

## **Foreword**

The first edition of "Sunflower Production and Marketing Extension Bulletin 25" was published in 1975. This publication provided general information for growers, seedsmen, processors, marketing agencies and Extension personnel. Revised editions followed in 1978, 1985 and 1994. Interest and knowledge about sunflower production and marketing in the U.S. has increased greatly in the past 30 years. Marketing and processing channels have stabilized and have become fairly familiar to growers since 1985, but pest problems have shifted and new research information has become available to assist in production decisions.

This publication is a revision of the "Sunflower Production and Marketing Bulletin" published in 1994. The purpose is to update information and provide a production and pest management guide for sunflower growers. This revised publication is directed primarily to the commercial production of sunflower, not to marketing and processing. It will attempt to give specific guidelines and recommendations on production practices, pest identification and pest management, based on current information.

This publication also is directed primarily toward sunflower production in the northern Great Plains of the U.S. However, much of the information is relevant to other production areas. All pesticides recommended have a U.S. Environmental Protection Agency label unless otherwise specified. This publication contains certain recommendations for pesticides that are labeled ONLY for North Dakota. The users of any pesticide designated for a state label must have a copy of the state label in their possession at the time of application. State labels can be obtained from agricultural chemical dealers or distributors. USE PESTICIDES ONLY AS LABELED.

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# Sunflower Production

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