

Grow Better Margins and Better Plants



Profile/AgriNomix Container Filling Trials

Objective


- Determine optimal equipment settings to uniformly and adequately fill small celled packs to minimize shrink.
 - HydraFiber's fluffy nature and ability to form a matrix can cause issues filling small containers.

Container Filling

- Mixes Tried:
 - 80% Peat: 20% Perlite
 - 80% Peat: 20% HydraFiber 160WB
 - 70% Peat: 30% HydraFiber 160WB
 - 65% Coir: 35% Peat
 - 65% Coir: 35% HydraFiber 065WB
- Containers Tried
 - 1006 cell packs
 - 804 cell packs
 - 72 cell trays (not shown)

The Setup

- Trials conducted at AgriNomix on KVXL pot and flat filler.
- Used prototype agitator unit at approx. 300 rpms.
- Targeted approximately 2-3" layer of media on top of tray before plow.
- Plow raised approximately 2" above top of flats.
- Compactor lowered to as close to top of flat as possible.
- Ran some trials on KV98 (drag chain and propeller)

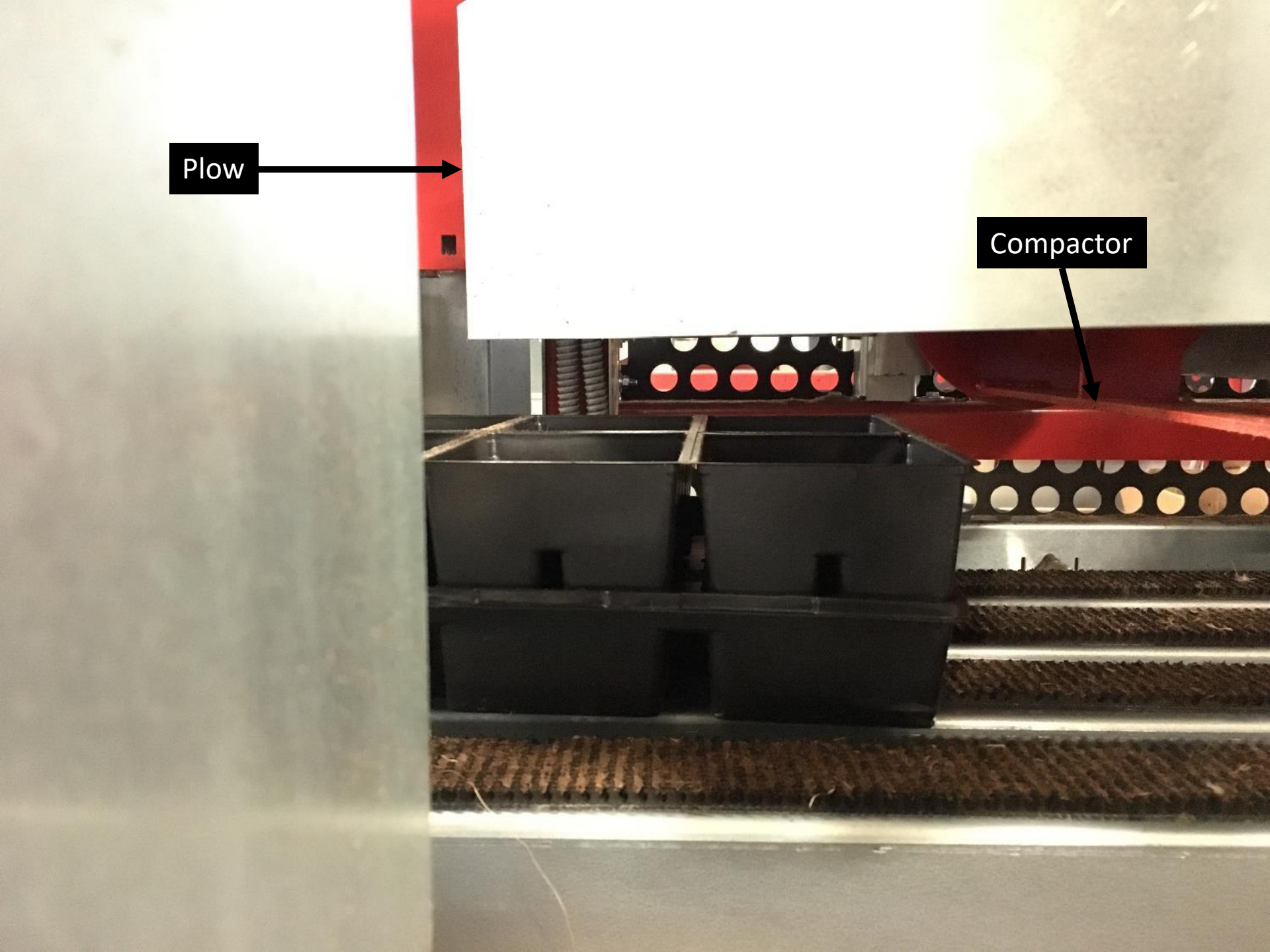


Plow raised approx. 2" above top of flat

Plow



Compactor



Agitator Prototype



Agitator Prototype



1006 Flats

65% Coir: 35% Peat

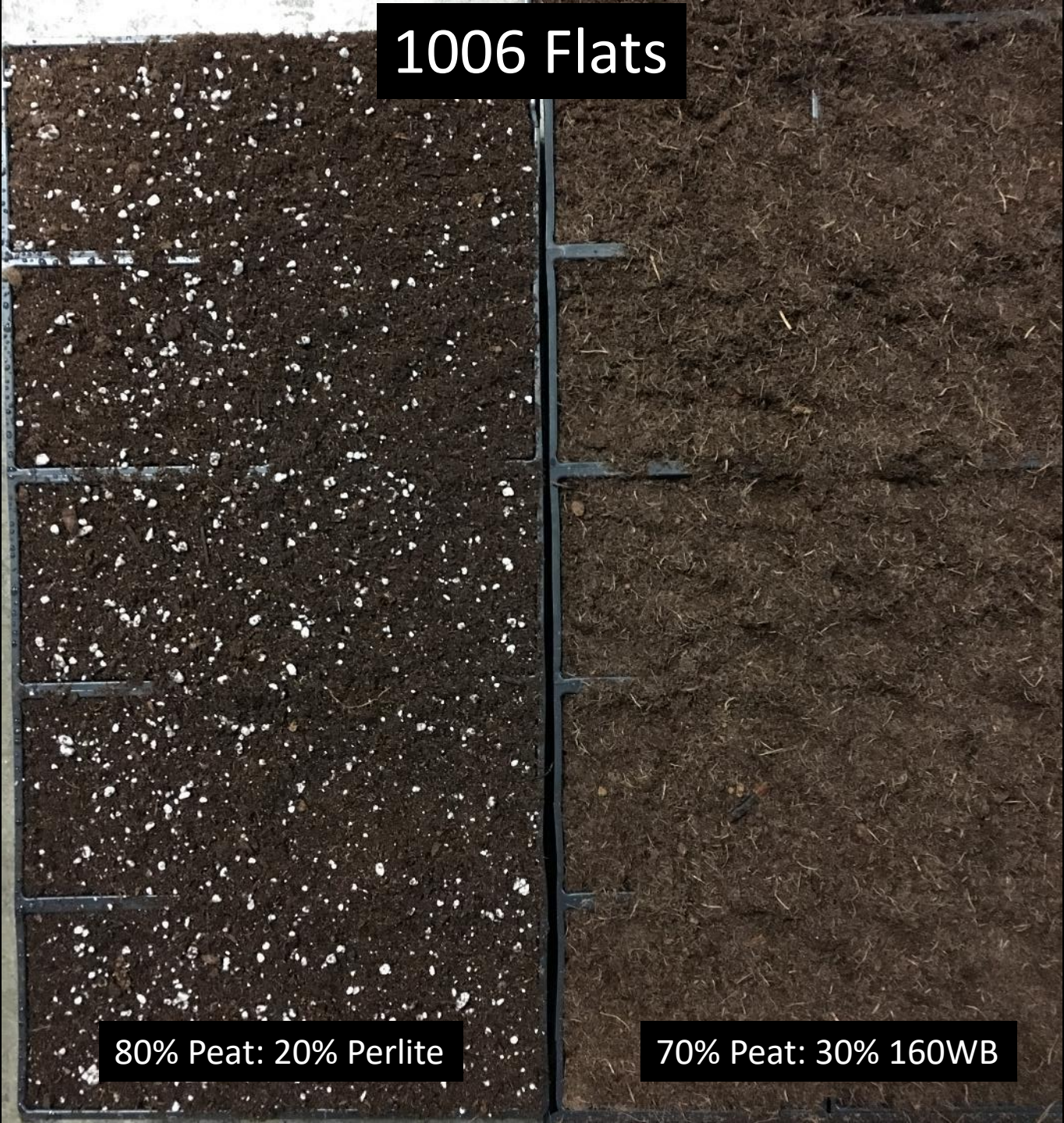
65% Coir: 35% 065WB



1006 Flats

80% Peat: 20% Perlite

70% Peat: 30% 160WB



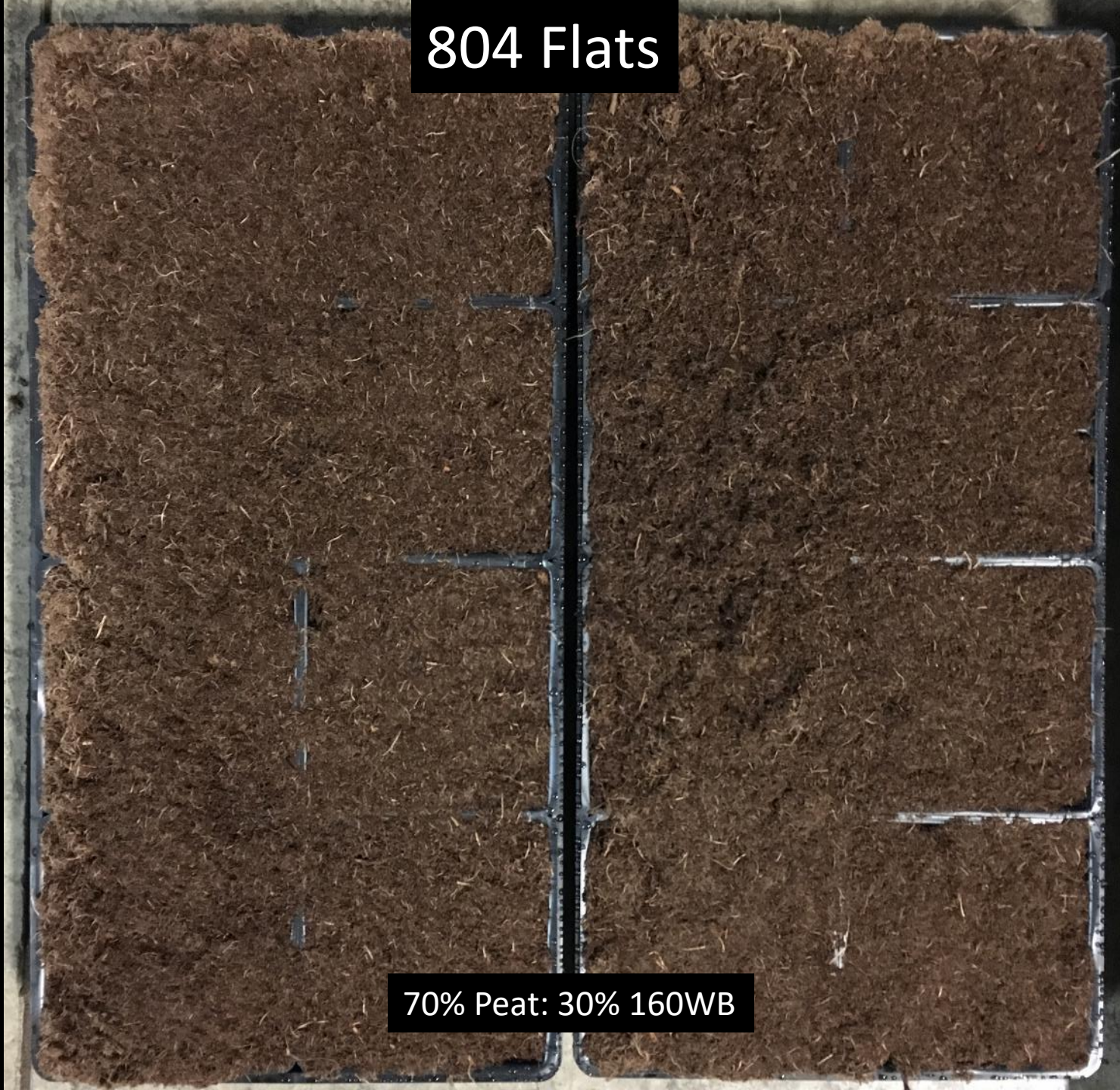
1006 Flats

80% Peat: 20% Perlite

80% Peat: 20% 160WB

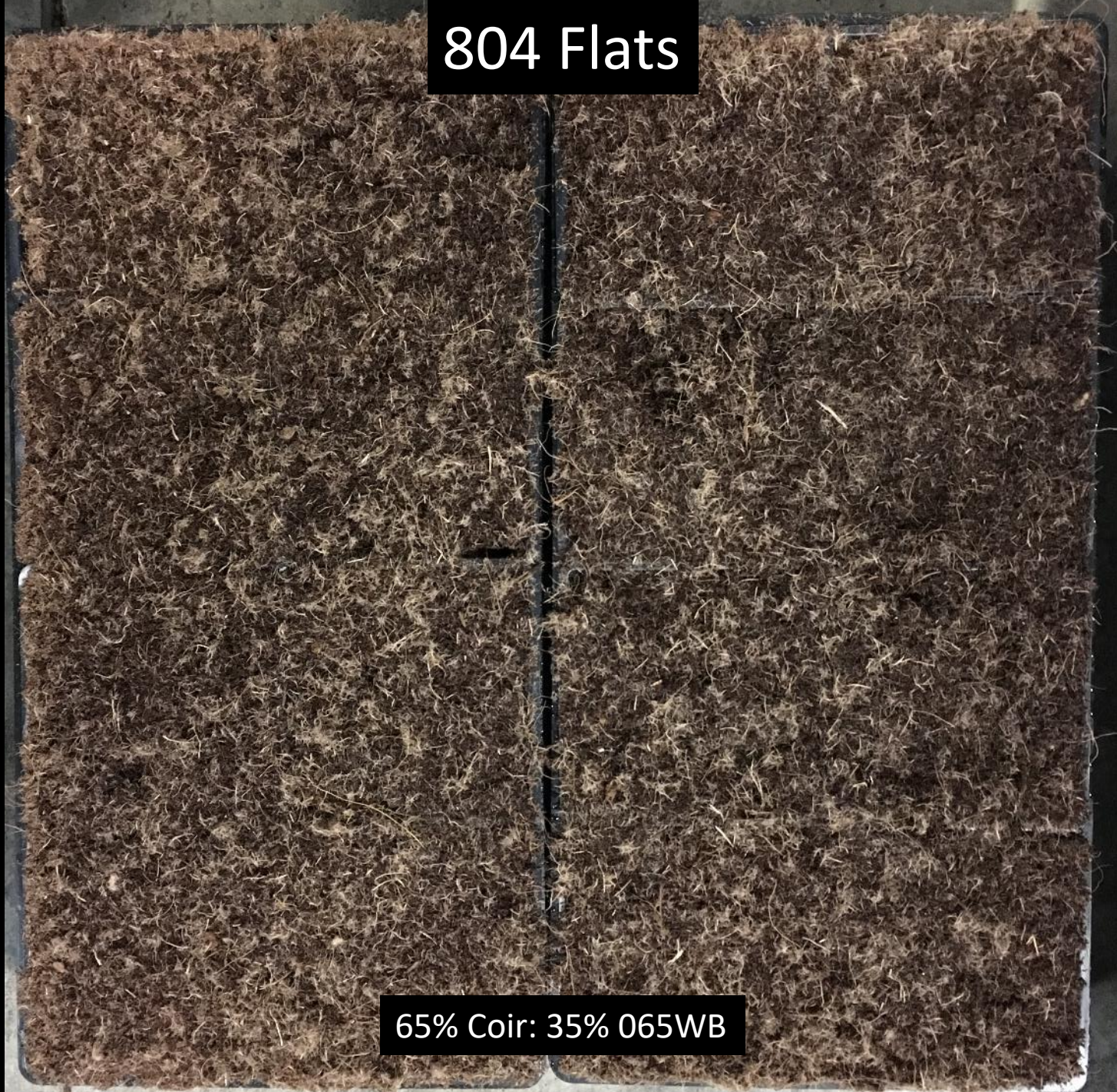
804 Flats

70% Peat: 30% 160WB



804 Flats

65% Coir: 35% 065WB



Results

- Agitator provided excellent fill; no voids and firm cells.
 - Even after wetting and running through transplanter, HF mixes held up well.
- Plows set too low can rake.
- 72 cell trays 80-90% fill
- KV98 performed well by adjusting drop and propeller.



Additional Considerations

- Manage flow is key.
- Correct moisture.
- Plow high; compactor low.
- Soil returns.
- Propellers work.
- Increase transplanter depth settings.

HydraFiber Filler Attachment



Customer Flat Filling





Petunia 'Hells Glow' – 72 cell tray



Calibrachoa – 105 cell tray



Calibrachoa – 105 cell tray



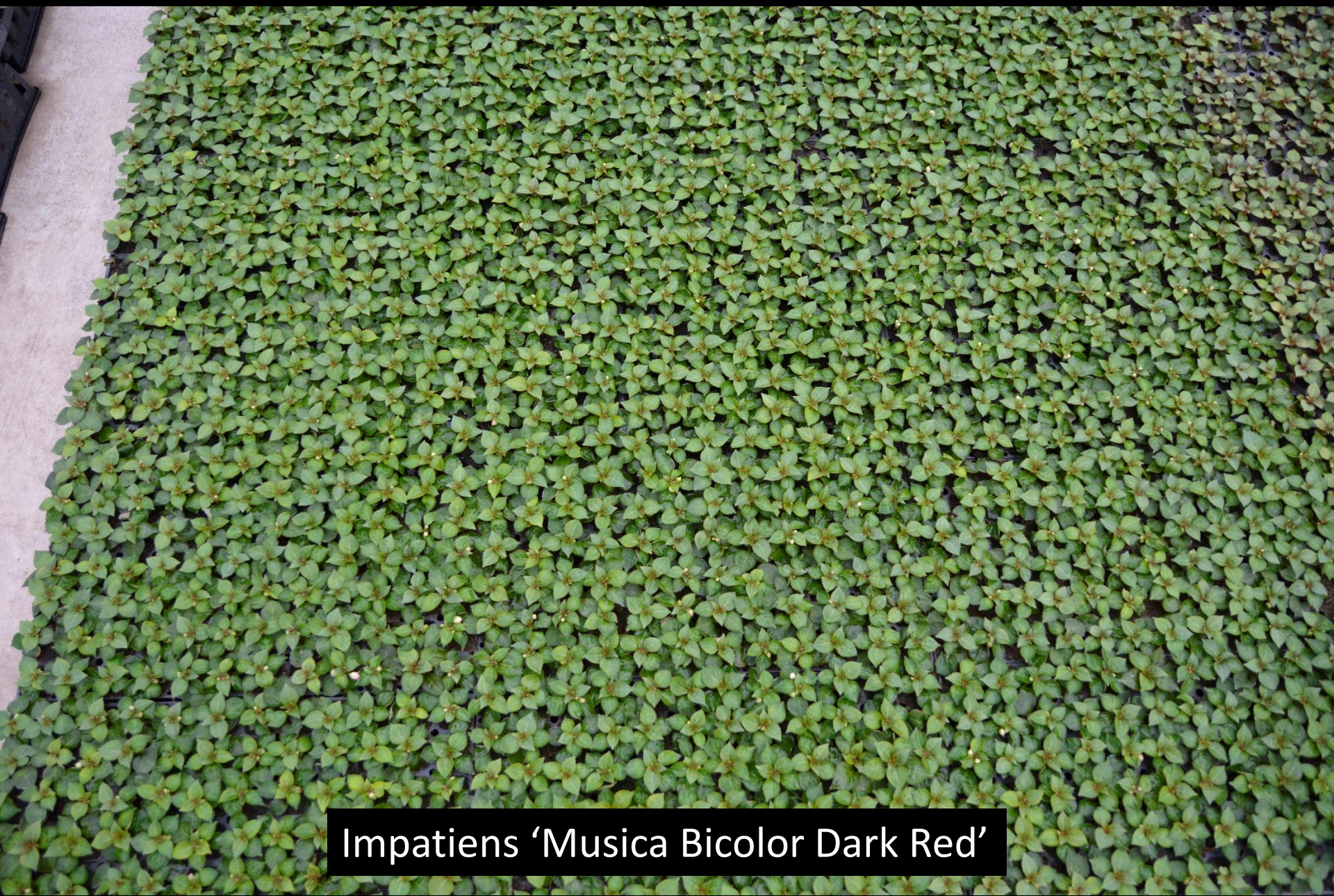
Verbena 'Lanai Upright Violet'



Verbena 'Lanai Upright Purple w/Eye'



Verbena 'Lanai Upright Purple w/Eye' – 105 cell tray



Impatiens 'Musica Bicolor Dark Red'



Impatiens 'Musica Bicolor Dark Red'



Impatiens 'Musica Bicolor Dark Red'



Calibrachoa 'Cabaret Blue Deep'



Calibrachoa 'Cabaret Blue Deep'



Calibrachoa 'Cabaret Blue Deep'



Gaura



Cuphea – 162 cell tray