""; ""10.1 The notion of a Unit of SiMulation (USM)""; ""10.2 Long term simulations""; ""10.3 Intercropping""; ""11. Involvement of the user in the model operation""; ""11.1 Driving options""
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