

PLANT AND SOIL SCIENCE EXAM

Dr. Greg MacDonald, Plant Science Section Coordinator; Dr. Jerry Sartain, Soil Science Section Coordinator

The questions are prepared and graded by or in consultation with the instructors of all the Plant and Soil Science core courses and internships in the Doctor of Plant Medicine degree program.

The plant science exam will encompass the 4 major areas that have been evaluated in previous exams. These include soils and soil fertility, plant nutrition, plant physiology and weed science. Dr. MacDonald is responsible for the plant physiology and weed science sections, Dr. Sartain for the soils section, and Drs. Simonne and Erickson for the plant nutrition section. All questions pertaining to those areas should be directed to the appropriate individuals. The physiology and weed science sections will follow a similar format to previous exams.

A further note regarding the physiology and weed science sections, review your class notes in preparation. The questions are straightforward not formulated to be tricky; stick to the major concepts in your review. For physiology, know water and sugar flow mechanisms, transpiration, mass flow, C4 photosynthesis, nitrogen fixation, etc. For weed science, weed biology, competition, impacts of weeds, concepts of weed ID and principles of weed management. Also know your herbicides and how they are grouped and used. Also know the major modes of action and how you would approach weed control from a grower perspective. Calibration will also be included in the weed science section.

Dr. Sartain will be available by appointment to discuss the soil science section of the exam. Appointments can be set up with him by email.

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