## QUARTERLY & FINAL PROGRESS REPORT FORM: Control of Citrus Greening, Canker & Emerging Diseases of Citrus

SELECT PI	ERIOD	July	0	2021	Quarterly Report Final	2
Proposal Title						工造正
Near-term ap and improve			alter	native HLB-	tolerant cultivars for increased production	
Today's Date	Sponsor	ring Organiza	tion (	drop-down)	Category (drop down)	
8/12/2020	Citru	s Resear	ch a	nd Develo	opment Founda Other	
This project, and the project, and the sensory and the sensory and sensory panels blends sensory panels familiar with blended juice evaluation or and 90/10 bl Valencia ora aspect, 90/10 were asked the without tastimeration of orange information were asked the without tastimeration of orange acceptance of blends had an umber of control of the Citrus previous quarter, so imidentify a chee quarter, so imidentify key for non-volatile of correlation be flavonoids ar sour attribute while citrusy attribute while	will end a the prog a sweet o and cons 100% V led juice elists. Pa orange j e was rain n sensor ended juice o Valence o Valence their gen nge juice i o Valence their gen ge juice i of tanger botter p onsumer e potenti a lavor con chemical m a train etween t etween to and de e octana ute. The addition	at the end of ress of each range/man sumer stud (alencia juid, and the sa anelists we uice. Comp ted significa y attributes ices receive blended v ia/Sugar B eral opinio pecific sam For examp illected in the n blended ine juice is performance s holding n al improver y and this a bjective 2. definition of arter we for mpounds in ls were det ed sensory he sweet a chemicals a oids were h monstratece al, decanal, correlation , pathway of	of Och objectives of Och objec	tober, 2021 jective is list o cultivars vi Valencia ble 0% Valencia 100% comme- e-screened to 100% com e-screened to 100% com higher in ov sweetness, igher ratings Sugar Belle bended jui their willingr it was obse he 100% ora ext quarter to s and the re ently limited sensory eval al opinion on on acceptate e will be pub tify more tol sumer accept d on data an verse group hed by MS s el. The resu ute and othe sensory attril / correlated tribution to to the ton to to hean analy	ic report-do not disclose proprietary information or intellectual property) ,so this is the second to last report. There are two objectives in this ted here:Objective 1. Evaluation of blended juice using released a analyses of sensory and consumer acceptance. In this quarter, we did ended with Sugar Belle at the end of May. In this study, 100% Sugar a and 10% Sugar Belle@ blended juice, 50% Valencia and 50% Sugar nercial NFC orange juice consumption frequency to ensure they are pormercial NFC orange juice consumption frequency to ensure they are pormercial NFC orange juice, 50% Valencia and 50% Sugar Belle@ verall appearance, overall liking and flavor liking. In the subsequent , bitterness and sourness etc.) that are closely related to fruit quality, 50/5 s on sweetness, lower ratings on sourness and bitterness, which indicate @ increased the consumer preference. In addition, from the sensory ice were preferred the most by consumers. Surprisingly, when panelists ness-to-pay of 100% orange juice and mandarin and orange blended juic erved that they expected to pay higher price for juice containing higher inge juice receiving the most votes on \$3.49 per 52 FL oz. More o explain the mismatch between willingness-to-pay expectation for known sults obtained from the real tasting environment. Even though the , it was noteworthy that the Valencia orange juice and Sugar Belle® juice luation than that of pure orange juice. In addition, there were considerabl in juice quality and willingness-to-pay of blended orange and mandarin juic nee and consumption of mandarin juice in the future. We wrote an article lished in September based on our findings from this guarter and the errant cultivars resembling the quality of Valencia for the juice market, and the of citrus fruits through multivariate statistical analysis. Volatile and spectrometric techniques while the rating of sensory attributes was lists of Pearson Correlation showed the extent of positive/negative er sensory attributes in different groups of citrus fruits. Based	50 d e e c e d

PI First Name Yu PI Last Name Wang Email yu.wang@ufl.edu Phone 863-956-8673 Organization IFAS/CREC Sponsor Project Number 19-024 Project Duration (years 2 Year of Project 2 % Completion of Objectives 90

Form PR-19 Quarterly Report