

Satellite Spots a Desert Bloom in Western Australia

After unusually wet months, a dry region filled with wildflowers bright enough to stand out from space.



A dry red landscape in Western Australia is dotted with bright wildflowers and distant radio antennas.

A very dry part of Western Australia has turned colorful after months of extra rain, according to NASA Earth Observatory. In late austral winter 2026, which means winter in the Southern Hemisphere, wildflowers spread across rusty-colored land in the Murchison region. Local experts think the bloom could be the best the area has seen in nearly 20 years.

The Murchison region is about 600 kilometers, or 370 miles, north of Perth. It is one of Western Australia's main areas for **grazing** sheep and cattle. The land is arid, meaning it gets little rain. Its usual plants include grasses, saltbush, and the slow-growing evergreen mulga tree. But after wet weather, seeds that had been waiting in the soil began to grow. **Dormant** seeds are alive but inactive, almost like they are paused until conditions improve.

NASA showed the change with images from Landsat 8, a **satellite** that circles Earth and takes pictures of the planet's surface. The satellite's Operational Land Imager, a camera-like instrument, captured the area in late August 2026 and compared it with a similar time in 2025, when the

region was drier. In the newer image, the land looked greener because more plants were growing.

Rainfall was above average in June and very much above average in August, according to Australia's **Bureau** of Meteorology. A bureau is a government office that collects and studies information. The article says several cold fronts helped bring the rain. A cold front is the leading edge of cooler air moving into an area, and it can cause clouds and rain when it pushes warmer air upward.

The bloom also appeared at a radio **astronomy** site run by CSIRO, Australia's national science agency. Radio astronomy is the study of space by collecting radio waves, a type of energy that travels through space. The site's full name is Inyarrimanha Ilgari Bundara, the CSIRO Murchison Radio-astronomy Observatory. Its main job is not studying flowers. It uses groups of **antennas** to observe and catalog objects in the southern sky.

That makes the scene unusual. On the ground, wildflowers were drawing attention. Above the

ground, antennas were listening for signals from deep space. The observatory sits in a “radio quiet” zone, an area where electronic devices and communications are limited. That matters because electromagnetic interference, unwanted signals from electronics, can disturb the sensitive instruments used to study space.

The flower display included some **threatened** species, which are plants or animals at risk of disappearing from an area or becoming extinct. The observatory has helped monitor those species on land that was formerly pastoral, meaning it was once used for grazing animals.

This story matters because it shows how quickly an **ecosystem** can respond when conditions

change. It also shows why long-term observations are useful. One rainy season can be exciting, but comparing one year with another helps scientists see the difference more clearly. Satellites make that possible because they can watch large areas that would be hard to study only from the ground.

It also connects two kinds of science that may seem separate. Earth science studies our planet’s weather, land, water, and living things. Space science studies objects beyond Earth. In the Murchison, the same remote place is important for both. Rain woke up seeds underfoot, while antennas kept searching the sky overhead.

Written from reporting by NASA.

THINK IT THROUGH

1. What can satellite images show about an ecosystem that people on the ground might miss, and what can they not show?

A strong answer: A strong answer should weigh the value of seeing large patterns over time against limits such as not identifying every species or explaining local causes by image alone.

2. Should remote science sites like the Murchison observatory be managed mainly for research, for protecting local ecosystems, or for both? Defend your view.

A strong answer: A strong answer should consider trade-offs between space research, land use, threatened species, and careful planning.

3. How could a short burst of unusual rain help scientists ask bigger questions about dry places?

A strong answer: A strong answer should connect the bloom to dormant seeds, weather patterns, plant survival, and the need for repeated observations.

Satellite Spots a Desert Bloom in Western Australia

G O S T E U B P H S G E E A G S T U
Z T O S O L U T A G N L E R E S H A
O T R A N R R E O R Y A Y A A Y R G
I E O A N T E N N A S E C I R S E L
I O L B I R A R O Z A T H N N Y A N
A I A M N E U T A I T H Z F S A T A
A E T A R A A R N N E R T A O O E S
N A E A A S F R A G L E N L E O N T
N C E E N N Q A W I L D F L O W E R
D B I I N T E G A I I I R O S N D O
A O T Z E J N T N W T R N A R N T N
R R R S N S W E S S E I N F D G R O
E I I M F N I E T E C O S Y S T E M
A A O C A O W W D R F R F I A N L Y
U E F R L N N A U R U N H L D O S A
A S U T H R T I D N S R L T I Y E E
D G E E O D R R D O E S O C T T F P
E E H L A Y R A E L E O I R E F D T

ANTENNAS

ASTRONOMY

BUREAU

DORMANT

ECOSYSTEM

GRAZING

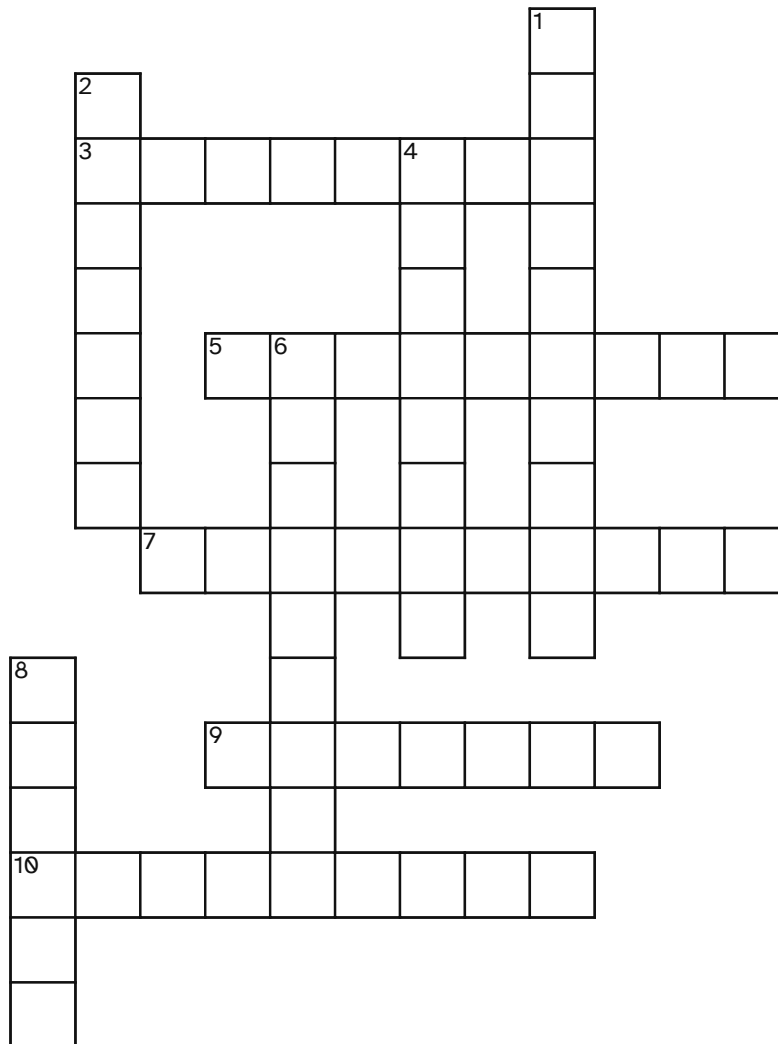
RAINFALL

SATELLITE

THREATENED

WILDFLOWER

Satellite Spots a Desert Bloom in Western Australia



ACROSS

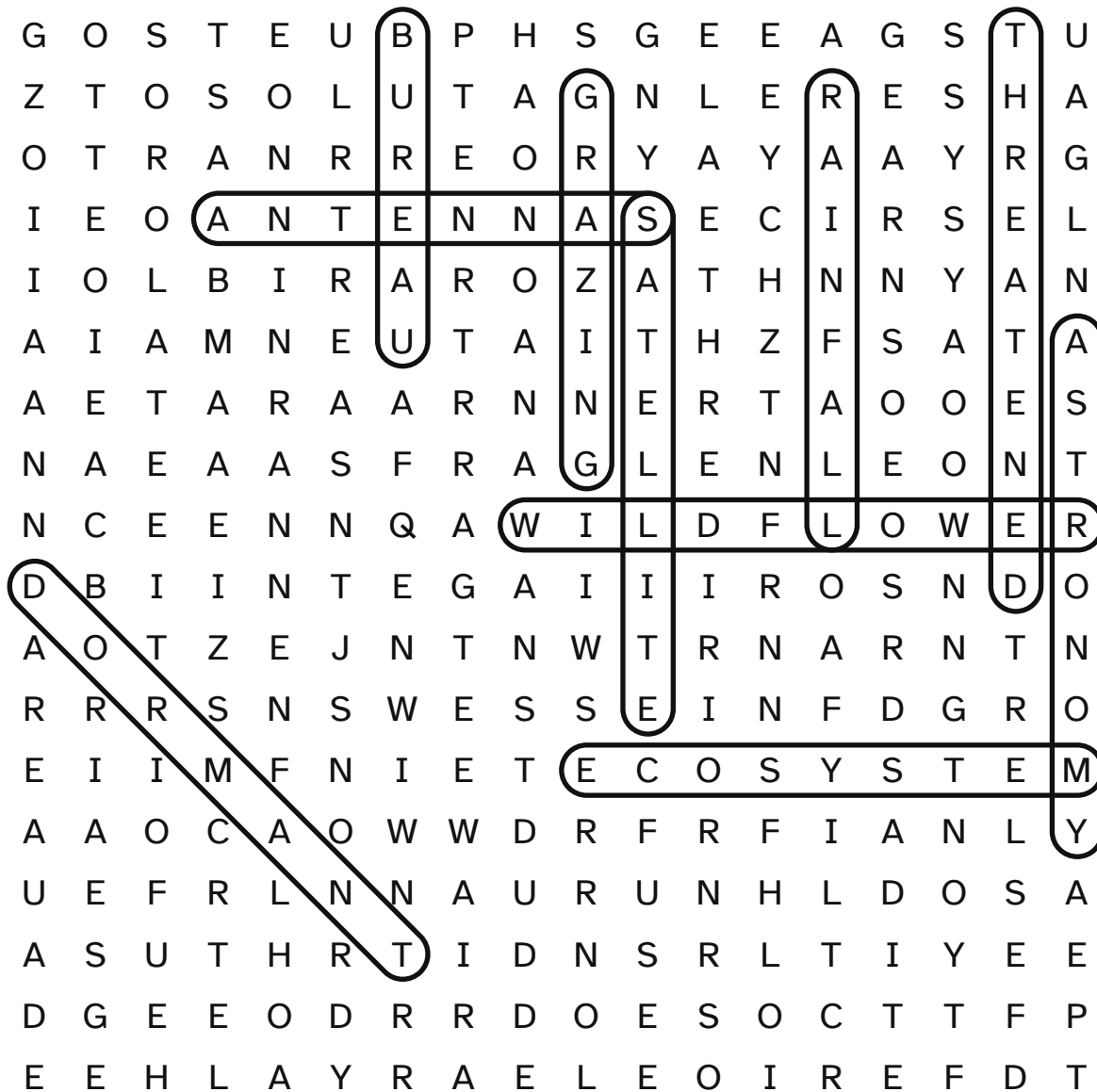
- 3 Amount of water falling from clouds in a place over time
- 5 Object orbiting a planet that can gather images or data
- 7 At risk of vanishing from an area or dying out
- 9 Alive but inactive until conditions improve for growth
- 10 Living things and surroundings interacting as a community

DOWN

- 1 Flowering plant that grows on its own, not in a garden
- 2 Animals feeding on grass and other plants
- 4 Devices for sending or receiving radio waves and other signals
- 6 Scientific study of objects and events beyond Earth
- 8 Government office that collects and studies information

Satellite Spots a Desert Bloom in Western Australia

— answer key



ANTENNAS

ASTRONOMY

BUREAU

DORMANT

ECOSYSTEM

GRAZING

RAINFALL

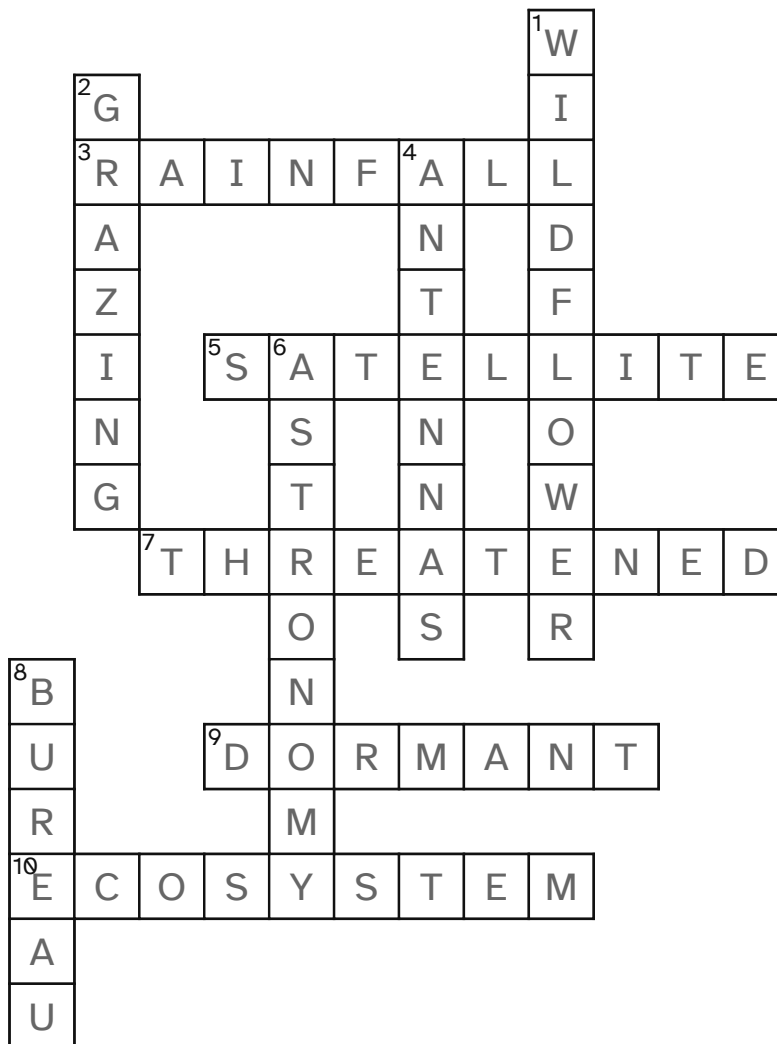
SATELLITE

THREATENED

WILDFLOWER

Satellite Spots a Desert Bloom in Western Australia

— answer key



ACROSS

- 3 Amount of water falling from clouds in a place over time
- 5 Object orbiting a planet that can gather images or data
- 7 At risk of vanishing from an area or dying out
- 9 Alive but inactive until conditions improve for growth
- 10 Living things and surroundings interacting as a community

DOWN

- 1 Flowering plant that grows on its own, not in a garden
- 2 Animals feeding on grass and other plants
- 4 Devices for sending or receiving radio waves and other signals
- 6 Scientific study of objects and events beyond Earth
- 8 Government office that collects and studies information

Where this came from

This article was written for 3andB from the reporting below. It is not a reprint — the wording is ours and the facts are theirs.

NASA

"Boom Year for Desert Blooms"

Published Wednesday, September 23, 2026

Read by us on Wednesday, September 23, 2026

<https://science.nasa.gov/earth/earth-observatory/boom-year-for-desert-blooms/>

WHAT IS IN THIS PACKET

The article with a note on each question, a word search, a crossword, and the answer key to both.

COPYING AND REUSE

Free to print, copy and hand out for classroom use. Please keep this page with the packet, so the next teacher can see where the story came from.

More where this came from

If this short lesson worked for your class, our full workbooks go further with the same care:

- Complete units with student and teacher editions
- Worked solutions for every exercise
- Standards-aligned, classroom-tested, print-ready

See the full lessons at 3andB.com