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ACCELERATE PLANT FLOWERING FOR  
**HIGHER BIOMASS YIELDS**

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**TRIGGER AND  
ACCELERATE THE  
FLOWER CYCLE OF  
ANY SHORT-DAY  
PLANT**



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**INCREASE YIELDS AND PROFITS UP TO 16%**

**R**ed Bud Lighting has a patented process for “tricking” plants into accelerating their phytochrome system which moves “short day plants” from vegetative into their flowering and growth cycle.

We invite you to learn more about how Red Bud Lighting’s technology can make you more money.

Email: [skip@redbudlighting.com](mailto:skip@redbudlighting.com)

Call: 828-329-5030

Email: [gary@redbudlighting.com](mailto:gary@redbudlighting.com)

Call: 503-319-5779





## A NATURAL PROCESS TO ACCELERATE SHORT-DAY PLANT FLOWERING

**M**other Nature is a natural process for moving “short day plants” from vegetative into their flowering and growth cycle. Red Bud Lighting is a natural process to accelerate this cycle.

**T**he key to acceleration is the application of a burst of far red light between 730-780nm wavelengths.

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Short-Day plants have developed a biochemical mechanism regulated by the Phytochrome compound that changes form based on the number of hours of darkness or light but even more specifically based on the wavelengths of light the plant is exposed to.







## THE PROCESS FOR A BIOMASS YIELD IMPROVEMENT

A patented process for “tricking” the plants into accelerating their phytochrome system.

- Our invention induces early flowering by manipulating exposure of the plants to a flash of far red light.
- This flash of far red light is performed at sunset, when there is still more than 12 hours of sunlight.
- This additional daylight will allow the plant to develop larger biomass, with results showing increases between 10-23%.
- Our patented process can be implemented either as a license or a service.
- United States Patent No. US 11,576,247 B2



### CASE STUDY: “THE RESULTS WERE THE BEST CANNABIS YEAR THIS FARM HAS EVER SEEN.”

In 2022, Wiseacre Farm, Inc. grew a 5,000 Square Foot plot and used the Red Bud Lighting process on the entire crop. The results were the best Cannabis year this farm has ever seen, growing 810 lbs. or 367.5 KG of wet biomass in a 5000 sq ft field in NW MA. (73.5 grams per square foot)

A group of 10 control plants were subjected to either far red light (5) or no far red light exposure (5). The control plants with far red light yielded 15275 grams, while the control plants with no exposure yielded 13,680 grams.

This was a true 11.65% biomass increase!

# KEY INDUSTRY CONCERNS



## Staging of the Harvest

Process can be used to time the maturity of different sections of the grow to deploy harvest labor more effectively.



## Climate Concerns

Increased biomass yields reduces the amount of plants necessary, i.e. reducing the footprint of the farm.



## Grow Tropical Varieties in Northern Climates

Above certain latitudes, there is just not enough time prior to the onset of cool and wet

## TARGET MARKET POTENTIAL...

### USA Cannabis

35.0M Sqft, 6.0M Lbs., \$6.0 Billion  
40 grams per Sqft, \$1,000 wholesale price

WW - \$42.0B  
Mostly indoor grown

### Canada Cannabis

93.0M Sqft, 10.0M Lbs., \$10.0Billion  
20% greenhouse, 80% outdoors

### USA Cotton

7.0B Lbs., \$4.0 Billion  
14M bales @500 Lbs, wholesale price \$0.58

WW - \$38.0B

### USA Rice

2.8M Acres, 20.0B Lbs., \$5.8 Billion  
2% of world production, wholesale price of \$0.24  
AK,CA,LA,MS,MO,TX

WW - \$290.0B

### USA Tobacco

13.0B Lbs, \$29.0 Billion  
4.6% of world production, wholesale price \$2.24

WW - \$940.0B



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[www.redbudlighting.com](http://www.redbudlighting.com)

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