



UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

**NATIONAL REGISTER OF HISTORIC PLACES
PROPERTY PHOTOGRAPH FORM**

FOR NPS USE ONLY

RECEIVED

DATE ENTERED

SEE INSTRUCTIONS IN *HOW TO COMPLETE NATIONAL REGISTER FORMS*
TYPE ALL ENTRIES --ENCLOSE WITH PHOTOGRAPH

1 NAME

HISTORIC

Sanborn Fields and Soil Erosion Plots

AND/OR COMMON

Sanborn Fields and Soil Erosion Plots

2 LOCATION

CITY, TOWN

Columbia

___VICINITY OF

COUNTY

Boone

STATE

Missouri

3 PHOTO REFERENCE

PHOTO CREDIT Stephen Lissendrello

DATE OF PHOTO January 1975

NEGATIVE FILED AT Historic Sites Survey, 1100 L Street NW.
Washington, D.C. 20240

4 IDENTIFICATION

DESCRIBE VIEW, DIRECTION, ETC. IF DISTRICT, GIVE BUILDING NAME & STREET

PHOTO NO.

Facing west along northern plots, Sanborn Fields (southern plots across open grass to right). Bouchelle Street to left, Veterinary Science Building in background.



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Facing east along northern plots, Sanborn Fields to College Avenue and
Bouchelle Street.

SITE OF
FIRST PLOTS IN THE UNITED STATES
FOR MEASURING RUNOFF & EROSION
AS INFLUENCED BY DIFFERENT CROPS

FROM CROPPED LAND

THE STUDY WAS STARTED IN 1917. THE FIRST RESULTS WERE PUBLISHED IN 1923. THEY PROVIDED THE FOUNDATION FOR THE SOIL CONSERVATION MOVEMENT. THE DESIGN OF THE EXPERIMENT SERVED AS THE PROTOTYPE FOR FUTURE EXPERIMENTS BY THE U.S.D.A. THROUGHOUT THE UNITED STATES.

THE INVESTIGATIONS WERE INITIATED BY M.F. MILLER AND F.L. DULEY IN THEIR SEARCH FOR THE CAUSES OF DECLINING SOIL PRODUCTIVITY. THE ORIGINAL PLOTS ARE BEING USED NOW TO INVESTIGATE THE RENOVATION OF ERODED SOIL THROUGH THE USE OF LEGUMES, GRASS AND CORN WITH TREATMENTS TO SUPPLY THE NUTRIENTS THAT WERE LOST THROUGH EROSION.

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Facing west from Hitt Street to Soil Erosion Plots. Parking lot,
McHaney Rehabilitation Center to rear.



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PHOTO CREDIT University of Missouri

DATE OF PHOTO (no date)

NEGATIVE FILED AT University of Missouri, Columbia, Missouri

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PHOTO NO.

Looking south to aerial view, Sanborn Field. Bouchelle below, Rollins above,
Veterinary Science Building to left, College Avenue to right.



SANBORN FIELD

MISSOURI EXPERIMENT STATION

THIS EXPERIMENT FIELD WAS ESTABLISHED IN 1888 BY J. W. SANBORN, DIRECTOR OF THE MISSOURI EXPERIMENT STATION. THE EXPERIMENTS INCLUDE COMPARISONS OF VARIOUS CROPPING SYSTEMS AND OF DIFFERENT FERTILIZING MATERIALS. THIS IS ONE OF THE OLDEST EXPERIMENT FIELDS IN THE UNITED STATES AND IS OF SPECIAL SCIENTIFIC VALUE BECAUSE OF THE LONG PERIOD OF EXPERIMENTATION.

Entrance to Sanborn Field - Dr. Wm. A. Albrecht (left) and Dean Emeritus M. F. Miller (right)

AUREOMYCIN ORIGINATED HERE



THE FUNGUS, STREPTOMYCES AUREOFACIENS, STRAIN A377, WAS ISOLATED BY DR. B. W. DUGGAR FROM A SOIL SAMPLE FROM THIS FIELD, PLOT 23, IN TIMOTHY CONTINUOUSLY WITHOUT SOIL TREATMENT SINCE 1888.

THE SAMPLE WAS ONE OF A DOZEN SENT TO THE LEDERLE LABORATORIES, PEARL RIVER, NEW YORK IN AUGUST 1945, BY WM. A. ALBRECHT. THE ISOLATION FROM PLOT 23 WAS MADE THE "TYPE" FOR THE ORIGINAL DESCRIPTION AND THE ANCESTRAL PARENT OF ALL IMPROVED STRAINS USED BY THE AMERICAN CYANAMID COMPANY IN PRODUCTION OF AUREOMYCIN, NOW IN WORLD-WIDE DISTRIBUTION.

THIS REFERENCE SOIL SAMPLE WAS PLACED IN THE SMITHSONIAN INSTITUTE, WASHINGTON D.C., WITH SPECIAL CEREMONIES ON THE TENTH ANNIVERSARY OF THE ANNOUNCEMENT OF THE DISCOVERY OF THIS COMPOUND, OCTOBER 15, 1958.

THIS PLAQUE WAS ERECTED JUNE 1959

Plaque placed on entrance to Sanborn Field after the isolation of Streptomyces Aureofaciens - Strain A 377