

**UNITED STATES DEPARTMENT OF AGRICULTURE
OFFICE OF THE SECRETARY**

Washington, D.C 20205

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DEPARTMENTAL REGULATION 001

U.S Department of Agriculture(USDA)
Agriculture Research Service

In collaboration with:
Department of Health and Human Services
National Aeronautics and Space Administration

Policy Statement on producing food in space

1. Purpose

- a. Being able to reliably produce food in space is crucial to continuing our mission in as directed as the National Aeronautics and Space Administration(NASA). We need a way to have a source of food for long term missions, whether it be Mars or beyond. To develop a plant based diet for Astronauts is crucial for the longevity of the mission.

2. Actions Ordered

- a) Develop a system to contain all the necessary nutrients required to grow plants in a microgravity environment.
- b) Develop a system to contain the ideal air mixture that promotes plant growth.
- c) Develop a way to limit the stresses put on the growing plants in microgravity
- d) Develop seeds that can handle being grown in space.
- e) Develop substrate that can handle being in microgravity without dispersing.
- f) Develop a way to reliably deliver water to the plants that are being grown in microgravity.

-END-

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SECRETARY OF AGRICULTURE

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SECRETARY OF HEALTH AND HUMAN SERVICES