

### MANGO PERFORMANCE BENCHMARK REPORT

2014-2015



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### **APPROACH**

In order to conduct the following category review, Nielsen Perishables Group analyzed mango sub-category sales trends to create a historical reference for performance benchmarks

#### Areas of focus include:

- Overall category trends (including contribution to department, dollar sales, volume and pricing)
- Category contribution and trends by segment
- Seasonality
- Sales performance by geographic sub-region
- Fresh-cut mango only and mix sales trends
- PLU mango sales trends
- Organic mango sales trends



#### **APPROACH**

#### National Mango Board Custom Hierarchy

- The analysis primarily examines whole mango in Total US market for the 2015 calendar year, unless otherwise noted
- Fresh-cut mango only is separated from whole mango results
- Volume is measured in units; for those retailers who sell mangos by the pound, a conversion rate is used

#### About the Nielsen Perishables Group Data Set

- The data represents retail census sales data of total U.S. grocery store chains with more than \$2 million sales annually
- Data is captured in a universe called the Fresh Coverage Area (FCA) and includes ~18,000 stores nationwide
- Not included in the data set are small independent chains and alternative format retailers such as Whole Foods Market and Trader Joe's
- The data represents fruit items sold in the produce department including UPC, PLU and system-2 coded items



## TREND-SPOTTING: TROPICAL FRUIT AND WHOLE MANGOS



#### Tropical fruit category back on track

- After a 2% decline in 2014, tropical fruit dollars grew 11% in 2015
- Mangos are the category captain of tropical fruit with 44% of category dollars

#### Mangos roar back in 2015 after a difficult year in 2014

- Mango dollars per store/week increased 6% in 2015 after an 8% decline in 2014
- Mango volume per store/week increased 16% in 2015 after a 13% decline in 2014
- Mango dollars and volume increased in every quarter in 2015 except Q1 (dollars and volume declined by 15% and 19% respectively in Q1 2015)
- Average retail price per mango decreased in 2015, down 8% to \$ .98 each

#### Most sub-regions experienced mango increases in dollars and volume

- Only New England declined in both dollars and volume compared to 2014
- East North Central had the largest dollar increase, up 13% to \$173 mango dollars per store per week
- West South Central had the largest mango dollar contribution to department sales at 0.52%, up from .47% in 2014

# TREND-SPOTTING: PROMOTION AND PRICING



#### More mango volume sold on promotion

- 35% of mango volume was sold on promotion in 2015, up from 33% in 2014
- Q2 had the highest share sold on promotion at 38%

#### With abundant volume, retail mango prices drop

- Average retail price dropped 8% to \$ .98 each in 2015
- Promoted average retail price dropped 11% to \$ .77
- Non-promoted average retail price dropped 6% to \$1.09

#### Most sub-regions experienced mango increases in dollars and volume

- All sub-regions except Pacific had a decline in average mango price
- East North Central sub-region saw a 21% decline in average retail price to \$ .97
- West South Central sub-region had the lowest average retail price at \$ .76 each
- Mid Atlantic sub-region had the highest average retail price at \$1.22 per mango

# TREND-SPOTTING: ORGANIC MANGOS



#### Organic mango share hold steady, pricing increases

- Organic mangos account for 3% of mango dollars, which is a 0.4 percentage increase from 2014
- The Pacific sub-region has the greatest support for organic mangos, with an 8% share of dollars for 2015
- In the West South Central and West North Central sub-regions, organic mangos accounted for less than 1% share of mango dollars
- Average retail price for organic mangos increased 6% to \$2.05 each, compared to a 8% decrease for conventional fruit to \$0.96 each
- Organic mango pricing was highest in the Mid Atlantic sub-region at \$3.05 each and lowest in the Mountain sub-region at \$1.68

# TREND-SPOTTING: FRESH-CUT MANGOS



Fresh-cut mangos perform with strong growth and huge potential

- Fresh-cut mango dollars increased 29% to \$59.2 million in 2015
- Looking back further, fresh-cut mango dollars have shot up 47% from 2013 to 2015
- Fresh-cut mango dollars increased in 2015 in all nine sub-regions and in every quarter except Q1
- 96% of stores in the Fresh Coverage Area data set sold fresh-cut mango at some point in 2015, which is the highest distribution on record
- Three sub-regions had growth of more than 40% in fresh-cut sales in 2015 over 2014,
   West South Central (+54%), West North Central (+44%) and East South Central (+41%)

# TREND-SPOTTING: MANGOS GOING MAINSTREAM

Recent growth and future potential make mangos a focus item for retailers

- Historically, the strongest mango performance has been concentrated in areas with large Hispanic populations. In 2015, the East North Central sub-region (what would be considered the mid-western states) showed the strongest growth with a 43% increase in mango volume per store per week, bringing the mango mania to the heartland
- The number of stores promoting mangos on ad increased 52% from 2010 to 2015 (source: USDA AMS Retail Market Report)
- The likelihood of buying mangos is strongest amongst younger consumers (21 to 39) and those with the highest incomes (\$100k+) according the The Packer's Fresh Trends 2016 report
- With exposure to mangos starting with baby foods, the next generation will likely be more familiar, moving mangos from the "specialty fruit" role to a mainstream staple



# FRUIT AND TROPICAL FRUIT TRENDS FOR TOTAL U.S.

2014-2015

### TOP 25 FRUIT SALES & CONTRIBUTION TO PRODUCE



Overall, dollars per store/week for fruits increased, but contribution to the department decreased very slightly

- Apples had the largest contribution to the department
- Mangos increased in dollars per store/week, and maintained position #20 in the fruit ranking, the same position held by mangos in 2014 and 2013

Fruit Sales and Contribution Trends							
Product	Rank	Dollars per Store/Week	% Change vs YAGO	% Dollar Contribution to Department	%Change vs. YAGO		
Fruit		\$23,532	3.3%	46.8%	-0.1%		
Apples	1	\$2,961	-3.7%	5.9%	-0.4%		
Grapes	2	\$2,881	4.1%	5.7%	0.0%		
Bananas	3	\$2,690	-1.0%	5.4%	-0.2%		
Strawberries	4	\$2,098	4.1%	4.2%	0.0%		
Avocados	5	\$1,347	13.0%	2.7%	0.2%		
Mandarins	6	\$1,144	21.6%	2.3%	0.3%		
Blueberries	7	\$1,112	6.8%	2.2%	0.1%		
Oranges	8	\$851	0.1%	1.7%	-0.1%		
Watermelon	9	\$779	1.7%	1.6%	0.0%		
Raspberries	10	\$647	8.5%	1.3%	0.1%		
Cherries	11	\$636	2.2%	1.3%	0.0%		
Lemons	12	\$499	9.6%	1.0%	0.1%		
Peaches	13	\$448	-7.1%	0.9%	-0.1%		
Pears	14	\$394	-6.9%	0.8%	-0.1%		
Cantaloupe	15	\$358	0.0%	0.7%	0.0%		
Blackberries	16	\$353	11.8%	0.7%	0.1%		
Limes	17	\$286	-2.8%	0.6%	0.0%		
Pineapples	18	\$279	-4.3%	0.6%	0.0%		
Nectarines	19	\$272	-2.1%	0.5%	0.0%		
Mango	20	\$209	6.3%	0.4%	0.0%		
Plums	21	\$196	0.4%	0.4%	0.0%		
Grapefruit	22	\$173	3.0%	0.3%	0.0%		
Kiwi	23	\$118	11.8%	0.2%	0.0%		
Honeydew	24	\$79	2.2%	0.2%	0.0%		
Papaya	25	\$67	13.2%	0.1%	0.0%		

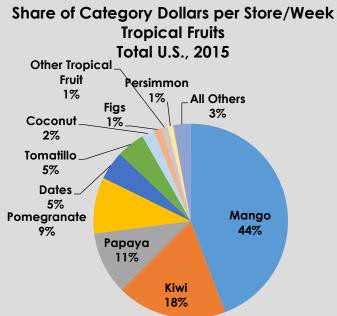
Source: Nielsen Perishables Group FreshFacts®, All Stores, 2015 vs. YAGO

### TROPICAL FRUITS SALES SHARE AND TRENDS



Overall, tropical fruits increased in dollars per store/week in 2015, up by 11% over the prior year

- Mangos had the largest sub-category share at 44% and increased dollars per store/week by 11% versus 2014
- Kiwi had the second highest share and had double-digit dollars per store/week growth, up 12%
- Most tropical fruit sub-categories grew in dollars per store/week over the prior year with the exception of pomegranate and persimmon, which declined



	Dollars per Store/Week % Change vs YAGO		
Total Tropical Fruit	11%		
Mango	11%		
Kiwi	12%		
Papaya	13.2%		
Pomegranate	-1%		
Dates	24%		
Tomatillo	7%		
Coconut	11%		
Figs	6%		
Persimmon	-5%		

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# WHOLE MANGO TRENDS FOR TOTAL U.S.

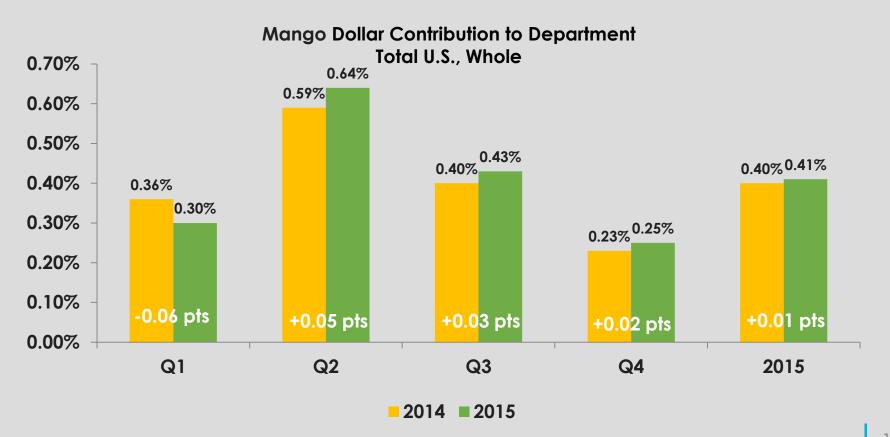
2014-2015

### MANGO CONTRIBUTION TO DEPARTMENT SALES



Overall, mango dollar contribution to the produce department slightly increased compared to the prior year

The peak mango contribution to the department was during Q2

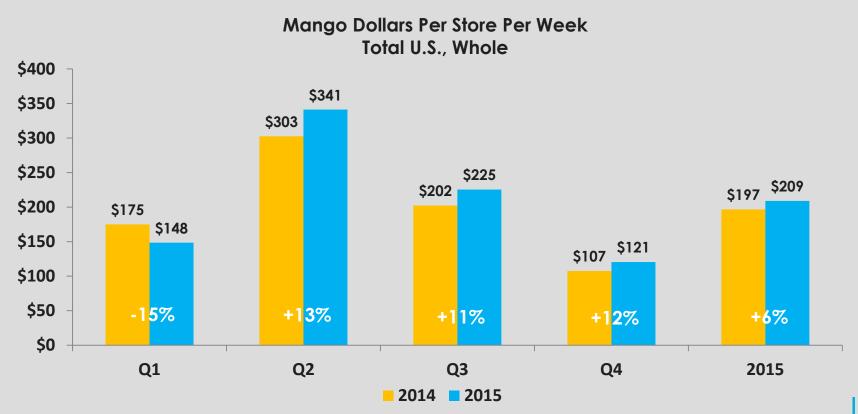


### MANGO AVG DOLLARS PER STORE PER WEEK SALES



Dollars per store per week for 2015 increased 6% compared to 2014

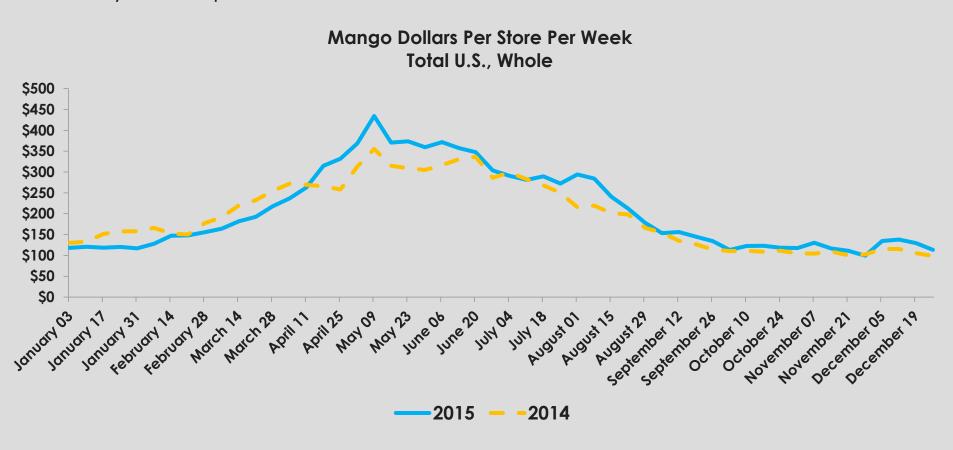
- Dollar velocity peaked during Q2 at \$341 per store per week, an increase of 13% from the prior year
- Q1 was the only quarter that decreased dollars per store per week from the prior year



## MANGO WEEKLY DOLLAR SALES PER STORE



Mango dollars per store per week were lower than the prior year from January until April 2015

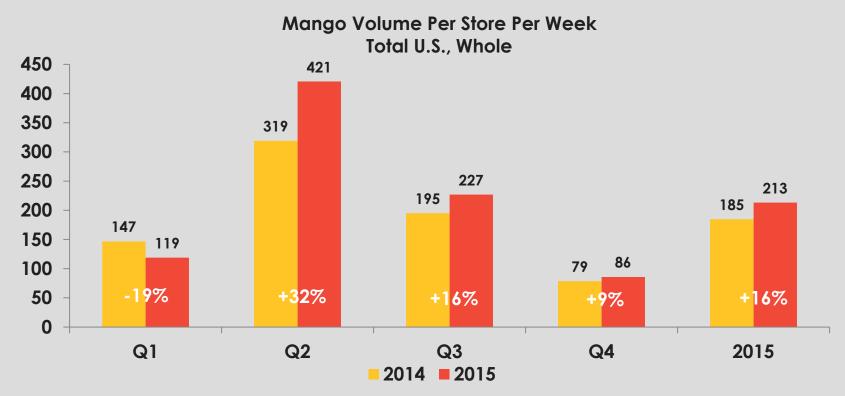


# MANGO AVG VOLUME SALES PER STORE PER WEEK



Volume velocity increased 16% compared to 2014

- Volume velocity peaked during Q2 at 421 units per store per week, an increase of 32% from the prior year
- Q1 was the only time period that had an decrease in volume per store per week compared to the prior year



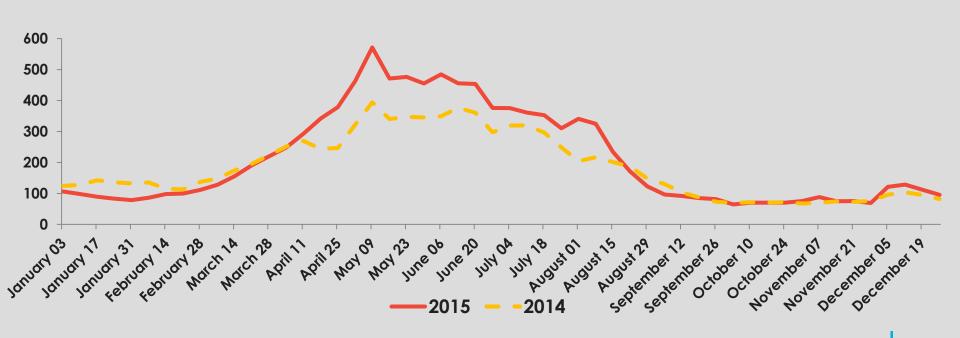
## MANGO WEEKLY AVG VOLUME SALES PER STORE



Volume per store per week increased during April through August compared to the previous year

 The greatest decrease in volume per store per week over the prior year occurred in January

> Mango Volume Per Store Per Week Total U.S., Sub-Region, Total US

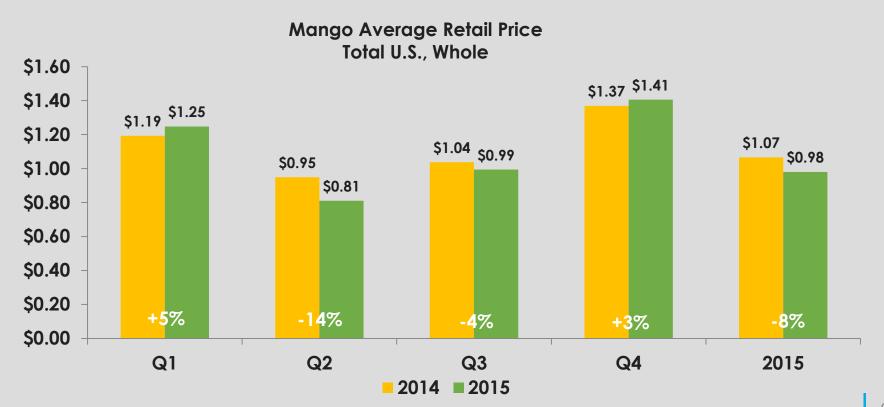


### MANGO AVERAGE RETAIL PRICE



The average retail price (ARP) for whole mangos decreased by \$0.09 to \$0.98 for 2015

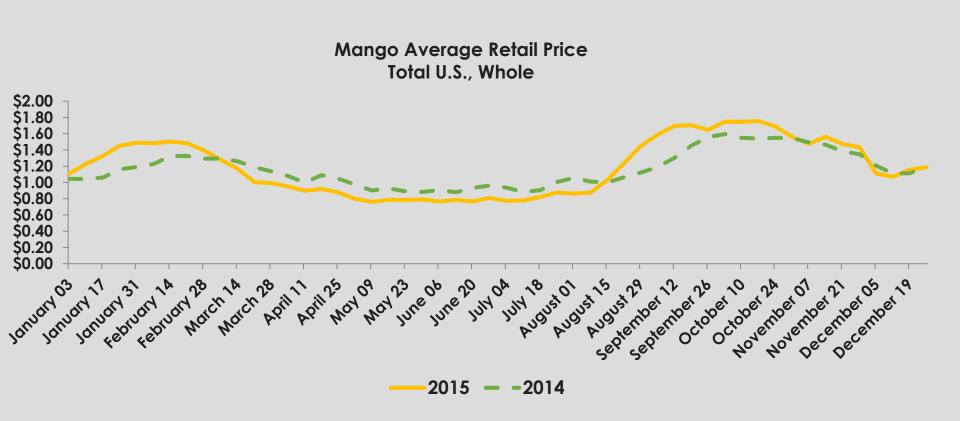
- ARP increased in Q1 and Q4 compared to the prior year
- ARP decreased the most during Q2 by 14% to \$0.81 per mango



# MANGO WEEKLY AVERAGE RETAIL PRICE



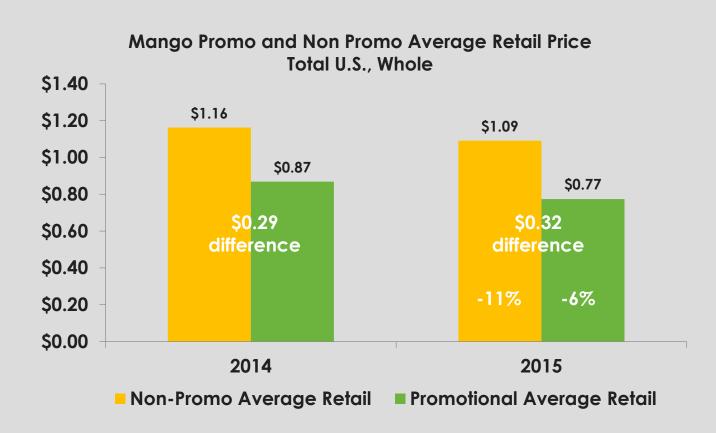
Average retail prices were lower compared to the previous year during March through August



### MANGO NON-PROMO/PROMO AVERAGE RETAIL PRICE



Non-promo average retail price for mangos decreased by 11% and the promotional average decreased by 6%

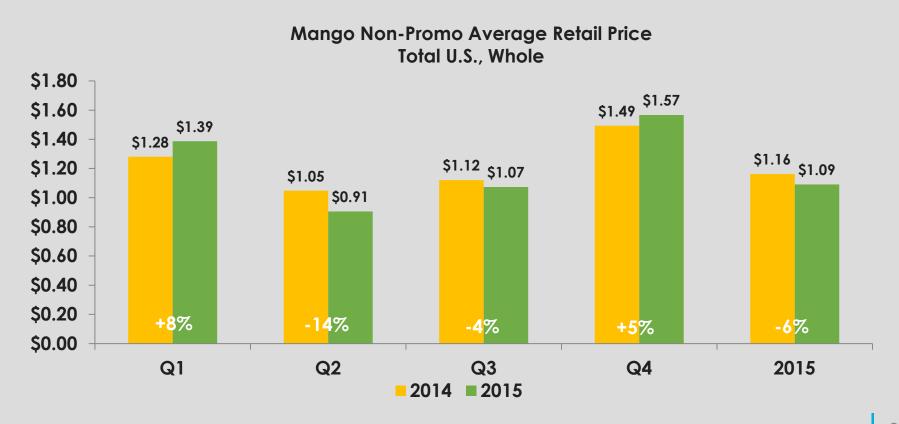


### MANGO NON-PROMOTED AVERAGE RETAIL PRICE



Non-promoted average retail price for mangos declined over prior year in Q2 by 14% and declined in Q3 by 4%

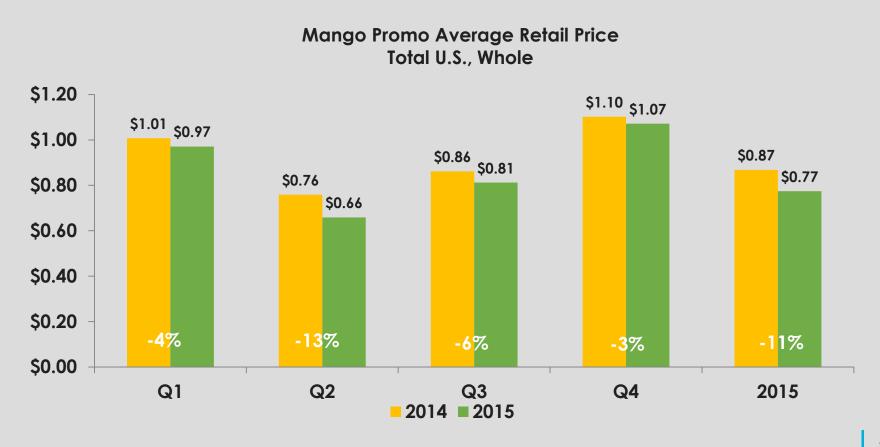
Q4 had the largest average non-promoted retail price, up by 5% to \$1.57



### MANGO PROMOTED AVERAGE RETAIL PRICE



Promotional average retail price decreased during all four quarters; overall decline for 2015 was 11% to \$0.77

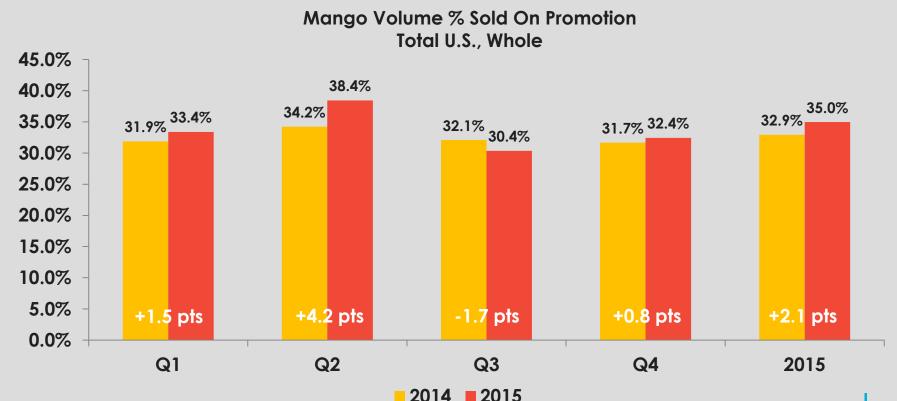


## MANGO % OF VOLUME SOLD ON PROMOTION



35% of whole mangos were sold on promotion during 2015, up from 33% of volume sold on promotion in 2014

Q3 had the smallest portion of volume sold on promotion at 30%, down from 32% volume sold on promotion in Q3 2014



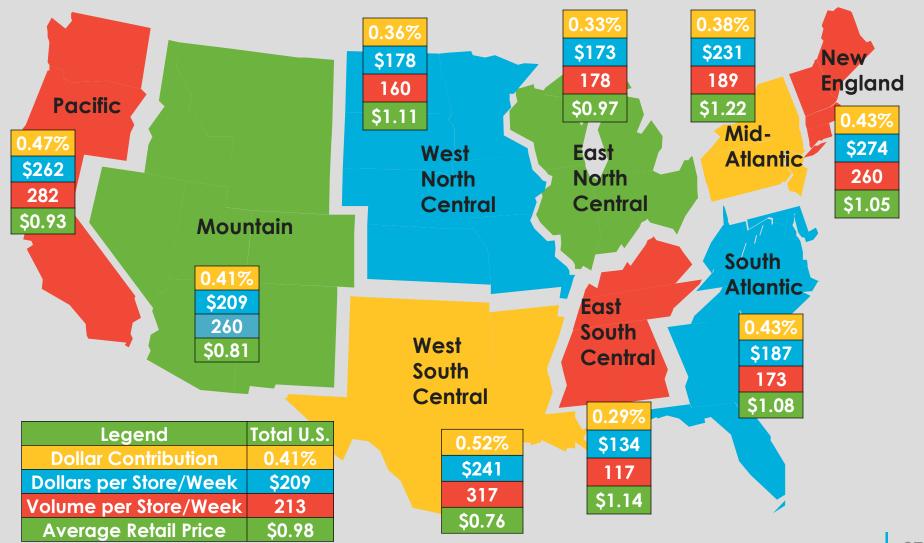


# WHOLE MANGO TRENDS BY SUBREGION

2014-2015

### REGIONAL MANGO PERFORMANCE

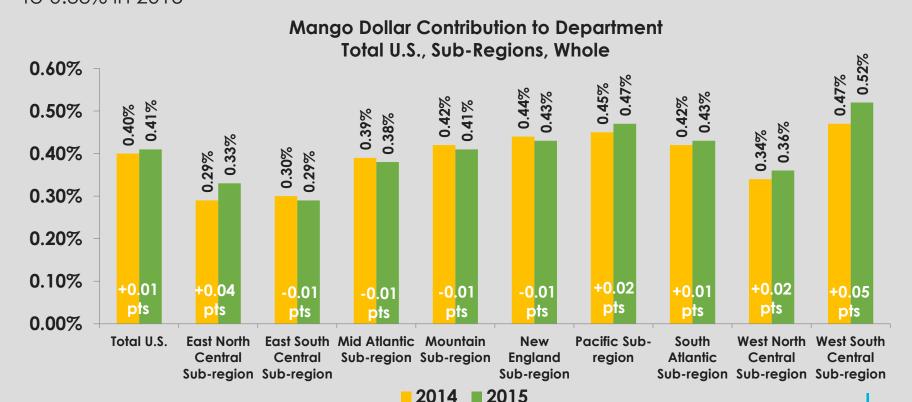




# SUB-REGION MANGO CONTRIBUTION TO PRODUCE

The West South Central had the greatest percentage of dollar contribution to the produce department during 2015, contributing 0.52%, up from 0.47% in 2014

• East North Central had the largest dollar contribution to department growth, up 13.8% to 0.33% in 2015

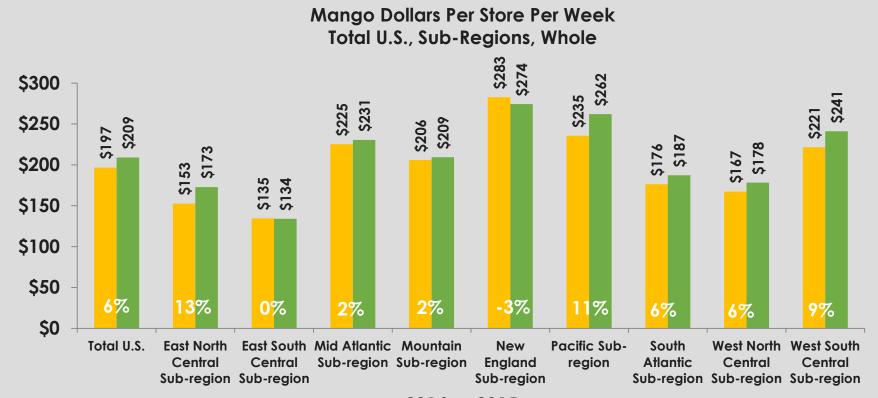


### MANGO SALES PER STORE/ WEEK BY SUB-REGION



Every sub-region had a increase in dollars per store/week in 2015 except East South Central and New England

 The top three sub-regions, based on dollars per store/week in 2015 were New England, Pacific and West South Central

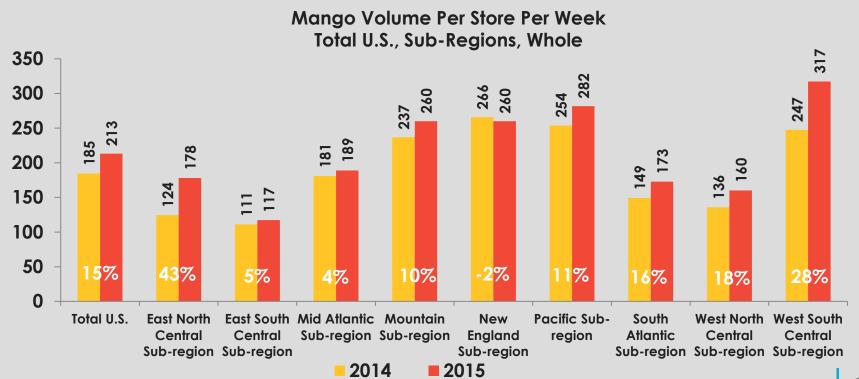


### MANGO VOLUME PER STORE/ WEEK BY SUB-REGION



Trends for volume velocity growth were up compared to the prior year across all sub-regions except New England

- The top sub-regions based on volume per store/week in 2015 were West South Central, Pacific, New England, and Mountain
- The sub-region with the highest growth in volume was East North Central, up by 43%

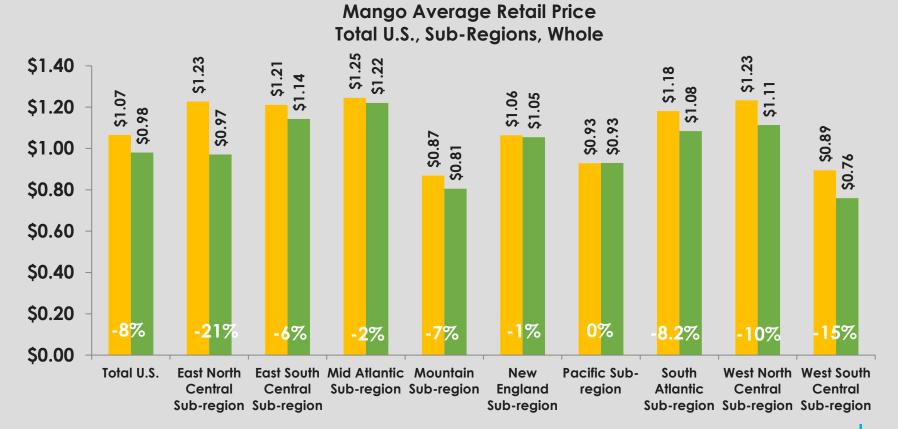


### MANGO AVERAGE RETAIL PRICE BY SUB-REGION



The West South Central sub-region had the lowest average retail price for whole mangos, down 15% over prior year

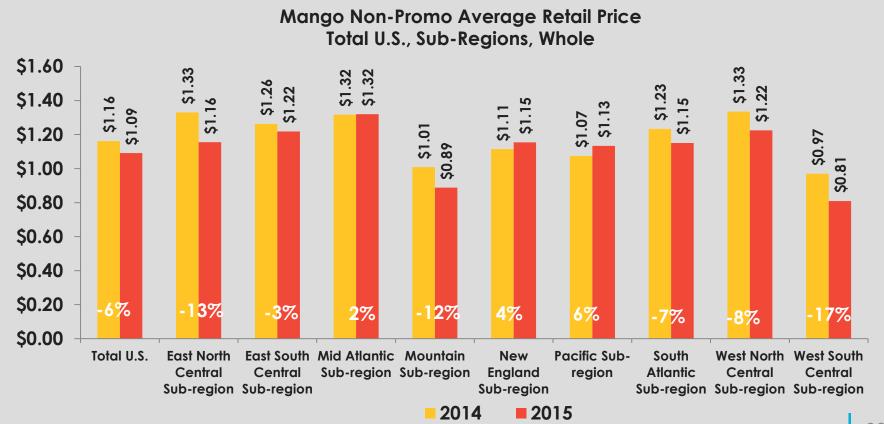
 Only the Pacific sub-region had a very slight increase in average retail price for whole mangos compared to the prior year; all other sub-regions decreased ARP from 2014



## MANGO NON-PROMO AVG RETAIL PRICE BY SUB-REGION

Non-promo average retail price declined across the board except Mid Atlantic, New England and Pacific

 The West South Central had the lowest non-promoted average retail price at \$0.81, down \$0.16 from the prior year



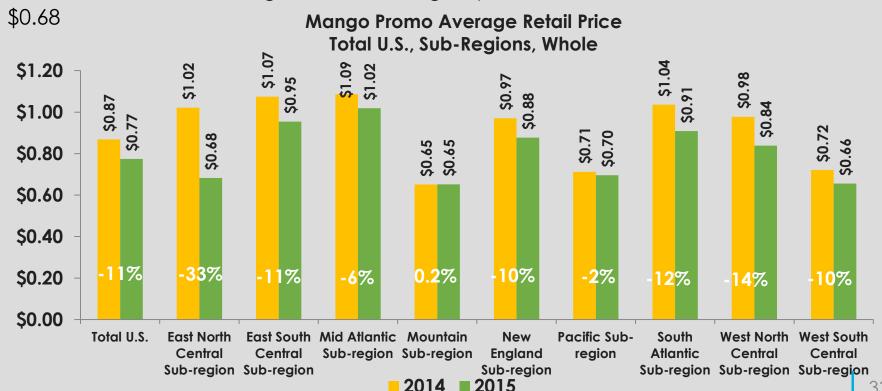
# MANGO PROMO AVG RETAIL PRICE BY SUB-REGION



Promotional average retail price decreased in eight of nine subregions in 2015

 Seven of these eight sub-regions had a decrease in promotional average retail pricing of greater than 5%

East North Central sub-region had the largest promotional decrease, down 33% to



Source: Nielsen Perishables Group FreshFacts®, All Stores, 2015 vs. YAGO

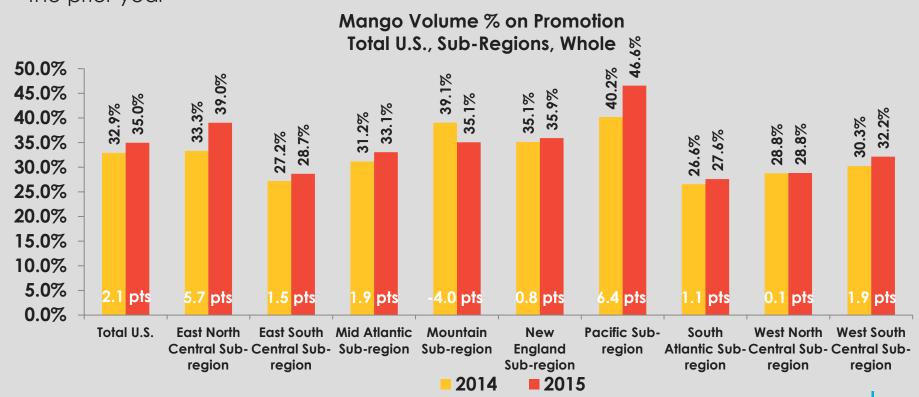
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### MANGO VOLUME SOLD ON PROMOTION BY SUB-REGION



The percent of volume sold on promotion increased for whole mangos across eight of the nine sub-regions

- The Mountain sub-region decreased volume % on promotion
- The Pacific sub-region % on promotion increased the most, up 6.4 points compared to the prior year



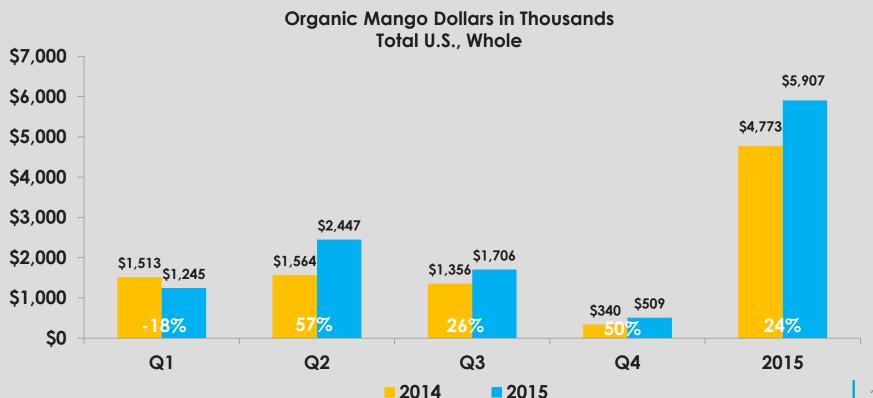




### **ORGANIC MANGO SALES**

Organic mango in Q2 2015 had the largest dollar sales and were up by 57% compared to the prior year

- Dollars peaked during Q2 at \$2.45M
- Only Q1 had a decrease (-18%) in organic mange dollars from the prior year

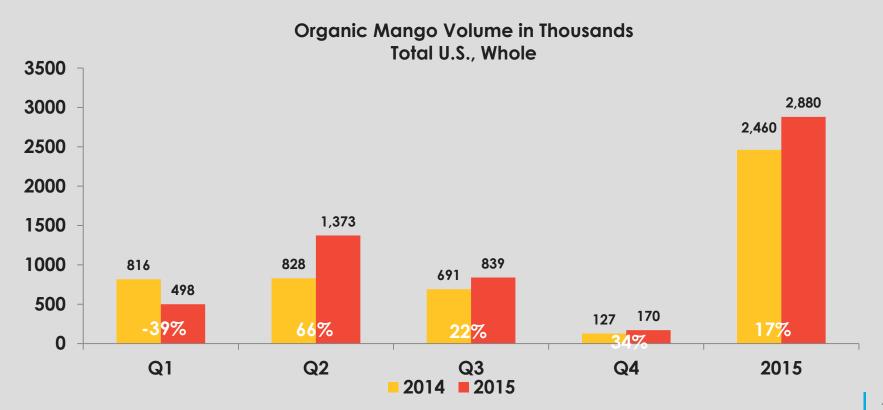




### ORGANIC MANGO VOLUME

Organic mango in Q2 2015 had the largest volume sales and were up by 66% compared to the prior year

- Volume peaked during Q2 at 1.37M units
- Only Q1 had a decrease (-39%) in organic mange volume from the prior year

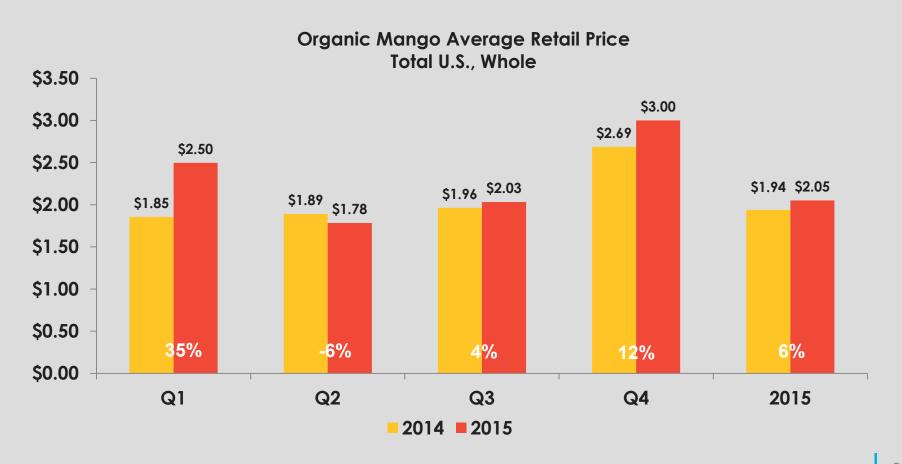


### ORGANIC MANGO AVERAGE RETAIL PRICE



Organic mango ARP in 2015 increased 6% over 2014

Organic mango ARP increased over prior year for each quarter of 2015 except Q2

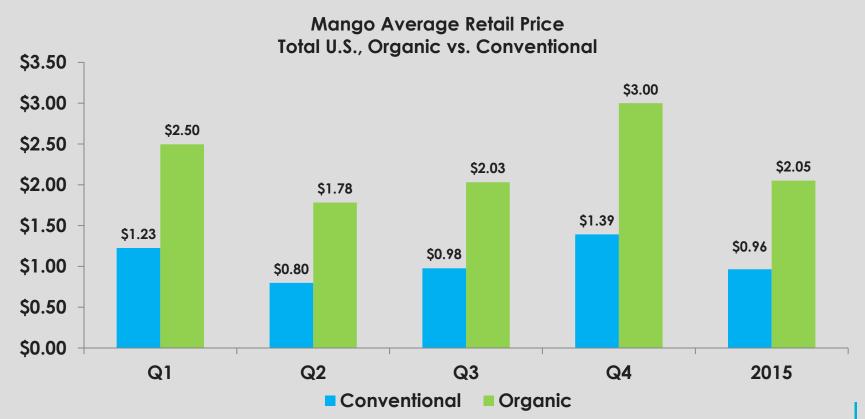


# ORGANIC/CONVENTIONAL AVERAGE RETAIL PRICE



Organic mangos are consistently priced higher than conventional mangos throughout the year

 The largest difference in price happened during Q4 with a \$1.09 difference between organic and conventional

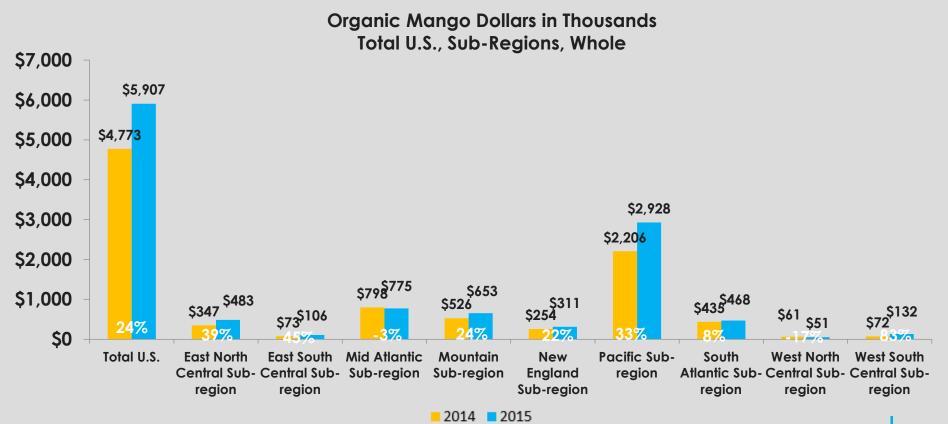


# ORGANIC MANGO DOLLARS BY SUB-REGION



Organic mango increased in total dollar sales from 2014 to 2015 by 24%

The largest dollar sales were in the Pacific sub-region, which increased by 33% compared to the prior year

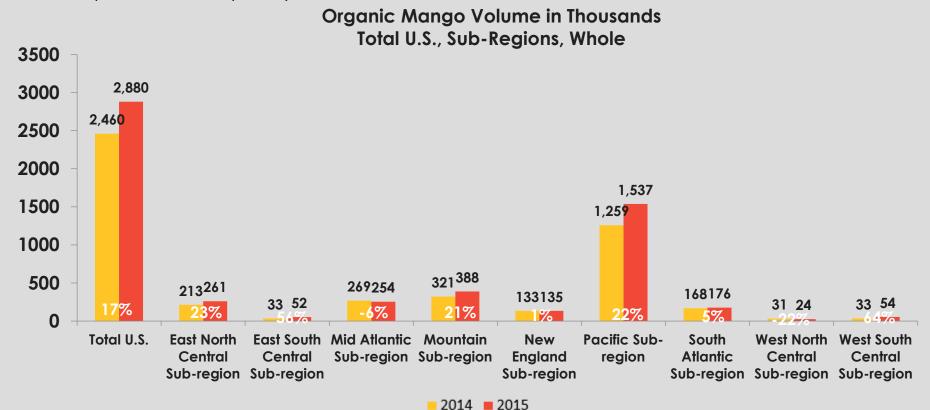


# ORGANIC MANGO VOLUME BY SUB-REGION



Organic mango increased in total volume sales from 2014 to 2015 by 17%

 The largest volume sales were in the Pacific sub-region, which increased by 22% compared to the prior year

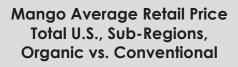


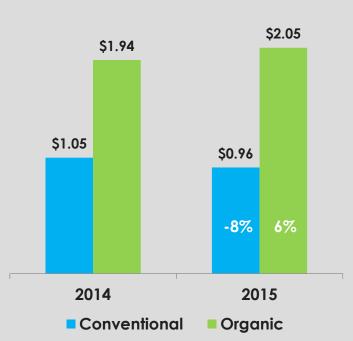
# ORGANIC/CONVENTIONAL ARP BY SUB-REGION



All sub-regions except East South Central drove the national organic mango pricing increase of 6% in 2015

Average retail price decreased for conventional mangos by 8% in 2015





Organic vs. Conventional Mango Average Retail Prices					
Geography		2014	2015		
Total U.S.	Conventional	\$1.05	\$0.96		
	Organic	\$1.94	\$2.05		
East North Central Sub-region	Conventional	\$1.22	\$0.96		
	Organic	\$1.63	\$1.85		
East South Central Sub-region	Conventional	\$1.21	\$1.13		
	Organic	\$2.22	\$2.06		
Mid Atlantic Sub-region	Conventional	\$1.22	\$1.20		
	Organic	\$2.96	\$3.05		
Mountain Sub-region	Conventional	\$0.86	\$0.79		
	Organic	\$1.64	\$1.68		
New England Sub-region	Conventional	\$1.05	\$1.04		
	Organic	\$1.91	\$2.31		
Pacific Sub-region	Conventional	\$0.90	\$0.89		
	Organic	\$1.75	\$1.90		
South Atlantic Sub-region	Conventional	\$1.17	\$1.08		
	Organic	\$2.59	\$2.66		
West North Central Sub-region	Conventional	\$1.23	\$1.11		
	Organic	\$1.99	\$2.14		
West South Central Sub-region	Conventional	\$0.89	\$0.76		
	Organic	\$2.17	\$2.43		

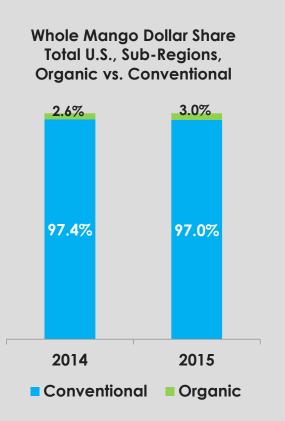
Source: Nielsen Perishables Group FreshFacts®, All Stores, 2015 vs. YAGO

## ORGANIC/CONVENTIONAL SHARE BY SUB-REGION



Nationally, organic mango dollars accounted for 3% of total whole mango sales during 2015, increasing 0.4 percentage points from the

previous year



Organic vs. Conventional Whole Mango Total Dollar Share					
Geography		2014	2015		
Total U.S.	Conventional	97.4%	97.0%		
	Organic	2.6%	3.0%		
East North Central Sub-region	Conventional	98.1%	97.6%		
	Organic	1.9%	2.4%		
East South Central Sub-region	Conventional	98.9%	98.5%		
	Organic	1.1%	1.5%		
Mid Atlantic Sub-region	Conventional	96.7%	96.7%		
	Organic	3.3%	3.3%		
Mountain Sub-region	Conventional	96.8%	96.1%		
	Organic	3.2%	3.9%		
New England Sub-region	Conventional	98.0%	97.5%		
	Organic	2.0%	2.5%		
Pacific Sub-region	Conventional	93.1%	91.7%		
	Organic	6.9%	8.3%		
South Atlantic Sub-region	Conventional	99.1%	99.1%		
	Organic	0.9%	0.9%		
West North Central Sub-region	Conventional	99.2%	99.3%		
	Organic	0.8%	0.7%		
West South Central Sub-region	Conventional	99.6%	99.4%		
	Organic	0.4%	0.6%		



# FRESH-CUT MANGO PERFORMANCE

Total U.S. and Nine Sub-Regions 2014-2015



### **DATA PARAMETERS**

#### Segment details:

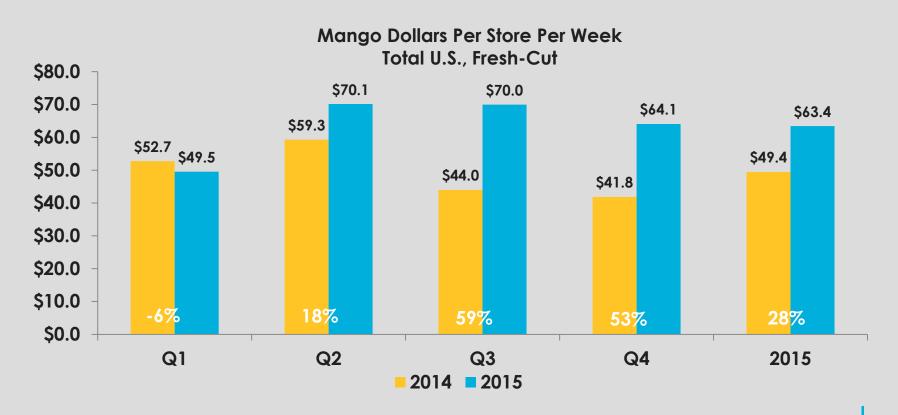
- Mango only fresh-cut includes mango product that is sold in a fresh-cut pack that is only mango, no other items
- Mango only fresh-cut does not include mixed bowls or trays that include mango
- Because of the variation in unit size, this report is focused on dollar sales for mango only fresh-cut, rather than volume

#### Distribution:

- 96.3% of stores in the FCA sold mango only fresh-cut items in 2015
- Distribution of mango only fresh-cut has increased 36 percentage points since
   2011

# MANGO FRESH-CUT AVG. DOLLARS PER STORE PER WEEK

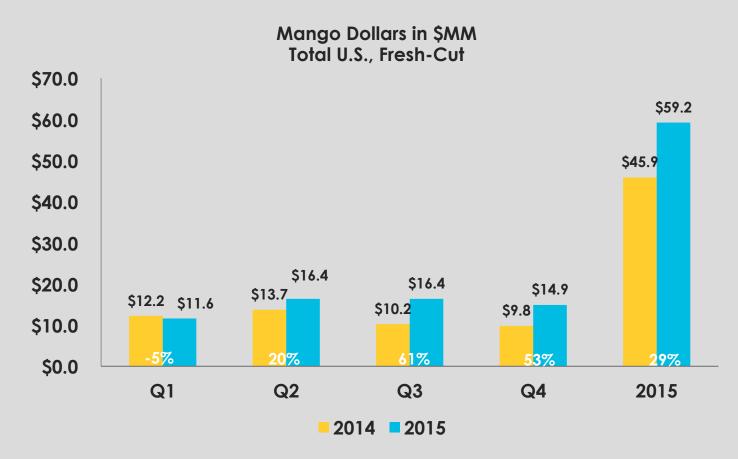
Mango only fresh-cut dollars per store/week increased in three quarters in 2015 compared to the prior year, overall experiencing an increase of 28%



### MANGO ONLY FRESH-CUT DOLLARS



Mango only fresh-cut dollars per million increased in three quarters in 2015 compared to the prior year, overall experiencing an increase of 29%

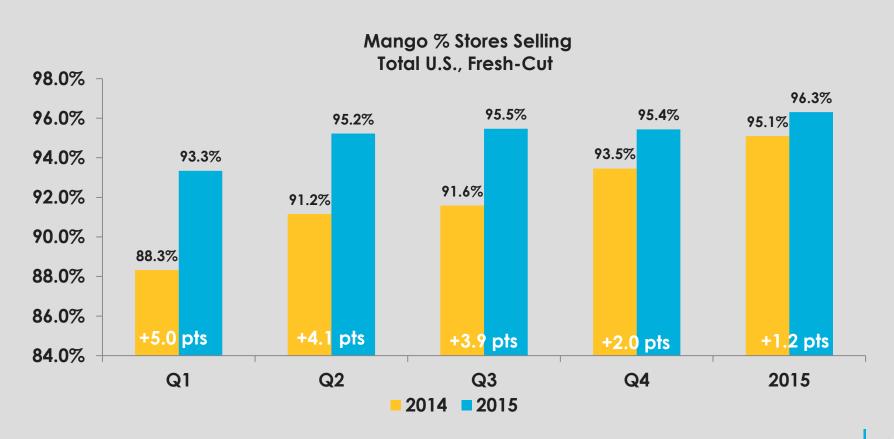


# MANGO FRESH-CUT % OF STORES SELLING



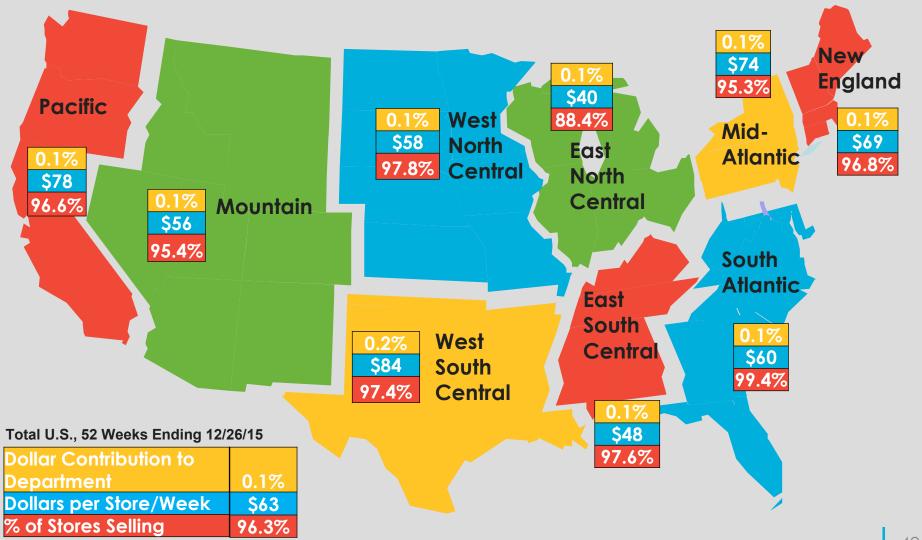
The percentage of stores selling mango only fresh-cut grew 1.2 percentage points from 2014 to 2015

The largest growth was in Q1 (+5.0 pts) and Q2 (+4.1 pts)



# SUB-REGION MANGO ONLY FRESH-CUT PERFORMANCE



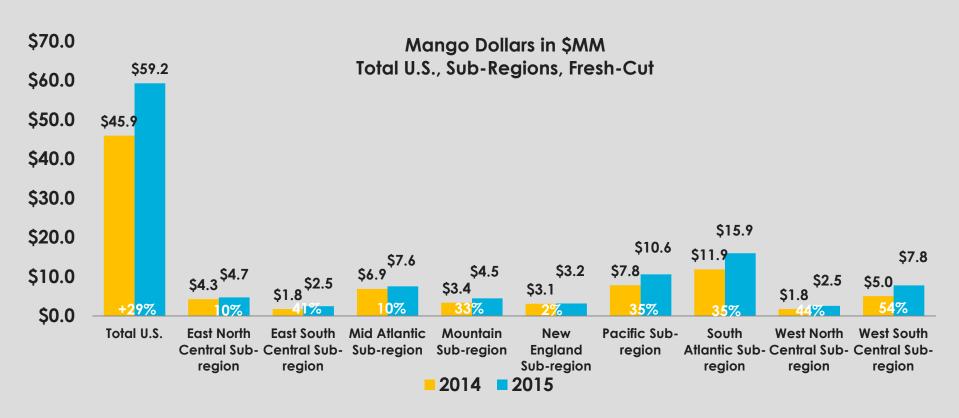


### MANGO ONLY FRESH-CUT DOLLARS BY SUB-REGION



Mango only fresh-cut grew across all sub-regions, increasing total dollar sales from 2014 to 2015 by 29%

The highest dollar sales were in the South Atlantic sub-region at \$15.95MM, up 35%



### MANGO ONLY FRESH-CUT SHARE BY SUB-REGION

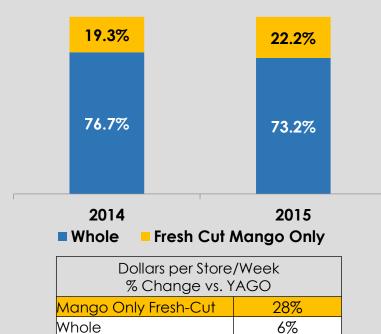


Mango only fresh-cut's share of total mango dollars increased 2.9 points over prior year, up to 22.2% of total mango dollars per store/week

Eight of the nine sub-regions increased fresh-cut mango share (East North Central only

decreased by 0.1 points)

### Mango Only Fresh-Cut Share Dollars per Store/Week Total U.S., 2014-2015



Mango Dollars Per Store Per Week Total U.S., Sub-Regions, Fresh-Cut 2014-2015				
Geography	Mango	2014	2015	
Total U.S.	Mango Only Fresh-Cut	19.3%	22.2%	
	Whole	76.7%	73.2%	
East North Central Sub-region	Mango Only Fresh-Cut	18.2%	18.1%	
	Whole	76.1%	78.8%	
East South Central Sub-region	Mango Only Fresh-Cut	20.3%	26.1%	
	Whole	78.9%	72.4%	
Mid Atlantic Sub-region	Mango Only Fresh-Cut	21.5%	23.2%	
	Whole	74.3%	71.8%	
Mountain Sub-region	Mango Only Fresh-Cut	16.0%	19.5%	
	Whole	77.8%	72.4%	
New England Sub-region	Mango Only Fresh-Cut	19.5%	19.8%	
	Whole	79.8%	78.4%	
Pacific Sub-region	Mango Only Fresh-Cut	18.4%	21.2%	
	Whole	74.9%	70.9%	
	Mango Only Fresh-Cut	20.0%	23.8%	
	Whole	78.2%	74.2%	
West North Central Sub-region	Mango Only Fresh-Cut	18.6%	23.3%	
	Whole	77.4%	71.8%	
West South Central Sub- region	Mango Only Fresh-Cut	19.7%	24.6%	
	Whole	76.1%	70.3%	

Source: Nielsen Perishables Group FreshFacts®, All Stores, 2015 vs. YAGO

# MANGO FRESH-CUT DOLLARS PER STORE PER WEEK BY SUB-REGION

All sub-regions increased mango only fresh cut dollars per store/week over prior year

West South Central sub-region sold the most dollars per store/week at \$84 (up 47% over prior year), followed by the Pacific sub-region at \$78

