

Checklist and Sample Abstract

Abstracts accompany all articles in *Seed Technology*. They are often republished as printed in secondary abstracting services and journals, such as *Chemical Abstracts* and BIOSIS or *Biological Abstracts*. The abstract, therefore, should meet two requirements. The person reading an abstract should be able to tell quickly the value of the report and whether or not to read it thoroughly. It also should provide the literature searcher enough information to assess its value and to index it for later retrieval. Use the checklist below to assure that your abstract meets these requirements.

The abstract should:

- _____ Strive for an impersonal, noncritical, and informative account.
- _____ Give a clear, grammatically accurate, exact, and stylistically uniform treatment of the subject.
- _____ Provide rationale or justification for the study. The statement should give a brief account of the purpose, need, and significance of the investigation (hypothesis or how the present work differs from previous work).
- _____ State the objectives clearly as to what is to be obtained.
- _____ Give a brief account of the methods, emphasizing departures from the customary. Be specific.
- _____ Clarify whether it is a greenhouse, laboratory or field experiment.
- _____ State results succinctly.
- _____ Outline conclusions or recommendations, if any. An emphasis of the significance of the work, conclusions, and recommendations. This may include new theories, interpretations, evaluations, or applications.
- _____ Use specific figures whenever possible to avoid use of general terms, especially in presenting the method and reporting the results. For example, if two rates of a treatment are used, state what they are.
- _____ Never cite references.
- _____ Contain about 250 words for articles or 150 words for Notes.

With permission of the author, a published **sample abstract** is reproduced below, broken apart with its sections labeled. Study it to see both overall construction of the abstract and the contents of each of its parts. [From *Agron. J.* 78:720–726 (1986)].

**Dryland Grain sorghum Water use, Light Interception, and Growth
Responses to Planting Geometry
J. L. Steiner***

ABSTRACT

<i>Rationale</i>	Crop Yields are primarily water-limited under dryland production systems in semiarid regions.
<i>Objectives</i>	This study was conducted to determine whether the growing season water balance could be manipulated through planting geometry.
<i>Methods</i>	The effects of row spacing, row direction, and plant population on the water use, light interception, and growth of grain sorghum [<i>Sorghum bicolor</i> (L.) Moench] were investigated at Bushland, TX, on a Pullman clay loam (fine, mixed, thermic Torrertic Paleustoll).
<i>Results</i>	In 1983, which had a dry growing season, narrow row spacing and higher population increased seasonal evapotranspiration (ET) by 7 and 9%, respectively, and shifted the partitioning of ET to the vegetative period. Medium population crops yielded 6.2 and 2.3 Mg/ha of dry matter and grain, respectively. High population resulted in high dry matter (6.1 Mg/ha) and low grain yield (1.6 Mg/ha), whereas low population resulted in low dry matter (5.4 Mg/ha) and high grain yield (2.3 Mg/ha). Row direction did not affect water use or yield. In 1984, dry matter production for a given amount of ET and light interception was higher in the narrow-row crops. Evapotranspiration was less for a given amount of light interception in the narrow-row crops and in the north-south row crops.
<i>Conclusions</i>	Narrow-row planting geometry appears to increase the partitioning of ET to the transpiration component and may improve the efficiency of dryland cropping systems.