

NEW AGE MANGOES

STEPHEN BRADY

HISTORY OF MANGOES

- IN FLORIDA FOR ABOUT 200 YEARS
- STARTED WITH JUST 'TURPENTINE'
- GENES FROM INDIA ADDED IN THE 1890'S
- HADEN BECAME *THE MANGO* STARTING IN THE 1930'S
- A FEW CULTIVARS SELECTED IN THE 40'S THROUGH THE 80'S

HISTORY OF MANGOES CONTINUED

- RICHARD CAMPBELL STARTED INTENSIVELY COLLECTING AND EVALUATING MANGOES IN THE 1990'S
- PROTOCOLS FOR REPRODUCIBLE EVALUATIONS INCLUDING SYSTEMATIC TASTING WERE DEVELOPED BY NORIS LEDESMA
- VARIETIES UNKNOWN IN FLORIDA WERE BROUGHT IN AND TESTED UNDER OUR CONDITIONS
- A LARGE NUMBER OF SEEDLINGS OF GOOD TO GREAT MANGOES WERE TRIALED TO PRODUCE THE CURRENT GENERATION

TURPENTINE

- BIG TREE AND SMALL FRUIT
- GOOD PRODUCTION
- VERY FIBROUS
- GOOD FLAVOR
- POOR DISEASE RESISTANCE
- IN THE BACKGROUND OF MOST MODERN FLORIDA MANGOES



TURPENTINE CONTINUED

- ITS ROOTS ARE VERY SALT TOLERANT
- IT BEARS WELL EVERY YEAR
- MAYBE CLOSE TO THE 'WILD TYPE' MANGO
- EXCELLENT ROOTSTOCK
- DIFFICULT TO CONTROL

HADEN

- APPEARED AS A SEEDLING IN COCONUT GROVE IN THE EARLY 1900'S
- A CHANCE SEEDLING OF A TREE LABELED 'MULGOBA' AND TURPENTINE
- MUCH BETTER THAN EITHER PARENT
- BECAME THE MOST WIDELY GROWN NAMED CULTIVAR IN THE WORLD
- MANY PEOPLES' FAVORITE MANGO



HADEN CONTINUED

- NATURALLY HUGE TREE
- HEAVY BUT ALTERNATE BEARER
- POOR DISEASE RESISTANCE
- GREAT MANGO IN ITS TIME BUT HAS BEEN SUPERSEDED BY NEWER AND MUCH BETTER CULTIVARS
- NONETHELESS, STILL WIDELY GROWN

THE MODERN MANGO

- MODEST SIZE - EASILY MAINTAINED TREE
- GOOD PRODUCTIVITY
- EASY TO CONTROL DISEASES
- ANNUAL BEARING
- GREAT TASTE AND LITTLE FIBER

A PERFECT MANGO TREE

- PERFECT, CLEAN, WELL-SPACED FRUIT
- ALL PARTS OF THE TREE ACCESSIBLE
- GOOD LIGHT PENETRATION
- EASY-TO-MAINTAIN SIZE OF TREE
- PROPERLY PRUNED AND CULTIVATED ITS ENTIRE LIFE



KEY TO SUCCESSFUL MANGO CULTIVATION

- FULL SUN
- WELL-DRAINED SOIL
- PRUNE EARLY AND OFTEN
- LITTLE BUT TARGETED FERTILIZER
- MULCH BEYOND THE DRIPLINE BUT NOT AGAINST THE TRUNK

ANNUAL MANGO CALENDAR

- DECEMBER - INSECTICIDAL SOAP 2 OZ PER GALLON TWICE 10 DAYS APART
- JANUARY - MARCH - ACTINOVATE EVERY 10 DAYS AFTER FIRST FRUIT REACHES NICKEL SIZE AND THIN TO 3 PER PANICLE
- MARCH - MAY - CUT OUT ANY BRANCHES AFFECTED BY MALFORMATION, PLACE A PAD OF NEWSPAPER BETWEEN TOUCHING FRUITS, INSECTICIDAL SOAP EVERY 2 WEEKS
- MAY - OCTOBER - HARVEST YOUR FRUIT WHEN MATURE BUT NOT TREE RIPE

MANGO CALENDAR CONTINUED

- JUNE - SEPTEMBER - SPRAY FOLIAGE WITH SOLUBLE FERTILIZER (15-32-15) 2 WEEKS AFTER LAST FRUIT HARVESTED 1.5 TBS PER GALLON WITH SPREADER STICKER. WAIT 1 WEEK AND PRUNE THE TREE
- SEPTEMBER - OCTOBER - TIP PRUNE SUMMER GROWTH AND THIN AS NECESSARY. SPRAY WITH SOLUBLE FERTILIZER AFTERWARDS, MINOR ELEMENT SPRAY AS LAST FLUSH IS FULL SIZED BUT NOT HARDENED OFF
- DECEMBER - TIME TO START AGAIN

REALISTICALLY

- MANGOES USE A LOT OF POTASSIUM AND PHOSPHORUS
- APPLY 1/2 POUND OF POTASSIUM SULFATE PER INCH OF TRUNK DIAMETER EVERY FEBRUARY
- ONCE EVERY 4 YEARS ALSO APPLY 1/2 LB OF SUPER PHOSPHATE PER INCH OF TRUNK DIAMETER IN FEBRUARY
- IN CASE OF A HURRICANE, RESTORATION PRUNE YOUR TREES AND APPLY 1 LB 6-6-6 OR 8-2-10 PER INCH OF TRUNK

HARVESTING MANGOES

- HARVEST WHEN MATURE BUT NOT TREE-RIPE
- CLIP FRUIT AND LEAVE 1" OF STEM ON THE FRUIT
- QUICKLY WASH OFF ANY SAP WHICH DOES GET ON THE FRUIT
- RIPEN ON NEWSPAPER INSIDE



REALLY GOOD MANGOES

- THE BEST MANGO IS THE ONE YOU TRULY LOOK FORWARD TO EATING
- IT SHOULD BEAR RELIABLY
- IT SHOULD NOT BE DIFFICULT TO TAKE CARE OF
- IT SHOULD FRUIT WHEN YOU ARE HERE

CARRIE

MAY - JULY

MILD, PLEASANT FRAGRANCE

SWEET, JUICY FLESH

LITTLE FIBER

EASY TO KEEP SMALL

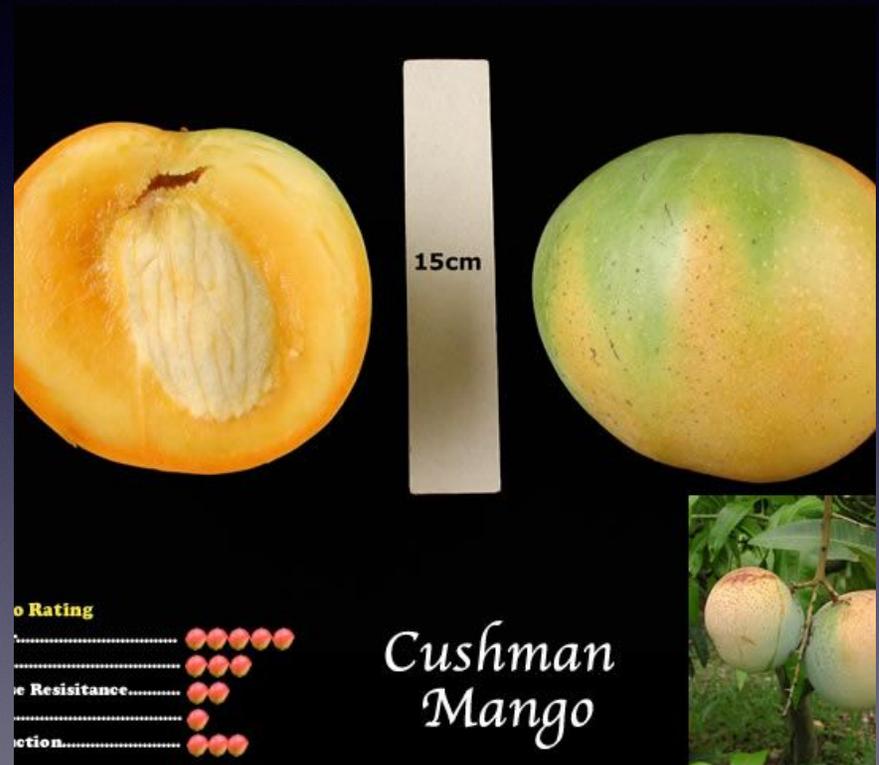
RELIABLE BEARING

GOOD COOKING MANGO



CUSHMAN

- JUNE - JULY
- RELIABLE BEARER
- INCREDIBLE FRAGRANCE AND FLAVOR
- LARGE FRUIT
- NEVER LET THE TREE GET BIG OR IT WILL STAY THAT WAY



GRAHAM

- SEEDLING OF JULIE - SIMILAR FLAVOR AND FRAGRANCE
- RELIABLE BEARER
- LATE JULY - EARLY SEPTEMBER
- LARGE FRUIT
- EASY TO CONTROL THE TREE SIZE
- GOOD DISEASE RESISTANCE



KEITT

- SEPTEMBER - OCTOBER
- LARGE FRUIT - EXCELLENT FLAVOR
- RELIABLE BEARER
- GOOD DISEASE RESISTANCE
- EASY TO CONTROL TREE SIZE



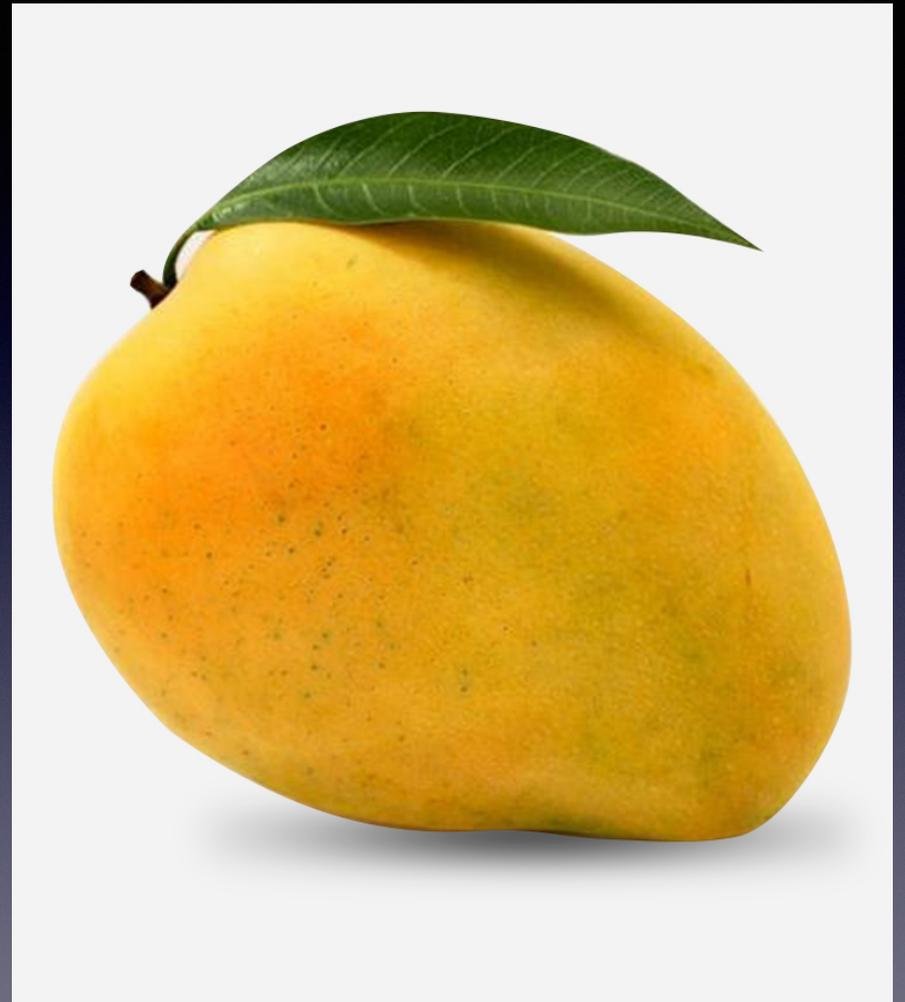
SUPER JULIE

COMPLEX FLAVOR AND FRAGRANCE
TREE MUCH LIKE GRAHAM
MOST WHO TASTE IT WANT TO
PLANT ONE
1+ POUND FRUITS
JUNE - JULY



JUMBO KESAR

NEW TO FLORIDA
SEEDLING OF KESAR
ORIGINATED IN INDIA
COMPLEX SPICY FLAVOR
GOOD PRODUCTION
GOOD DISEASE RESISTANCE



LEMON ZEST

GOOD PRODUCTION
COMPLEX LEMONY FLAVOR
DISEASE RESISTANCE IS
QUESTIONABLE
GOOD PRODUCTION



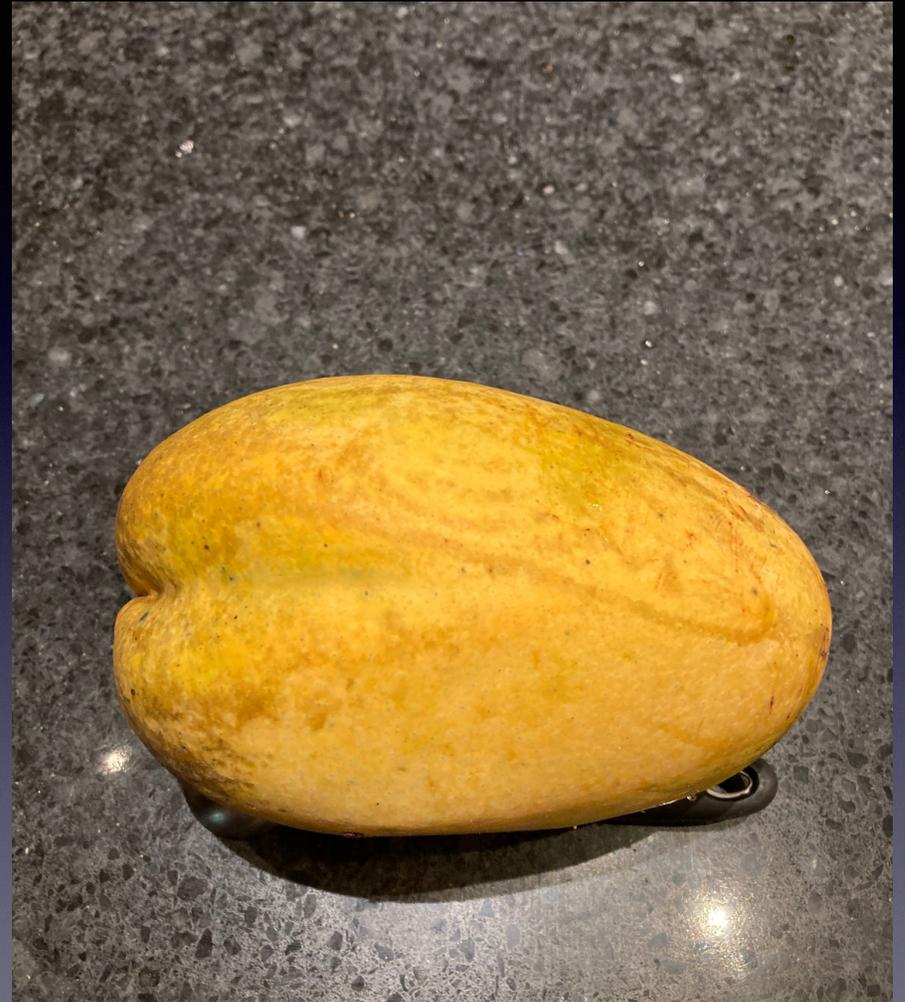
JUNO

- HYBRID OF CAMBODIANA AND M. RUBRAPETALA
- EXTREMELY INTENSE, COMPLEX FLAVOR
- GREAT PRODUCTION ANNUALLY
- FRUITS HANG IN CLUSTERS
- TENDS TO BE LARGE TREE SO PRUNE CAREFULLY EACH YEAR
- GOOD DISEASE RESISTANCE



JUNO

17 OUNCE FRUIT



FINAL THOUGHTS

- INSECTICIDAL SOAP IS VERY EASY TO PUT ON WITH THE ORTHO HOSE END SPRAYER - PUT IN THE CONCENTRATE AND ADD THE SAME AMOUNT OF HOT WATER AND SPRAY AT 4 OZ PER GALLON TO RUNOFF - UP AND DOWN ALL THE WAY AROUND THE TREE MAKING SURE TO WET THE TRUNK AND BRANCHES
- FOLIAR FERTILIZER AND ACTINOVATE SHOULD BE PUT ON WITH A 1-2 GALLON HAND SPRAYER

A WORD ABOUT COLD

- THERE ARE NO COLD-RESISTANT MANGOES - THEY ALL GET SOME DAMAGE IF THE TEMPERATURE DROPS BELOW 32
- A RADIATION FROST CAN OCCUR AT 42 IF THE DEW POINT GOES BELOW 22
- IF YOU KEEP YOUR TREES TO 6' TALL YOU CAN WRAP THEM IN FROST CLOTH AND PUT A LIGHT BULB INSIDE

QUESTIONS?

- NOTE: ALL PICTURES SAVE ONE WERE GLEEFULLY BORROWED FROM GOOGLE IMAGES - MANY THANKS TO THEM!