



***EMEX, A.C.***

# S.I.T.E. (Traceability System EMEX)

- ▶ In 2002, EMEX started a traceability program in coordination with the USDA and SAGARPA, in order to know the origin of the exported fruit in the fastest and most accurate way.

Para desarrollar este programa se utilizaron 2 Herramientas:

## A.- Origin and destination of fruit

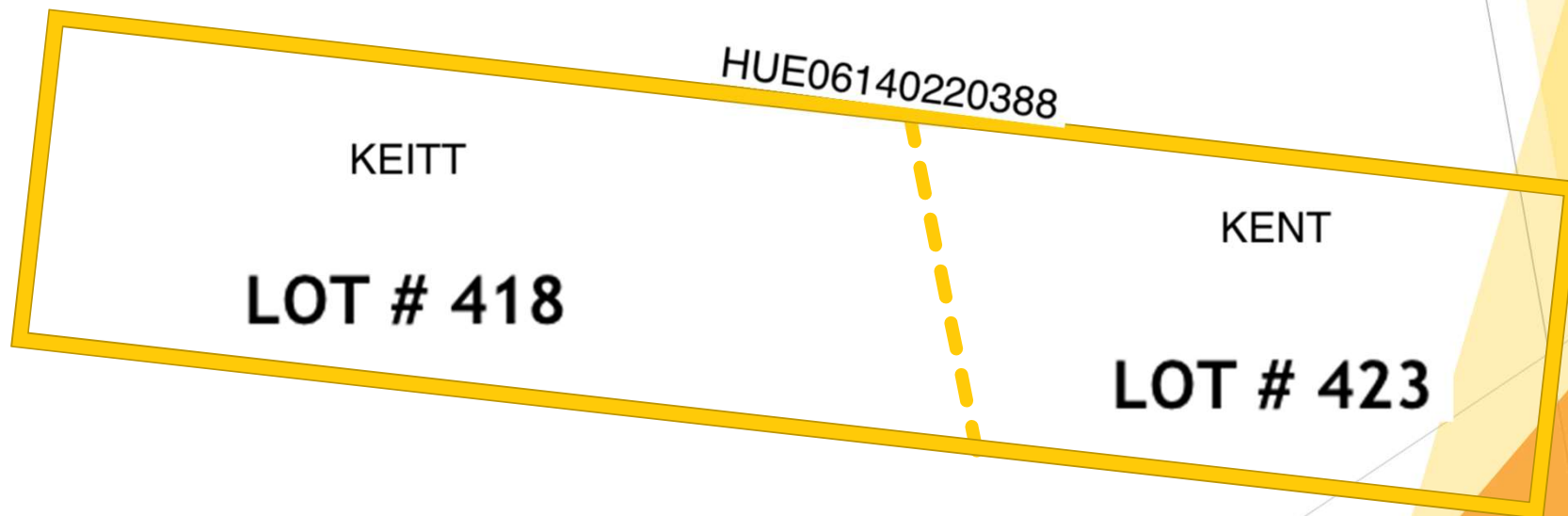


## B.- Traceability Software



# Batch number assignment

- ▶ The batch is an farm and variety identifier number, i.e., if a farm has 2 varieties, it will have a batch number assigned for each variety.



# #Batch in all processes

- ▶ During all packing processes the fruit is perfectly identified with its batch number.

**ALTA DE REZAGA**

Id: 213    Lote: 213    TOMMY

Ir a Proceso    Ir a Motivo

**Cargas Correspondientes al Lote**

Carga	Cajas	Peso de Caja	Fecha de Recepción
1044	170	20	12/04/2018
1063	170	20	12/04/2018
1073	170	20	13/04/2018
1095	170	20	13/04/2018
1116	170	20	14/04/2018
1153	170	20	16/04/2018

**Cargas con Rezaga Asignada**

Carga	Fecha	Proceso	Motivo	Cajas	Tamaño	Peso
1044	12/04/2018	LAVADO	GOLPEADO	2	20	40
1073	13/04/2018	LAVADO	GOLPEADO	1	20	20
1073	13/04/2018	EMPAQUE	GOLPEADO	6	20	120
1153	16/04/2018	LAVADO	GOLPEADO	2	20	40
1813	05/05/2018	LAVADO	GOLPEADO	3	20	60
1073	06/05/2018	EMPAQUE	GOLPEADO	5	20	100

**ALTA DE PALLET**

Pallet: 7798

Logo: 3

Tratamiento: HWT    Calidad: PRIMERA

Fecha de Armado: 17/05/2018    Responsable: ERIKA LOPEZ

Observaciones:

Destino: EXPORTACIÓN

Mixto:

**DETALLE DE PALLET**

Lote	Variedad	Madurez	Calibre	Tamaño	Marca de Caja	Tipo de Empaque	Cajas
174	TOMMY	1	12	4	MARATHON	CARTON	43
285	TOMMY	1	12	4	MARATHON	CARTON	158
339	TOMMY	1	12	4	MARATHON	CARTON	9

Total de Peso: 840    Total de Cajas: 210

**ALTA DE HIDROTERMICO**

Id: 1603    Fecha: 15/05/2018

Calidad: PRIMERA

Inspector: PEREZ RAMON F.

Duración: 120

Observaciones:

**ENTRADA**

Hora: 12    Minuto: 41    Hora: 12:41:00 p. m.

**SALIDA**

Hora: 14    Minuto: 41    Hora: 2:41:00 p. m.

**DETALLE DE HIDROTERMICO**

Lote	Variedad	Cajas	Tamaño	Peso
317	TOMMY	30	20	600
207	TOMMY	45	20	900
256	TOMMY	85	20	1,700
283	TOMMY	45	20	900
008	HADEN	5	20	100
324	TOMMY	30	20	600

**Embarque: 198**

Embarque: 198

AGUMAN EXPORT SPR DE RL DE CV

**DATOS TRANSPORTE Y CHOFER**

Transporte y Chofer: 20

Razon Social: FRANCISCO HERMANDEZ

Tipo: TERRESTRE

Chofer: FRANCISCO HERNÁNDEZ

Licencia: HEMF591109

**DATOS TRACTOR**

Marca: KW    Modelo: 1985

Placas:    No. Economico:

Posición    Pallet

1	4680
2	4681
3	4682
4	4683
5	4684
6	4685
7	4686
8	4687
9	4688
10	4689
11	4690
12	4691
13	4692
14	4693
15	4694
16	4695
17	4696
18	4697
19	4698

Empaque: 1    316

**FECHAS**

Carga: 22/04/2018    Elaboración: 22/04/2018

Tratamiento: 04/20/18    Validez: 28/04/2018

**DATOS TRATAMIENTO**

Duración: 75, 90    Producto: MANGO    Larva:

**CERTIFICADO**

Folio:    Fecha: 21/04/2018

Observaciones:

Inspector: DIAZ HECTOR    Frontera: PHARR, TX.

# Shipping Documentation

- Each of the shipments made in the system is accompanied by a set of documents that show in detail the arrangement of each pallet and the composition of each one of them.

Position: 14 TREATMENT: HWT Pallet #: 5735				
Lot	Orchard	Variety	Boxes	Count
136	HUE06160330994	TOMMY	210	12
<b>Total Cajas de Pallet:</b>			<b>210</b>	

Position: 15 TREATMENT: HWT Pallet #: 5738				
Lot	Orchard	Variety	Boxes	Count
136	HUE06160330994	TOMMY	210	10
<b>Total Cajas de Pallet:</b>			<b>210</b>	

Position: 16 TREATMENT: HWT Pallet #: 5738				
Lot	Orchard	Variety	Boxes	Count
286	HUE06160550618	TOMMY	210	1
<b>Total Cajas de Pallet:</b>			<b>210</b>	

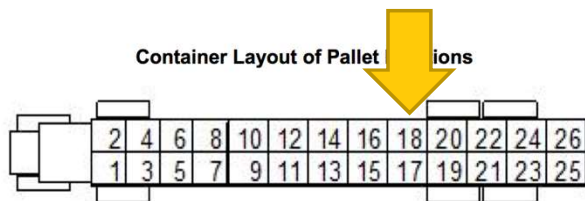
Position: 17 TREATMENT: HWT Pallet #: 5741				
Lot	Orchard	Variety	Boxes	Count
136	HUE06160330994	TOMMY	210	12
<b>Total Cajas de Pallet:</b>			<b>210</b>	

Position: 18 TREATMENT: HWT Pallet #: 5743				
Lot	Orchard	Variety	Boxes	Count
195	HUE06160330521	TOMMY	104	10
286	HUE06160550618	TOMMY	106	10
<b>Total Cajas de Pallet:</b>			<b>210</b>	

Boxes per Lot					
Lot	Boxes	Orchard	GGN	STATUS	
136	1,555	HUE06160330994		Negativo	
181	333	HUE06160550291		Negativo	
188	9	HUE06160330780		Negativo	
190	301	HUE06160330145		Negativo	
195	565	HUE06160330521		Negativo	
203	128	HUE06160330139		Negativo	
241	502	HUE06160330689		Negativo	
278	82	HUE06160331292	4056186669995	Positivo	
286	540	HUE06160550618		Negativo	
290	364	HUE06160550749		Negativo	
293	163	HUE06160640223		Negativo	
295	498	HUE06160331290	4056186669995	Positivo	
Total:	5,040				



# PTI INITIATIVE

For a more detailed traceability control, the use of labels per case was implemented.

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## FABRICA DE ETIQUETAS PTI

Menú GS1

GTIN 07503020350061 ⋮

Producto	Variedad	Calibre	Presentación	Descripción
MANGO	ATAULFO	12	4	FRESKA ORG.

Lote

Fecha

Leyenda de Fecha

Calidad

GS1 128

Cantidad

### Vista Preliminar

  
(01) 07503020350061 (13) 180910 (10) 002

**LOT**  
**002**

MANGO/ATAULFO

**12 / 4, ORGANICO**  
**Product of México**  
PACKED BY: EXOTIKAMPO  
EL ROSARIO SINALOA

**PLU 9311**  
  
5 03020 35006 1

Pack Date  
**Sep10**  
**26**

# PTI LABEL ELEMENTS

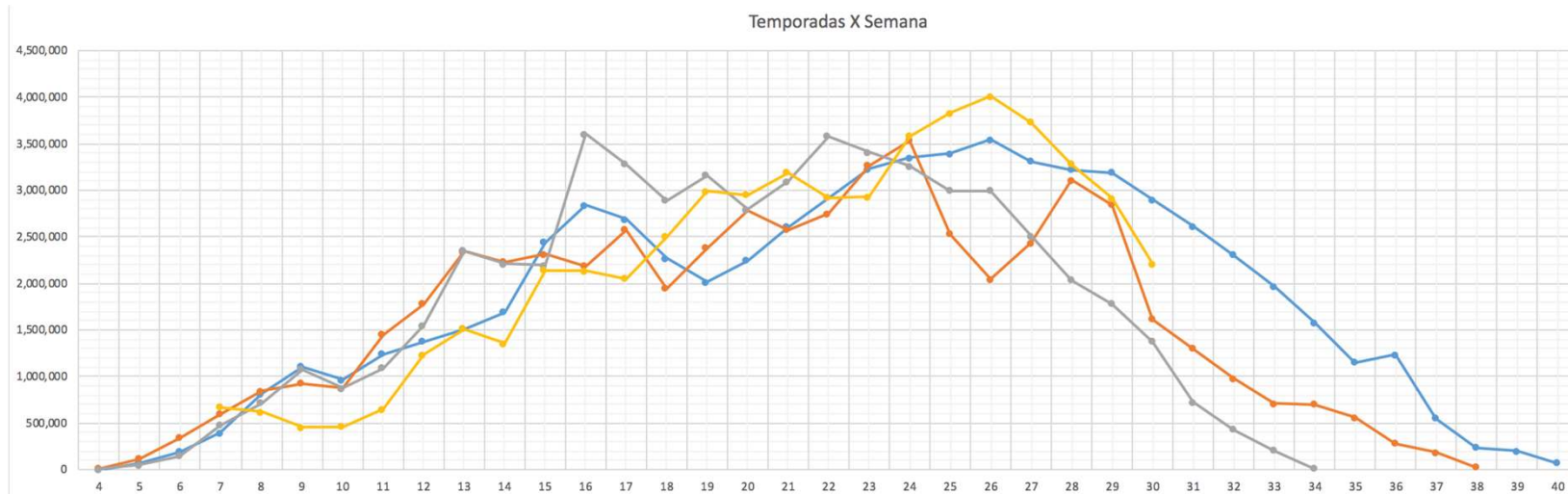




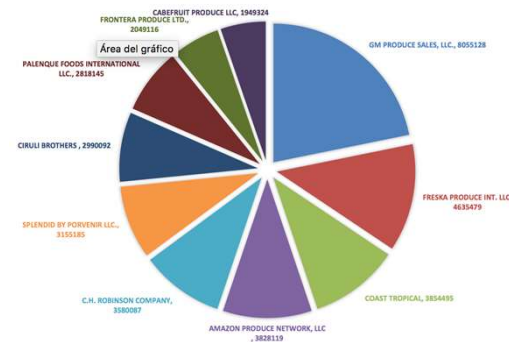


# Leveraging Information

- ▶ The information collected from the system allows us to generate an annual and weekly crop forecast report, providing associates with real information about what is happening in their environment.

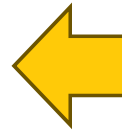
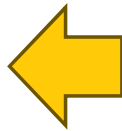


Estado	Estados Productores de Mango				2017 vs 2014	2016 vs 2015	2017 vs 2016
	2014	2015	2016	2017			
MICHOACÁN	12,927,231	14,535,183	14,584,825	14,602,228	12.44%	0.34%	0.12%
SINALOA	8,860,431	15,665,407	15,911,790	14,190,833	76.80%	1.57%	-10.82%
NAYARIT	9,739,665	7,000,031	11,935,069	12,950,955	-28.13%	70.50%	8.51%
OAXACA	8,018,454	9,080,693	8,321,559	7,533,734	13.25%	-8.36%	-9.47%
CHIAPAS	6,073,415	5,802,765	6,032,151	6,113,467	-4.46%	3.95%	1.35%
JALISCO	2,336,446	2,786,486	3,215,696	4,697,137	19.26%	15.40%	46.07%
GUERRERO	1,558,568	1,665,737	1,975,099	2,794,807	6.88%	18.57%	41.50%
COLIMA	333,565	351,212	605,473	663,679	5.29%	72.40%	9.61%
<b>Total</b>	<b>49,847,775</b>	<b>56,887,514</b>	<b>62,581,662</b>	<b>63,546,840</b>	<b>14.12%</b>	<b>10.01%</b>	<b>1.54%</b>



# Advances in Technology

- ▶ We adopted for our traceability system a hybrid mechanism that works locally (without internet) and when the equipment has internet, it synchronizes to our server.



# THANK YOU!

Contact EMEX in social networks:



EMEX, A. C.



@EMEXAC

**You** **Tube** EMEX, A. C.

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  - ▶ (52) 33 32 80 23 10
  - ▶ (52) 33 32 80 23 60