

USDA AUTOMATION UPDATE

DEMONSTRATION

VIDEO

CONVENTIONAL USDA INSTRUMENT CLASSIFICATION



- COUPLED
- BOTH CABINETS CABLED TOGETHER
- CONDITIONING
 - REQUIRES ENTIRE SAMPLE TO BE CONDITIONED
 - LARGE EQUIPMENT REQUIRED
 - 10 MINUTE CONDITIONING TIME
 - TRAY CONTAINS 10 – 15 SAMPLES
 - OPERATOR HANDLES 80 TRAYS PER DAY
 - FATIGUE
- MICRONAIRE DONE BY OPERATOR
 - NARROW WEIGHT RANGE
 - PLACING SAMPLE IN CHAMBER IS IMPORTANT

CONDITIONING & CONVEYANCE SYSTEM CCS ABILENE, TEXAS



- COUPLED
- TRAY CONTAINS SINGLE SAMPLE
 - NO HANDLING TRAYS
 - REDUCES OPERATOR FATIGUE
 - PRODUCTION INCREASES
- CONDITIONING
 - ONLY SUB SAMPLES CONDITIONED
 - SMALLER EQUIPMENT
 - 2 MINUTE CONDITIONING TIME
- REQUIRES HVI 1000 AUTOMIC
 - MICRONAIRE SAMPLE PRE-WEIGHED
- OCTOBER 2015 ~ 1,000,000 SAMPLES
- 2016 ~ 1,600,000 SAMPLES
- 2017 ~ 1,800,000 SAMPLES

CONDITIONING & CONVEYANCE SYSTEM CCS LUBBOCK, TEXAS



- COUPLED
- TRAY CONTAINS SINGLE SAMPLE
 - NO HANDLING TRAYS
 - REDUCES OPERATOR FATIGUE
 - PRODUCTION INCREASES
- CONDITIONING
 - ONLY SUB SAMPLES CONDITIONED
 - SMALLER EQUIPMENT
 - 2 MINUTE CONDITIONING TIME
- REQUIRES HVI 1000 AUTOMIC
 - MICRONAIRE SAMPLE PRE-WEIGHED
- INSTALLED OCTOBER 2015 ~ 1,000,000

COTTON ACQUISITION & TRACKING MODULAR SYSTEM CMS



- DE-COUPLED
- HVI 1000 AUTOMATIC REQUIRED
 - EACH CABINET IS INDEPENDENT WITH ITS OWN COMPUTER
 - SENDS DATA INDEPENDENTLY
 - COLOR / TRASH
 - LENGTH / STRENGTH
- NO TRAYS
- INDEXING CONVEYOR SYSTEM WITH RADIO FREQUENCY IDENTIFICATION TAGS FOR TRACKING
- MECHANICAL SUB-SAMPLING
- CONDITIONING
 - SMALLER EQUIPMENT
 - 2 MINUTE CONDITIONING TIME

CONDITIONING & CONVEYANCE SYSTEM MEMPHIS, TENNESSEE



- DECOUPLED
- HVI 1000 AUTOMATIC REQUIRED
 - EACH CABINET IS INDEPENDENT WITH ITS OWN COMPUTER
 - SENDS DATA INDEPENDENTLY
 - COLOR / TRASH
 - LENGTH / STRENGTH
- TRAYS
- ACCUMULATION CONVEYOR SYSTEM WITH RADIO FREQUENCY IDENTIFICATION TAGS FOR TRACKING
- HUMAN SUB-SAMPLING AND LOADING
- CONDITIONING
 - SMALLER CONDITIONING AREA
 - FASTER CONDITIONING TIME
- OCTOBER 2017 CLASSED 400,000