2015 Progress Report – Project 2020: Optimizing Sweet Cherry Orchard Design & Efficiency

Source: Gregory A. Lang, Michigan State University, presented to the IFTA Research Committee and appeared in „Compact Fruit Tree, Edition Dec. 2016“

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1) KYB Kym Green Bush / KGB
2) Tall Spindle AXE / Normale Spindel
3) Super Slender AXE / Super Spindel
4) UFO (Upright fruiting offshoots) / UFO
Darstellung 1: Baumquerschnitt

Figure 1: Tree vigor

FIGURE 1 – 2015 TREE VIGOR (TRUNK CROSS-SECTIONAL AREAS, TCSA) FOR THE 2010 NC140 BENTON TRAINING SYSTEMS X ROOTSTOCK TRIAL UNDER RETRACTABLE ROOF (LEFT, CRAVO) OR POLE-AND-CABLE (RIGHT, VOEN) ORCHARD COVERING STRUCTURES AT THE MSU CLARKSVILLE RESEARCH CENTER. GI = GISELA ROOTSTOCK; KGB = KYM GREEN BUSH, TSA = TALL SPINDLE AXE, SSA = SUPER SLENDER AXE, UFO = UPRIGHT FRUITING OFFSHOOTS. 1 CM² = 0.15 IN².
Figure 2: Mean Total Shoot Length
Figure 3: Mean Tree Yield (kg)

Darstellung 3: Baumtragen (kg)
Figure 4: Mean Average Fruit Weight

Darstellung 4: Fruchtgewicht (g)
Figure 5 - 2015 SWEET CHERRY BRIX LEVELS FOR THE 2010 NC140 BENTON TRAINING SYSTEMS X ROOTSTOCK TRIAL, MSU CLARKSVILLE RESEARCH CENTER: CRAVO = AUTOMATED RETRACTABLE ROOF PROTECTED ORCHARD, VOEN = FIXED RAIN-COVER PROTECTED ORCHARD.
Darstellung 6: Festigkeit (g / mm)

Figure 6: Mean Firmness (g / mm)

FIGURE 6 – 2015 SWEET CHERRY FIRMNESS LEVELS FOR THE 2010 NC140 BENTON TRAINING SYSTEMS X ROOTSTOCK TRIAL, MSU CLARKSVILLE RESEARCH CENTER. CRAVO = AUTOMATED RETRACTABLE ROOF PROTECTED ORCHARD, VOEN = FIXED RAIN-COVER PROTECTED ORCHARD.