red barn

Vita Plus Custom Harvester Meeting
"They Said"

Peter Hughes
Red Barn Consulting

1

Hemp 101

The 2018 Farm Bill Legalized the (regulated) production of Hemp

Uses for Industrial Hemp Plants:

1. **Fiber:** Textiles, Clothes, paper products and building materials
2. **Grain / Seed:** Animal feed, protein flour, oil, food supplements
3. **CBD:** Oil extraction from hemp buds, and flower

2

Hemp for CBD

Hemp Plants are very bushy, and may reach heights of 6 to 10 feet. These plants are grown and harvested for cannabidiol (CBD) which has many potential health applications. Only female plants are used.

- **Planting Time:** Clones or other starters may be transplanted outdoors by mid-June. Greenhouse systems planted year round.
- **Planting Method:** By hand or by transplanter when using clones or starts. AutoFlower may be direct seeded new this year.
- **Planting Rate**: 800-1,500 plants / acre, spaced 4-6 feet apart.
- **Harvest time:** Female plants grown to near maturity, mid-September to mid-October. Usually a 90 day window.
- **Harvest method**: Cut by hand, weed whackers, new hemp harvesting technologies.
- **Post-harvest handling:** Hung dried, many different drying methods dependent on technology used. Huge bottleneck. 75% to 10%

3

Industrial Hemp Harvester: Formation Ag

4

Clean Cut Harvester

The CleanCut is designed for harvesting tough and fibrous crops while maintaining gentle handling of cut material. Cut material lands on an oversized draper conveyor and conveyed to right side of header.

Cut plants are conveyed into an offload conveyor and into a truck or cart driving alongside the harvester. The offload conveyor can be detached for windrowing plants alongside the cutting path.

The CleanCut can be mounted to an already existing equipment and loader arms or three point front. Hydraulics for belting, cutting blades, reel speeds, and offloading controlled in-cab for on the fly adjustments.

200 HP or more and PTO driven hydraulic capacities are recommended.

Averaged 5 acres an hour harvest. Completely determined by drying Method and wagon / truck transportation.
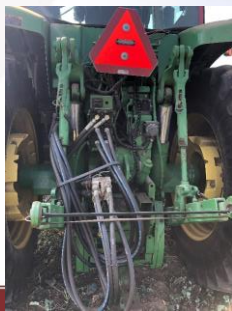
5

6

7

8

9

Variety of Hemp Harvest Carts

10

11

Hang Drying Barns / Hoop Structures

12

6

2019 Hemp Harvest in Southern Vermont

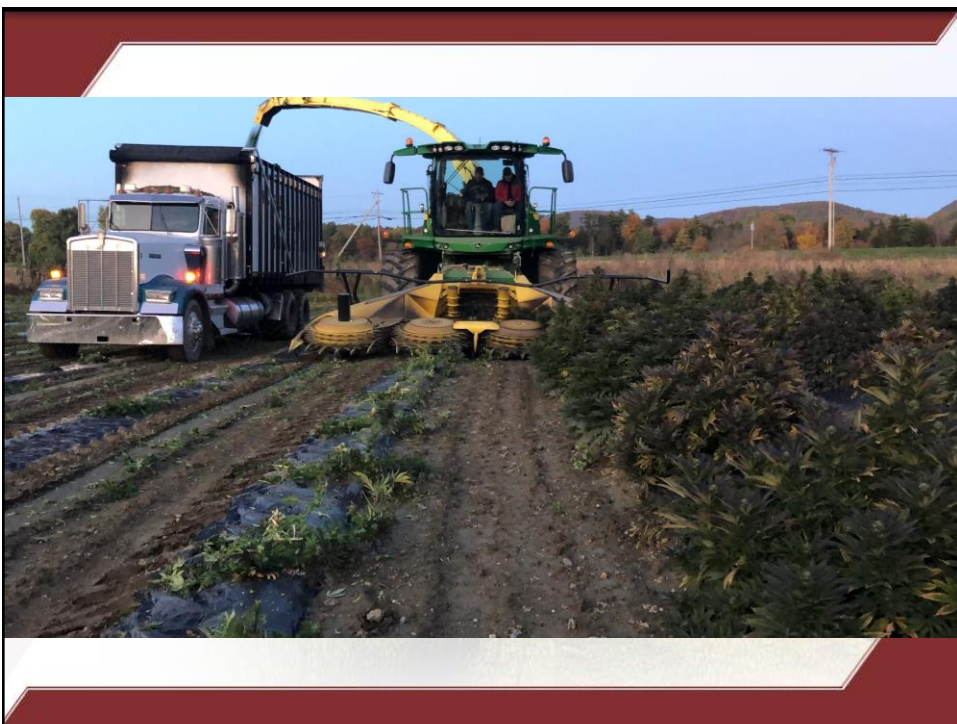## 60 Acre CBD Field: Hawaiian Haze and Lifter

15

16

17

18

19

20

10

21

Powell 6031

22

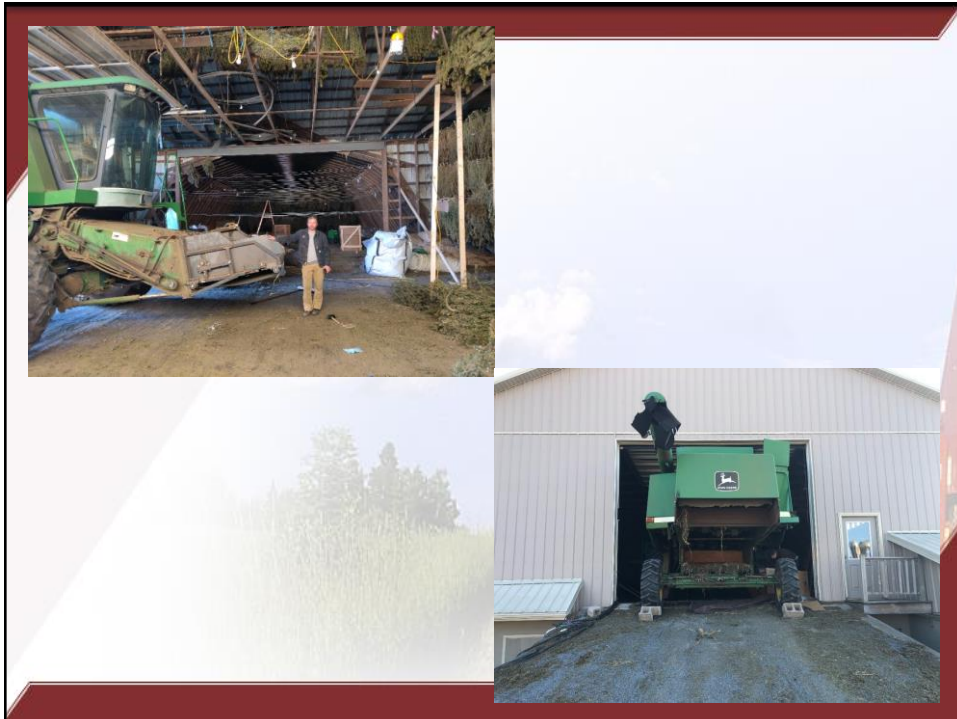23

24

25

26

27

Joes Machine Shop Lancaster PA

28

JD 9600 Modifications

29

30

31

Constant Cleaning
and Maintenance

32

33

34

Peter Hughes
Red Barn Consulting
peterh@redbarnag.com
717-393-2176

35