



THE ELECTROMAGNETIC SPECTRUM

Exploring Light and
Farming

Electromagnetic Spectrum



Visible

Higher energy

Lower energy



PHOTOSYNTHESIS AND LIGHT





GREENHOUSE

Farmers grow food indoors!

A photograph of several potted plants, likely peace lilies, under a strong red light. The leaves are a vibrant red color. In the background, there are vertical blue light sources. A white speech bubble with a black border is positioned in the lower right, containing the text "RED LIGHT IN AGRICULTURE".

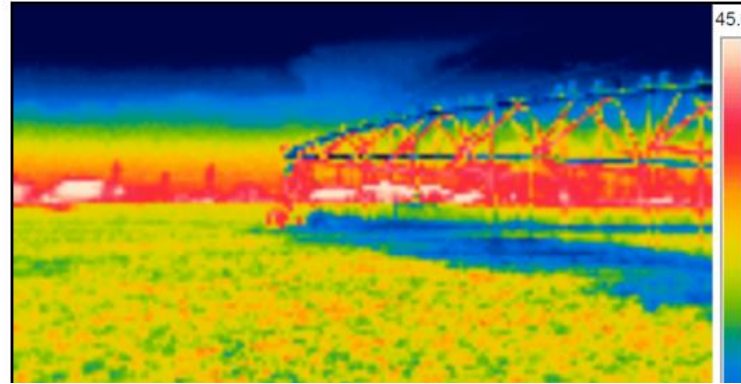
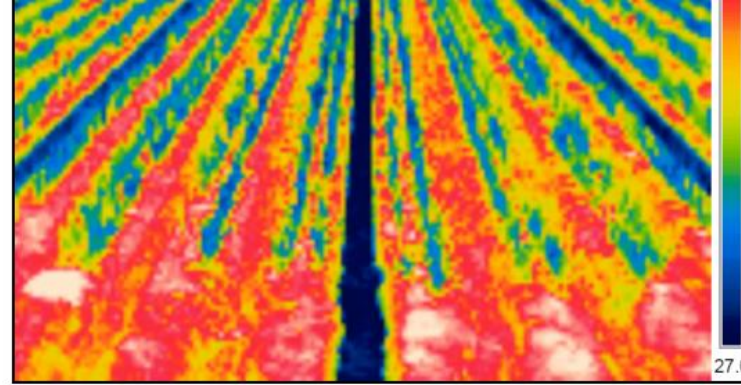
RED LIGHT IN AGRICULTURE

The background of the slide features a close-up of several plants with long, narrow, blade-like leaves. The plants are illuminated by a strong blue light, which gives them a vibrant blue-green appearance. The lighting is directional, coming from the upper left, which creates bright highlights on the edges of the leaves and deep shadows in the recesses and between the plants. The overall effect is a high-contrast, monochromatic blue scene. In the upper left corner, there is a white rectangular box with a black border and a small tail pointing towards the top left, containing the title text.

BLUE LIGHT IN AGRICULTURE

ULTRAVIOLET LIGHT





INFRARED LIGHT





PRECISION AGRICULTURE AND LIGHT
TECHNOLOGY

An aerial photograph of a vast, lush green agricultural field, likely corn. A tractor is visible in the center, pulling a long spray boom that extends across the field, emitting a fine mist of spray. The rows of crops are tightly packed and stretch towards the horizon. The lighting is bright, suggesting a sunny day, with a slight lens flare effect in the upper right corner.

THE BENEFITS
OF LIGHT
TECHNOLOGY IN
AGRICULTURE

SUMMARY

The electromagnetic spectrum includes many types of light, some of which are visible.

Different colors of light affect plant growth differently.

Farmers use light technology to improve crop production and sustainability.

THANK YOU!



THANK YOU FOR LEARNING ABOUT THE
ELECTROMAGNETIC SPECTRUM AND AGRICULTURE



DO YOU HAVE ANY QUESTIONS?

