

AGRONOMY JOURNAL

Issued on the 20th of Every Other Month

Business and Editorial Offices at 677 S. Segoe Road,
Madison 11, Wis.

Published bimonthly at Madison, Wis., by the American Society of Agronomy.
Second class postage paid at Madison, Wis. Forms close 30 days prior to
issuance of each number.

Subscription rates: \$12.00 per year, \$2.25 per copy, postpaid, in the U. S.
and Canada. All other subscriptions: \$13.00 per year, \$2.50 per copy. Avail-
able back issues through Vol. 52 (12 issues per year): \$1.35 per copy, \$15.00
per volume, in U. S. and Canada; elsewhere, \$1.50 per copy, \$16.00 per
volume.

New subscriptions, renewals, and new memberships which include the
JOURNAL begin with the January number of the current volume.

Changes of address should be received by the 1st of the month in which
they are to take effect.

Claims for copies which fail to reach paid subscribers must be received
by AGRONOMY JOURNAL within 90 days of publication date for domestic
subscribers, and within one (1) year of publication date for foreign subscrip-
tions. Claims for replacement copies presented later than the dates specified
above will not be honored.

Subscriptions, renewals, and membership fees for the current volume and
orders for back numbers should be sent to the Executive Secretary, 677 S.
Segoe Road, Madison 11, Wis. Back volumes, beginning with Volume 41,
are available in microfilm. Write for details.

Articles concerned with the instruction, demonstration, experimentation, or
research in agronomy will be accepted from active members of the Society
if deemed suitable by the Editorial Board. It is understood that articles
submitted for publication have not been previously and will not be simulta-
neously published in any other scientific or technical journal without the
consent of the Editor of this JOURNAL. At least one author of a paper must
be an active member of the American Society of Agronomy.

Free publication in the JOURNAL is limited to four pages, with a charge
of \$35.00 for each additional one-half page. The JOURNAL does not assume
financial liability for halftone engravings or zinc etchings beyond \$15.00
for each contribution. The author of any otherwise acceptable paper may
have it published immediately by paying the entire cost of publication;
publication of such a paper does not affect the priority of any paper on
the regular schedule.

MATTHIAS STELLY, *Executive Secretary and Editor*

D. C. SMITH, *Associate Editor in Crops*

O. J. ATTOE, *Associate Editor in Soils*

D. S. METCALFE, *Associate Editor in Agronomic Education*

HARRY L. HAMILTON, *Managing Editor*

Consulting Editors

Soils	Crops	
G. B. BODMAN	R. E. ATKINS	
R. L. BRANSON	R. E. BLASER	
MACK DRAKE	C. S. GARRISON	
W. H. PIERRE	C. M. HARRISON	
T. M. McCALLA	M. T. JENKINS	
J. T. PESEK, JR.	G. O. MOTT	
H. F. RHOADES	W. C. SHAW	
H. T. ROGERS		
W. R. SCHMEHL	<i>Meteorology and Climatology</i>	
C. B. TANNER	P. E. WAGGONER	
M. D. THORNE		
	<i>Agronomic Education</i>	
<i>Statistics</i>	R. M. SWENSON	
D. D. MASON		

BOARD OF DIRECTORS

AMERICAN SOCIETY OF AGRONOMY

OFFICERS:

GLENN W. BURTON, *President* B. R. BERTRAMSON, *Past President*
M. B. RUSSELL, *Vice-President* MATTHIAS STELLY, *Executive Sec.-Treas.*

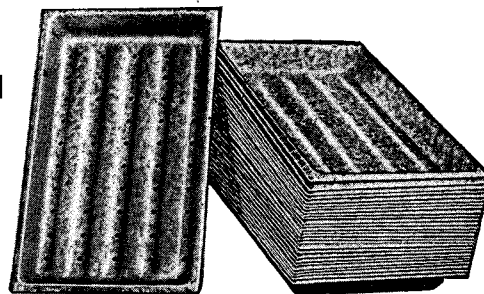
OTHER DIRECTORS:

R. B. ALDERFER	R. L. DAVIS	R. P. MURPHY
K. L. ANDERSON	H. C. FOLKS	W. L. NELSON
C. A. BLACK	C. S. GARRISON	F. L. PATTERSON
C. A. BOWER	B. F. KILTZ	W. A. RANEY
J. C. BURTON	G. C. KLINGMAN	E. C. ROBERTS
W. H. CARMAN	B. A. KRANTZ	T. H. ROGERS
H. B. CHENEY	D. F. McALISTER	G. D. SMITH
J. R. COWAN	R. D. MILLER	F. G. VIETS, JR.

ADVERTISING REPRESENTATIVES

The Powers-Hayward Company, 75 East Wacker Drive, Chicago 1, Ill.
Phone Central 6-5142

NORMAN METAL FLATS



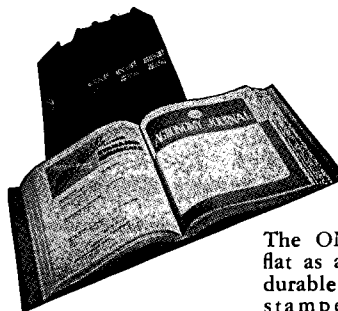
- Never Need Repairing
- Termite-Proof, Fire-Proof
- Nest in One-Tenth Storage Space of Wood Flats

Stamped from single piece of heavily galvanized metal, Norman Metal Flats can't fall apart, are far lighter than old-fashioned wood flats. And, one Norman customer reports he's still using Norman Flats purchased 28 years ago. They're easily cleaned, always ready for use. Permit watering from bottom by capillary attraction, dirt won't shrink from side as in wood flats. Thousands and thousands in use.

Flange all around for strength; makes a perfect handhold. You can produce better plants with greater ease and economy with Norman Galvanized Metal Flats.

The W. F. Norman Sheet Metal Mfg. Co.
Dept. AJ, Nevada, Missouri

A HANDSOME, PERMANENT BINDER for AGRONOMY JOURNAL



One copy \$3.30
Two or more
\$2.80 each

The ONLY binder that opens flat as a bound book! Made of durable imitation leather, nicely stamped on backbone, with name of journal and year and volume number, it will preserve your journals permanently. Each cover holds 12 issues (one volume). Do your own binding at home in a few minutes. Instructions easy to follow. Mail coupon for full information, or binder on 10-day free trial.

Mail coupon today

SUCKERT LOOSE-LEAF COVER CO.

11911 Grand River Avenue, Detroit 4, Michigan

Mail postpaid binders for AGRONOMY

JOURNAL for years

Will remit in 10 days or return binders.

Name

Address

City State