

Process Owner : Bernard Henning

Approver: Vijan Chetty

INDEX:		PAGE
NOTES:		
	1. CARRYING TEMPERATURES	2
	2. COLD BLASTS	2
	3. CONTROLLED ATMOSPHERE	2
	4. MODIFIED ATMOSPHERE	3
	5. AFAM+ / e-AUTOFRESH	3
	6. PLUM EXPORTS	3
	7. APRICOT/NECTARINE/PEACHES	3
	8. AUTOMATIC SETTING CHANGE (A): Added to current dual regime codes	3
	9. DUAL TEMPERATURE REGIMES (D): Shipping arrangements	3
	10. WARMING UP CLAUSE: cold treatment shipments	4
1.1	CITRUS	4
1.2	DECIDUOUS FRUIT	7
	• Ad hoc exceptions – excluding plums	7
	• Apples	9
	• Apricots	9
	• Cherries	9
	• Grapes	10
	• Nectarines	10
	• Peaches	10
	• Pears	10
	• Plums	11
	• Persimmons	14
1.3	SUBTROPICAL FRUIT	14
	• Avocados	15
	• Bananas	17
	• Guavas	17
	• Kiwi Fruit	17
	• Litchis	19
	• Mangoes	19
	• Nuts	20
	• Papaya	20
	• Passion Fruit	20
	• Pineapples	21
	• Prickly pears	21
	• Pomegranate	22
1.4	VEGETABLES	22
1.5	PLANT MATERIAL AND CUTTINGS	23
1.6	OTHER PRODUCTS	24

Process Owner : Bernard Henning

Approver: Vijan Chetty

• Blueberries	24
• Frozen products	24
• Chilled products unspecified	25
• Meat products	25
• Dairy products	26
• Cheese	26
• Eggs	26
• Dried fruit	27
• Confectionary / Chocolates	27
• Candles	27
• Cool Stow conditions	27
• Wine	27
2.0 FOREIGN PRODUCTS	27
3.0 OTHER EQUIPMENT	28
4.0 CANCELLED CODES	28

NOTES:**1. CARRYING TEMPERATURES:**

The carrying temperature specified in this document refers to the temperature of the air delivered to the product i.e. the delivery air temperature (DAT). In practice this is also the setpoint of the thermostat controller. This set point may however be fine tuned to obtain the specified DAT within the permissible $\pm 0.5^{\circ}\text{C}$ fluctuation.

A maximum fluctuation of $\pm 0.5^{\circ}\text{C}$ in the DAT is permissible. This means that, for a carrying temperature of minus 0.5°C , the DAT may not be colder than minus 1.0°C or warmer than 0.0°C .

2. COLD BLASTS:

When there is a difference of more than 1°C between DAT and RAT, the DAT may be reduced by 0.5°C for 3 hours out of every 6 hours in order to achieve the prescribed carrying temperature. **Special procedures will be issued in writing for certain products such as avocados, mangoes and some stone fruit varieties such as peaches and plums requiring specific DAT/RAT control procedures.**

If a temperature difference of more than 1°C between DAT and RAT persists (chilled cargo) and no reduction in RAT is noted after the DAT was reduced by 0.5°C , the status of the cooling and air systems must be checked. **The PPECB must be informed immediately should the problem persist for 24 hours.**

3. CONTROLLED ATMOSPHERE (CA):

CA Containers or other containers fitted with CA systems must never be ventilated with fresh air while in transit. The fresh air ventilation valves must be in the **"CLOSED"** position.

 PPECB	Carrying temperature regimes of perishable produce for sea export official PPECB instructions	HP22 / PP04.04-17	
		Rev : 11	Page 3 of 31
		Date: 10 April 2017	
Process Owner : Bernard Henning		Approver: Vijan Chetty	

WARNING: NEVER ENTER OR DO ANY REPAIRS ON A CA CONTAINER UNLESS NORMAL ATMOSPHERE IS REINSTALLED.

4. MODIFIED ATMOSPHERE (MA):

Containers fitted with the “MAX tend” atmosphere control system requires that the fresh air vent cover is in the **open** position at all times to prevent the installed maxtend system from being obstructed.

Special instructions will be issued in writing as part of the official PPECB Carrying Temperature Instructions (CTI) to the Master of a Vessel. Vessels must report on these as part of their daily en-route management.

Warning: Never open any evaporator panel or remove the maxtend equipment from the container, as this will create air leakage from the container, preventing atmosphere control.

5. AFAM+/e-AUTOFRESH/SMARTFRESH:

Please note that all containers that are carried under AFAM+, e-Auto fresh and or SMARTFRESH conditions at sea can only be ventilated as per automatic setting of units and by special arrangements by export and shipping line.

6. PLUM EXPORTS:

Please note that a new code **(PK)** range has been developed, in order to identify new stacking and loading methods. The temperature regimes are the same as for other **(PD)** ranges.

Please note that **PE, PC, PB** and **PU** ranges also identify new stacking and loading methods as for PK arrangements.

7. APRICOT/NECTARINE/PEACHES:

Please note that a new code with a **(K)** has been developed, in order to identify new stacking and loading methods, horizontal airflow kit (HAF). The method is used by exporter under experimental conditions only. The temperature regime is the same as for D05 range.

8. AUTOMATIC SETTING CHANGE (A): Added to current dual regime codes:

Arrangements made by Shipping Line for automatic container re-settings for products carried under dual conditions, while en-route. Same recipe applies, but with automatic set point changes.

9. DUAL TEMPERATURE REGIMES (D): Shipping arrangements:

(i.e. temperature regimes which call for temperature changes after departure from a specific port).

In cases where delays necessitate changes to the initial accepted shipping regime, these must be communicated to the Cargo Owner and or Agent by the Shipping Line or Agency. Any changes need to be communicated to PPECB, in order to have instructions amended prior to the vessel’s departure.

 PPECB	Carrying temperature regimes of perishable produce for sea export official PPECB instructions	HP22 / PP04.04-17	
		Rev : 11	Page 4 of 31
		Date: 10 April 2017	
Process Owner : Bernard Henning		Approver: Vijan Chetty	

10. WARMING UP CLAUSE: Cold treatment shipments

After completion of cold treatment the temperature set point of the container can be raised.

The following procedure may only be applied once the Master of the Vessel has received specific instructions from the respective Shipping Line/s stating container number/s, final vent setting/s and set point of unit/s to be warmed up.

Countries that allow warm up:

The temperature set points must be raised to +1.5°C on completion of the cold treatment, thereafter proceed as follows:

- The temperature set points must be stepped up by 1.5°C increments, but only after the pulp temperatures have stabilized to within 0.5°C of the new set temperature.

1.1 CITRUS:

Shipping note for EU shipments only – refer to HP01/PP04.04-01 procedure including:

- All Oranges/Soft Citrus to be shipped at between C25 and C45 only;
- All Lemons and Grape Fruit to be shipped up to C07 only.
- Balance to Non-EU destinations (*)

C25 plus 2.5°C
Carry at plus 2.5°C for the full duration of the voyage.

C35 plus 3.5°C
Carry at plus 3.5°C for the full duration of the voyage.

C04 plus 4.0°C
Carry at plus 4.0°C for the full duration of the voyage.

C45 plus 4.5°C
Carry at plus 4.5°C for the full duration of the voyage.

C05 plus 5.0°C
Carry at plus 5.0°C for the full duration of the voyage.

C55 plus 5.5°C
Carry at plus 5.5°C for the full duration of the voyage.

C06 plus 6.0°C
Carry at plus 6.0°C for the full duration of the voyage.

Process Owner : Bernard Henning

Approver: Vijan Chetty

C65 plus 6.5°C

Carry at plus 6.5°C for the full duration of the voyage.

C07 plus 7.0°C

Carry at plus 7.0°C for the full duration of the voyage.

C75 plus 7.5°C – (*)

Carry at plus 7.5°C for the full duration of the voyage.

C08 plus 8.0°C – (*)

Carry at plus 8.0°C for the full duration of the voyage.

C09 plus 9.0°C – (*)

Carry at plus 9.0°C for the full duration of the voyage.

C10 plus 10.0°C – (*)

Carry at plus 10.0°C for the full duration of the voyage.

C11 plus 11.0°C - (*)

Carry at plus 11.0°C for the full duration of the voyage.

C12 plus 12.0°C – (*)

Carry at plus 12.0°C for the full duration of the voyage.

C13 plus 13.0°C – (*)

Carry at plus 13.0°C for the full duration of the voyage.

C16 plus 16°C – (*)

Carry at plus 16°C for the full duration of the voyage.

CE02 plus 2.0°C (Only to - EU destinations)

Carry at plus 2.0°C, for a minimum 16 days, and maintain until discharge. Tolerance from container set point, 3.0°C. Maximum pulp temperature at time of loading 5.0°C

CE03 plus 3.0°C (Only to - EU destinations) – *Satsumas, mandarins and grapefruit (Mars) only*

Carry at plus 3.0°C, for a minimum 16 days, and maintain until discharge. Tolerance from container set point, 2.0°C. Maximum pulp temperature at time of loading 5.0°C

CU02 plus 2.0°C (CU02 replace CE02 in the case where pulp temperatures exceed 5.0°C)

Carry at plus 2.0°C, for a minimum 21 days, and maintain until discharge. Pulp temperature at time of loading between 5.0°C and 22.0°C.

 PPECB	Carrying temperature regimes of perishable produce for sea export official PPECB instructions	HP22 / PP04.04-17	
		Rev : 11	Page 6 of 31
		Date: 10 April 2017	
Process Owner : Bernard Henning		Approver: Vijan Chetty	

CD1 plus 10°C/5d 3.5°C– (Only to Non –EU destinations)

Carry at plus 10°C; 5 days after departure, lower the temperature to plus 3.5°C and maintain until discharge.

CAD1 plus 10°C/5d 3.5°C – (Only to Non –EU destinations)

Carry at plus 10°C; 5 days after departure, lower the temperature to plus 3.5°C and maintain until discharge.

CD2 plus 10°C/10d 3.5°C – (Only to Non –EU destinations)

Carry at plus 10°C; 10 days after departure, lower the temperature to plus 3.5°C and maintain until discharge

CAD2 plus 10°C/10d 3.5°C – (Only to Non –EU destinations)

Carry at plus 10°C; 10 days after departure, lower the temperature to plus 3.5°C and maintain until discharge

CDX Optional Code (Via T13/PP04.02-02F01 dispensation route)

Please be advised that PPECB will allocate the booking codes, CDX, CDX1, 2, 3 etc. at the time of dispensation sign off, the client will then have to use this allocated code when a booking is made with PPECB and the Shipping Line. The CDX, CDX 1/2/3 etc. code will be used for all **CITRUS and CITRUS TRIAL** dispensations.

W Warm - Citrus

(Allow only up to W07 for EU destinations. The fruit shall be **shipped at a maximum air delivery temperature set point of 7°C** for lemons, grapefruit and pomelos, and 4.5°C for all other citrus fruit types.)

- Whenever cargo is carried un-cooled, a **W** will appear in front of the carrying regime, i.e. **W35, W07, W10, W12 or W13**.
- **Navel varieties** loading at ambient conditions, **dispensation is required**. A quality report per dispensation must be presented to PPECB after discharged.
- **Soft citrus** will not be allowed to be carried under W booking. No dispensation application for all varieties soft citrus.

REUNION SHIPMENTS ONLY – (NO TOLERANCE ALLOWED)

RCM5 minus 0.5°C

Carry at minus 0.5°C for the full duration of the voyage.

RCP5 plus 0.5°C

Carry at plus 0.5°C for the full duration of the voyage.

RCP1 plus 1°C

Carry at plus 1°C for the full duration of the voyage.

Process Owner : Bernard Henning

Approver: Vijan Chetty

Fresh air ventilation – all citrus

- Integral containers – 15m³ per hour

1.1.1 Citrus Fruit**Ad-hoc Exceptions****C00 0.0°C**

Carry at 0.0°C for the full duration of the voyage.

C01 plus 1.0°C

Carry at plus 1.0°C for the full duration of the voyage.

C02 plus 2.0°C

Carry at plus 2.0°C for the full duration of the voyage.

1.1.2 Foreign Conditions**Refer to page 27****1.1.3 Cold Treatment Shipments**

Separate instructions will be given for special shipments. The following codes are only to assist ship planners and PPECB in identifying these types of shipments. (Refer to Yellow Cold Treatment Card – PPECB website www.ppecb.com)

SC: Steri Citrus:**SCO 0.0°C**

Carry at 0.0°C for the full duration of the voyage

SC1 minus 1.5°C

Carry at minus 1.5°C for the full duration of the voyage

SC2 minus 0.5°C

Carry at minus 0.5°C for the full duration of the voyage

SC3 plus 1.0°C

Carry at Plus 1.0°C for the full duration of the voyage

SC4 minus 1.0°C

Carry at minus 1.0°C for the full duration of the voyage

SC5 plus 0.5°C

Carry at plus 0.5°C for the full duration of the voyage

Process Owner : Bernard Henning

Approver: Vijan Chetty

- SL2 plus 2.0°C/2d plus 3.0°C, (land base cold treatment has been completed),**
Carry at plus 2.0°C; 2 days after departure raise the temperature to plus 3.0°C and maintain until discharge.
- SL3 plus 2.0°C/2d plus 4.0°C, (land base cold treatment has been completed),**
Carry at plus 2.0°C; 2 days after departure raise the temperature to plus 4.0°C and maintain until discharge.
- SL4 plus 2.0°C/2d plus 5.0°C, (land base cold treatment has been completed),**
Carry at plus 2.0°C; 2 days after departure raise the temperature to plus 5.0°C and maintain until discharge.
- SL5 plus 2.0°C/2d plus 7.0°C, (land base cold treatment has been completed),**
Carry at plus 2.0°C; 2 days after departure raise the temperature to plus 7.0°C and maintain until discharge.

Fresh air ventilation – all citrus

- Integral containers – 15m³ per hour
- Conventional decks – Continuous

1.2 DECIDUOUS FRUIT AND GRAPES:**1.2.1 AD HOC EXCEPTIONS – Due to changing climate conditions – excluding plums**

- D00 0.0°C (in the case of grapes: -1.5°C to 2.5°C pulp)**
Carry at 0.0°C for the full duration of the voyage.
- DD5 plus 0.5°C (in the case of grapes: -1.5°C to 2.5°C pulp)**
Carry at plus 0.5°C for the full duration of the voyage.
- DD1 plus 1.0°C (in the case of grapes: -1.5°C to 2.5°C pulp)**
Carry at plus 1.0°C for the full duration of the voyage.
- DX1 minus 1.0°C – (Apple /Pear Mix)**
Carry at minus 1.0°C for the full duration of the voyage.

NOTE: Refer to page 3 – item 7 re K arrangements**DGT: Optional Code (Via PP04.02-02F01 dispensation route)**

Please be advised that PPECB will allocate the booking codes, DGT, DGT1, 2, 3 etc. at the time of dispensation sign off, the client will then have to use this allocated code when a booking is made with PPECB and the Shipping Line. The DGT, DGT 1/2/3 etc. code will be used for all **DECIDUOUS** and **GRAPES** dispensations.

 PPECB	Carrying temperature regimes of perishable produce for sea export official PPECB instructions	HP22 / PP04.04-17	
		Rev : 11	Page 9 of 31
		Date: 10 April 2017	
Process Owner : Bernard Henning		Approver: Vijan Chetty	

Fresh air ventilation

- Integral containers – Closed
- Conventional decks – Maintain CO₂ concentration below 0.5%

REUNION SHIPMENTS DECIDUOUS/PLUMS AND DECIDUOUS MIXED, WHERE PLUMS ARE IN THE MINORITY (NO TOLERANCE ALLOWED)

RDP1 minus 1.0°C

Carry at minus 1.0°C for the full duration of the voyage.

Note 1: Summer Pear Cultivars (refer pg.10 for cultivars)

RDO5 minus 0.5°C

Carry at minus 0.5°C for the full duration of the voyage.

RDD5 plus 0.5°C

Carry at plus 0.5°C for the full duration of the voyage.

RDD1 plus 1.0°C

Carry at plus 1°C for the full duration of the voyage.

Fresh air ventilation

- Integral containers – Closed
- Conventional decks – Maintain CO₂ concentration below 0,5%

REUNION SHIPMENTS: DECIDUOUS MIXED WITH VENTILATED PRODUCE (NO TOLERANCE ALLOWED)

RPO5 minus 0.5°C

Carry at minus 0.5°C for the full duration of the voyage.

RPD5 plus 0.5°C

Carry at plus 0.5°C for the full duration of the voyage.

RPD1 plus 1.0°C

Carry at plus 1°C for the full duration of the voyage.

Fresh air ventilation

Integral containers: 15m³ per hour

1.2.2 Standard requirements:

APPLES

DA1 minus 1.0°C

Carry at minus 1.0°C for the full duration of the voyage.

Process Owner : Bernard Henning

Approver: Vijan Chetty

DA2 minus 1.5°C (Only Apples in Bags)

Carry at minus 1.5°C for the full duration of the voyage.

D05 minus 0.5°C (All types of packaging)

Carry at minus 0.5°C for the full duration of the voyage.

DAV5 minus 0.5°C Fuji apples only

Carry at minus 0.5°C for the full duration of the voyage.

Fresh air ventilation

- Integral containers – Closed
Open (Fuji specific: 15m³ per hour)
- Conventional decks – Maintain CO₂ concentration below 0,5%

APRICOTS**D05 minus 0.5°C**

Carry at minus 0.5°C for the full duration of the voyage.

Fresh air ventilation

- Integral containers – Closed
- Conventional decks – Maintain CO₂ concentration below 0.5

CHERRIES**D05 minus 0.5°C**

Carry at minus 0.5°C for the full duration of the voyage.

Fresh air ventilation

- Integral containers – Closed
- Conventional decks – Maintain CO₂ concentration below 0,5%

GRAPES**D05 minus 0.5°C (maximum pulp temperature of 1.5°C)**

Carry at minus 0.5°C for the full duration of the voyage.

DG05 minus 0.5°C (maximum pulp temperature of 2.5°C)

Carry at minus 0.5°C for the full duration of the voyage.

Foreign Conditions**Refer to page 27**

Process Owner : Bernard Henning

Approver: Vijan Chetty

Fresh air ventilation

- Integral containers – Closed
- Conventional decks – Maintain CO₂ concentration below 0,5%

NECTARINES**D05 minus 0.5°C**

Carry at minus 0.5°C for the full duration of the voyage.

Fresh air ventilation

- Integral containers – Closed
- Conventional decks – Maintain CO₂ concentration below 0,5%

PEACHES**D05 minus 0.5°C**

Carry at minus 0.5°C for the full duration of the voyage.

Fresh air ventilation

- Integral containers – Closed
- Conventional decks – Maintain CO₂ concentration below 0,5%

PEARS**D05 minus 0.5°C**

Carry at minus 0.5°C for the full duration of the voyage.

DPV5 minus 0.5°C Abate pears only

Carry at minus 0.5°C for the full duration of the voyage.

SUMMER PEARS (In bags only)**DP1 minus 1.0°C**

Carry at minus 1°C for the full duration of the voyage.

DP2 minus 1.5°C

Carry at minus 1.5°C for the full duration of the voyage.

Note 1: Summer Pear Cultivars**Early BC****Bon Chretien****Bon Rouge****Rosemarie**

Process Owner : Bernard Henning

Approver: Vijan Chetty

Carry at minus 0.5°C; 2 days after departure raise the temperature to plus 7.5°C; after 5 days at plus 7.5°C (i.e. 7 days after departure) lower the temperature to minus 0.5°C and maintain until discharge.

PD6 minus 0.5°C /2d plus 7.5°C/6d Minus 0.5°C

PK6 minus 0.5°C /2d plus 7.5°C/6d Minus 0.5°C

PAD6 minus 0.5°C /2d plus 7.5°C/6d Minus 0.5°C

PAK6 minus 0.5°C /2d plus 7.5°C/6d Minus 0.5°C

Carry at minus 0.5°C; 2 days after departure raise the temperature to plus 7.5°C; after 6 days at plus 7.5°C (i.e. 8 days after departure) lower the temperature to minus 0.5°C and maintain until discharge.

PD7 minus 0.5°C /2d plus 7.5°C/7d Minus 0.5°C

PK7 minus 0.5°C /2d plus 7.5°C/7d Minus 0.5°C

PAD7 minus 0.5°C /2d plus 7.5°C/7d Minus 0.5°C

PAK7 minus 0.5°C /2d plus 7.5°C/7d Minus 0.5°C

Carry at minus 0.5°C; 2 days after departure raise the temperature to plus 7.5°C; after 7 days at plus 7.5°C (i.e. 9 days after departure) lower the temperature to minus 0.5°C and maintain until discharge.

PD8 minus 0.5°C /2d plus 7.5°C/8d Minus 0.5°C

PK8 minus 0.5°C /2d plus 7.5°C/8d Minus 0.5°C

PAD8 minus 0.5°C /2d plus 7.5°C/8d Minus 0.5°C

PAK8 minus 0.5°C /2d plus 7.5°C/8d Minus 0.5°C

Carry at minus 0.5°C; 2 days after departure raise the temperature to plus 7.5°C; after 8 days at plus 7.5°C (i.e. 10 days after departure) lower the temperature to minus 0.5°C and maintain until discharge.

PD9 minus 0.5°C /2d plus 7.5°C/9d Minus 0.5°C

PK9 minus 0.5°C /2d plus 7.5°C/9d Minus 0.5°C

PAD9 minus 0.5°C /2d plus 7.5°C/9d Minus 0.5°C

PAK9 minus 0.5°C /2d plus 7.5°C/9d Minus 0.5°C

Carry at minus 0.5°C; 2 days after departure raise the temperature to plus 7.5°C; after 9 days at plus 7.5°C (i.e. 11 days after departure) lower the temperature to minus 0.5°C and maintain until discharge.

PDX minus 0.5°C /2d plus 7.5°C/10d minus 0.5°C

PKX minus 0.5°C /2d plus 7.5°C/10d minus 0.5°C

PADX minus 0.5°C /2d plus 7.5°C/10d minus 0.5°C

PAKX minus 0.5°C /2d plus 7.5°C/10d minus 0.5°C

Carry at minus 0.5°C; 2 days after departure raise the temperature to plus 7.5°C; after 10 days at plus 7.5°C (i.e. 12 days after departure) lower the temperature to minus 0.5°C and maintain until discharge.

Plums shipped outside PD/PK conditions:

PDY Optional Code (via T13 dispensation route)

PKY Optional Code (via T13 dispensation route)

PADY Optional Code (via T13 dispensation route)

 PPECB	Carrying temperature regimes of perishable produce for sea export official PPECB instructions	HP22 / PP04.04-17	
		Rev : 11	Page 14 of 31
		Date: 10 April 2017	
Process Owner : Bernard Henning		Approver: Vijan Chetty	

PAKY Optional Code (via T13 dispensation route)

PDZ Optional Code (via PP04.02-02F01 dispensation route)

PKZ Optional Code (via PP04.02-02F01 dispensation route)

PADZ Optional Code (via PP04.02-02F01 dispensation route)

PAKZ Optional Code (via PP04.02-02F01 dispensation route)

PDA Optional Code (via PP04.02-02F01 dispensation route)

PKA Optional Code (via PP04.02-02F01 dispensation route)

PADA Optional Code (via PP04.02-02F01 dispensation route)

PAKA Optional Code (via PP04.02-02F01 dispensation route)

PDB Optional Code (via PP04.02-02F01 dispensation route)

PKB Optional Code (via PP04.02-02F01 dispensation route)

PADB Optional Code (via PP04.02-02F01 dispensation route)

PAKB Optional Code (via PP04.02-02F01 dispensation route)

PLUMS – EXPERIMENTAL (E) – Exporter to select own day/temperature arrangements and confirm these at time of booking.

PDE Experimental Option

PKE Experimental Option

PADE Experimental Option

PAKE Experimental Option

Fresh air ventilation

- Integral containers – 15m³ per hour
- Conventional decks – 4 hours per 24 hours

PU1 plus 0.5°C
Carry at plus 0.5°C for the full duration of the voyage

PU2 plus 2.0°C
Carry at plus 2.0°C for the full duration of the voyage

PU3 plus 3.0°C
Carry at plus 3°C for the full duration of the voyage

Fresh air ventilation

Integral containers: 15m³ per hour

Code Explanation:

P = Plums

D = Dual temperature (also “D” for Deciduous cold treatment)

K = Horizontal cooling kit

Process Owner : Bernard Henning

Approver: Vijan Chetty

Fruit will be carried under same regime codes and conditions as for non- treated produce with **ventilation requirements** as per automatic setting of units and by special arrangements by export and shipping line.

AVOCADOS**AVL plus 9.5°C/2d 9.0°C /6d 8.5°C****AVSL plus 9.5°C/2d 9.0°C /6d 8.5°C**

Carry at plus 9.5°C; 2 days after departure lower the temperature to plus 9.0°C; after 6 days at plus 9.0°C (i.e. 8 days after departure) lower to plus 8.5°C and maintain until discharge.

AV9 plus 9.0°C/2d 8.5°C /6d 8.0°C**AVS9 plus 9.0°C/2d 8.5°C /6d 8.0°C**

Carry at plus 9.0°C; 2 days after departure lower the temperature to plus 8.5°C; after 6 days at plus 8.5°C (i.e. 8 days after departure) lower to plus 8.0°C and maintain until discharge.

AV1 plus 8.0°C/2d 7.5°C/6d 7.0°C**AVS1 plus 8.0°C/2d 7.5°C/6d 7.0°C**

Carry at plus 8.0°C; 2 days after departure lower the temperature to plus 7.5°C; after 6 days at plus 7.5°C (i.e. 8 days after departure) lower to plus 7.0°C and maintain until discharge.

AV2 plus 7.0°C/2d 6.5°C/6d 6.0°C**AVS2 plus 7.0°C/2d 6.5°C/6d 6.0°C**

Carry at plus 7.0°C; 2 days after departure lower the temperature to plus 6.5°C; after 6 days at plus 6.5°C (i.e. 8 days after departure) lower to plus 6.0°C and maintain until discharge.

AV3 plus 6.5°C/2d 6.0°C/6d 5.5°C**AVS3 plus 6.5°C/2d 6.0°C/6d 5.5°C**

Carry at plus 6.5°C; 2 days after departure lower the temperature to plus 6.0°C; after 6 days at plus 6.0°C (i.e. 8 days after departure) lower to plus 5.5°C and maintain until discharge.

AV4 plus 6.5°C/2d 4.0°C/6d 3.5°C**AVS4 plus 6.5°C/2d 4.0°C/6d 3.5°C**

Carry at plus 6.5°C; 2 days after departure lower the temperature to plus 4.0°C; after 6 days at plus 4.0°C (i.e. 8 days after departure) lower to plus 3.5°C and maintain until discharge.

AV5 plus 6.0°C/2d 5.5°C/6d 5.0°C**AVS5 plus 6.0°C/2d 5.5°C/6d 5.0°C**

Carry at plus 6.0°C; 2 days after departure lower the temperature to plus 5.5°C; after 6 days at plus 5.5°C (i.e. 8 days after departure) lower to plus 5.0°C and maintain until discharge.

AVH plus 6.0°C/2d 5.0°C/6d 4.5°C**AVSH plus 6.0°C/2d 5.0°C/6d 4.5°C**

Carry at plus 6.0°C; 2 days after departure lower the temperature to plus 5.0°C; after 6 days at plus 5.0°C (i.e. 8 days after departure) lower to plus 4.5°C and maintain until discharge.

Process Owner : Bernard Henning

Approver: Vijan Chetty

AV6 : plus 5.5°C/2d 5.0°C/6d 4.5°C**AVS6** plus 5.5°C/2d 5.0°C/6d 4.5°C

Carry at plus 5.5°C; 2 days after departure lower the temperature to plus 5.0°C; after 6 days at plus 5.0°C (i.e. 8 days after departure) lower to plus 4.5°C and maintain until discharge.

AVY plus 5.5°C/2d 5.0°C/6d 4.0°C**AVSY** plus 5.5°C/2d 5.0°C/6d 4.0°C

Carry at plus 5.5°C; 2 days after departure lower the temperature to plus 5.0°C; after 6 days at plus 5.0°C (i.e. 8 days after departure) lower to plus 4.0°C and maintain until discharge.

AVQ plus 4.0°C/2d 3.0°C/6d 2.0°C**AVSQ** plus 4.0°C/2d 3.0°C/6d 2.0°C

Carry at plus 4.0°C; 2 days after departure lower the temperature to plus 3.0°C; after 6 days at plus 2.0°C (i.e. 8 days after departure) lower to plus 2.0°C and maintain until discharge.

AV7 plus 5.0°C/2d 4.5°C/6d 3.5°C**AVS7** plus 5.0°C/2d 4.5°C/6d 3.5°C

Carry at plus 5.0°C; 2 days after departure lower the temperature to plus 4.5°C; after 6 days at plus 4.5°C (i.e. 8 days after departure) lower to plus 3.5°C and maintain until discharge.

AV8 plus 4.5°C/8d 3.5°C**AVS8** plus 4.5°C/8d 3.5°C

Carry at plus 4.5°C; 8 days after departure lower the temperature to plus 3.5°C and maintain until discharge.

AVO plus 4.5°C/8d 4.0°C**AVSO** plus 4.5°C/8d 4.0°C

Carry at plus 4.5°C; 8 days after departure lower the temperature to plus 4.0°C and maintain until discharge

AVM plus 5.0°C/8d 4.5°C**AVSM** plus 5.0°C/8d 4.5°C

Carry at plus 5.0°C; 8 days after departure lower the temperature to plus 4.5°C and maintain until discharge

AVN plus 5.5°C/8d 5.0°C**AVSN** plus 5.5°C/8d 5.0°C

Carry at plus 5.5°C; 8 days after departure lower the temperature to plus 5.0°C and maintain until discharge

AVR plus 6.0°C/8d 5.5°C**AVSR** plus 6.0°C/8d 5.5°C

Carry at plus 6.0°C; 8 days after departure lower the temperature to plus 5.5°C and maintain until discharge



**Carrying temperature regimes of perishable
produce for sea export official PPECB
instructions**

HP22 / PP04.04-17

Rev : 11

Page 18 of 31

Date: 10 April 2017

Process Owner : Bernard Henning

Approver: Vijan Chetty

AVK plus 7.5°C/8d 6.0°C

AVSK plus 7.5°C/8d 6.0°C

Carry at plus 7.5°C; 8 days after departure lower the temperature to plus 6.0°C and maintain until discharge

AVI plus 8.0°C/8d 7.5°C

AVSI plus 8.0°C/8d 7.5°C

Carry at plus 8.0°C; 8 days after departure lower the temperature to plus 7.5°C and maintain until discharge

AVP plus 4.0°C

AVSP plus 4.0°C

Carry at plus 4.0°C for the full duration of the voyage

AVG plus 4.5°C

AVSG plus 4.5°C

Carry at plus 4.5°C; for the full duration of the voyage.

AVF plus 5.0°C

AVSF plus 5.0°C

Carry at plus 5.0°C; for the full duration of the voyage.

AVA plus 5.5°C

AVSA plus 5.5°C

Carry at plus 5.5°C for the full duration of the voyage.

AVB plus 6.0°C

AVSB plus 6.0°C

Carry at plus 6.0°C for the full duration of the voyage.

AVJ plus 6.5°C

AVSJ plus 6.5°C

Carry at plus 6.5°C for the full duration of the voyage.

AVC plus 7.0°C

AVSC plus 7.0°C

Carry at plus 7.0°C for the full duration of the voyage.

AVD plus 8.0°C

AVSD plus 8.0°C

Carry at plus 8.0°C for the full duration of the voyage.

AVE plus 9.0°C

AVSE plus 9.0°C

Carry at plus 9.0°C for the full duration of the voyage

Process Owner : Bernard Henning

Approver: Vijan Chetty

Fresh air ventilation

All regular atmosphere (RA) shipments must be ventilated as follows:

- Integral containers – 15 m³ per hour
(**SMARTFRESH INCLUDED**)
- Conventional decks – 4 hours per 24 hours
- Controlled Atmosphere (CA) – Vents closed at all times

Modified Atmosphere (MA) – In the case of a “MAX tend” valve being fitted.

The vent cover must be **in the “OPEN” position** at all times to allow the installed valve to regulate the air flow.**BANANAS****BN1 plus 12°C**

Carry at plus 12°C for the full duration of the voyage.

Fresh air ventilation

- Integral container – 30m³ per hour
- Conventional deck – Maintain the CO₂ levels below 0,5%

GUAVAS**G75 plus 7.5°C**

Carry at plus 7.5°C for the full duration of the voyage.

Fresh air ventilation

- Integral containers – 15m³ per hour
- Conventional decks – Maintain CO₂ concentration below 0,5%

KIWI FRUIT**K05 minus 0.5°C**

Carry at minus 0.5°C for the full duration of the voyage.

Fresh air ventilation

- Integral containers – 15m³ per hour
- Conventional decks – Maintain CO₂ concentration below 0,5%

LITCHIS**L00 0.0°C**

Carry at 0.0°C for the full duration of the voyage.

Process Owner : Bernard Henning

Approver: Vijan Chetty

L01 plus 1°C
Carry at plus 1°C for the full duration of the voyage.

LP1 plus 1°C
Carry at plus 1°C for the full duration of the voyage.
("Purfresh" conditions) indicate where the fresh air ventilation setting is 25m³ per hour and maintained for the full duration of the voyage

L02 plus 2.0°C
Carry at plus 2.0°C for the full duration of the voyage.

(LITCHIS Chemical Treated Only)

L05 minus 0.5°C
Carry at minus 0.5°C for the full duration of the voyage.

Fresh air ventilation

- Integral containers – 15m³ per hour
- Conventional decks – Continuous

MANGOES

M08 plus 8°C
Carry at plus 8°C for the full duration of the voyage.

M09 plus 9°C
Carry at plus 9°C for the full duration of the voyage.

M10 plus 10°C
Carry at plus 10°C for the full duration of the voyage.

M11 plus 11°C
Carry at plus 11°C for the full duration of the voyage.

M12 plus 12°C
Carry at plus 12°C for the full duration of the voyage.

M13 plus 13°C (Heidi cultivar only)
Carry at plus 13°C for the full duration of the voyage.

MOX plus 12°C/7d 10°C (Voyage not exceeding 16 days)

MAOX plus 12°C/7d 10°C (Voyage not exceeding 16 days)

Carry at plus 12°C, 7 days after departure lower the temperature to plus 10°C and maintain until discharge.

Process Owner : Bernard Henning

Approver: Vijan Chetty

MOZ plus 10°C/7d 8°C**MAOZ plus 10°C/7d 8°C**

Carry at plus 10°C 7 days after departure lower the temperature to plus 8°C and maintain until discharge.

Fresh air ventilation

- Integral containers – 40m³ or 15m³ per hour (exporter to select)
- Conventional decks – Continuous

NUTS**N + Temperature**

Nuts to be specified by the exporter.

Fresh air ventilation

- Integral containers – 15m³ per hour
- Conventional decks – Maintain CO₂ concentration below 0,5%

PAPAYA**P10 plus 10°C**

Carry at plus 10°C for the full duration of the voyage.

Fresh air ventilation

- Integral containers – 15m³ per hour
- Conventional decks – Maintain CO₂ concentration below 0,5%

PASSION FRUIT**PA8 plus 8.5°C**

Carry at plus 8.5°C for the full duration of the voyage.

Fresh air ventilation

- Integral containers – 15m³ per hour
- Conventional decks – Maintain CO₂ concentration below 0,5%

PINEAPPLES**A08 plus 8°C**

Carry at plus 8°C for the full duration of the voyage.

A09 plus 9°C

Carry at plus 9°C for the full duration of the voyage.

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Approver: Vijan Chetty

A10 plus 10°C
Carry at plus 10°C for the full duration of the voyage.

A11 plus 11°C
Carry at plus 11°C for the full duration of the voyage.

A12 plus 12°C
Carry at plus 12°C for the full duration of the voyage.

APD Optional Code – Dual Temperatures (Via **PP04.02-02F01** – dispensation route)

AAPD Optional Code – Dual Temperatures (Via **PP04.02-02F01** – dispensation route)

APE Optional Code – Dual Temperatures (Via **PP04.02-02F01** – dispensation route)

AAPE Optional Code – Dual Temperatures (Via **PP04.02-02F01** – dispensation route)

Fresh air ventilation

- Integral containers – 15m³ per hour
- Conventional decks – Maintain CO₂ concentration below 0,5%

PRICKLY PEARS

PR2 plus 2°C
Carry at plus 2°C for the full duration of the voyage.

PR3 plus 3°C
Carry at plus 3°C for the full duration of the voyage.

PR4 plus 4°C
Carry at plus 4°C for the full duration of the voyage.

PR5 plus 5°C
Carry at plus 5°C for the full duration of the voyage.

PR6 plus 6°C
Carry at plus 6°C for the full duration of the voyage.

PR7 plus 7°C
Carry at plus 7°C for the full duration of the voyage.

PR8 plus 8°C
Carry at plus 8°C for the full duration of the voyage.

Fresh air ventilation

- Integral containers – 15m³ per hour
- Conventional decks – Maintain CO₂ concentration below 0,5%

Process Owner : Bernard Henning

Approver: Vijan Chetty

POMEGRANATE**PG4 plus 4.0°C**

Carry at plus 4°C for the full duration of the voyage.

PG5 plus 5.0°C

Carry at plus 5°C for the full duration of the voyage.

PG6 plus 6.0°C

Carry at plus 6°C for the full duration of the voyage.

PG7 plus 7.0°C

Carry at plus 7°C for the full duration of the voyage.

PG8 plus 8.0°C

Carry at plus 8°C for the full duration of the voyage.

PGX plus 10.0°C

Carry at plus 10°C for the full duration of the voyage.

Fresh air ventilation

- Integral containers – 15m³ per hour

1.4 VEGETABLES:

Carry at the following temperatures for the full duration of the voyage.

V + Temperature

Artichokes	plus	0.5°C
Asparagus	plus	0.5°C
Aubergines	plus	8.5°C
Baby Marrows	plus	10.0°C
Beetroot	plus	0.5°C
Brinjals	plus	8.5°C
Broccoli	plus	0.0°C to 0.5°C
Brussels Sprouts	plus	0.5°C
Butternuts	plus	11.0°C to 14.0°C
Carrots	plus	1.0°C
Capsicum	plus	8.5°C
Cabbage	plus	0.5°C
Cauliflower	plus	0.5°C
Celery	plus	0.5°C
Chicory	plus	0.5°C

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Approver: Vijan Chetty

Courgettes	plus	10.0°C
Corn	plus	0.0° to 2.0°C
Cucumbers	plus	8.0°C
Egg Fruit	plus	8.5°C
Endives	plus	0.5°C
Garlic	plus	0.5°C to 20.0°C
Gem Squash	plus	0.5°C to 4.0°C
Ginger	plus	10.0°C
Green Beans	plus	7.0°C
Green Onions	plus	0.5°C
Green Peas	plus	0.5°C
Leeks	plus	0.5°C
Lettuce	plus	0.5°C
Mushrooms	plus	0.5°C
Onions	plus	0.5°C to 20.0°C
Peppers	plus	8.5°C
Potatoes (Seed)	plus	2.0°C
Potatoes (Other)	plus	5.5°C to 12.0°C
Pumpkins	plus	11.0°C
Radishes	plus	0.5°C
Spinach	plus	0.5°C
Spring Onions	plus	0.5°C
Sweet Potatoes	plus	14.0°C
Squash – Hubbard	plus	11.0°C to 14.0°C
Squash -Table Queen	plus	0.5°C to 4.0°C
Tomatoes	plus	4.5°C to 12.0°C

(Note: The riper, the lower the temperature)

Turnips	plus	0.5°C
Zucchini	plus	10.0°C

Fresh air ventilation

- Integral containers 15 m³ per hour continuous
- Conventional decks Maintain the CO₂ levels below 0,5%
- No ventilation for transport under CA conditions

Exceptions

- Maximum ventilation for onions and garlic – if shipped under normal conditions.
- When shipped under dehumidification conditions:
15 m³ ventilation
- These conditions must be specified during booking process.

1.5 PLANT MATERIAL, CUTTINGS, WHOLE PLANTS, POTTED AND BULBS:

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T + Temperature

Azalea	plus	4.5°C
Cactus	plus	12.0°C
Cape Greenery	plus	2.0°C
Ferns Knysna	plus	2.0°C
Ferns Tropical	plus	5.0°C
Strawberry	plus	0.5°C
Proteas	plus	1.5°C
Others	plus	2.5°C
	plus	3.5°C

Bulbs: To be specified by exporter

Aspidistra	plus	12°C
Azalea	plus	4.5°C
Cacti	plus	12 °C
Dieffenbachia	plus	16°C
Dracoena	plus	16°C
Ficus	plus	13°C
Philodendron	plus	13°C
Scheffera	plus	10°C

Fresh air ventilation

- Integral containers 15m³ per hour
- Conventional decks Maintain CO₂ concentration below 0.5%
(Or as per shipper/exporters instruction)

Exception:**TDT plus 2.5°C/8 d Plus 3.5°C****TADT plus 2.5°C/8 d Plus 3.5°C**

Carry at plus 2.5°C; 8 days after departure raise the temperature to plus 3.5°C and maintain until discharge.

Fresh air ventilation

- Integral containers – Closed
- (Or as per shipper/exporters instruction)

1.6 OTHER PRODUCTS:**E + Temperature**

Melons to be specified by exporter

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Watermelons to be specified by exporter

Fresh air ventilation

- Integral containers – 15m³ per hour
- Conventional decks – Maintain CO₂ concentration below 0,5%

BLUEBERRIES**BRO 0.0°C**

Carry at 0.0°C for the full duration of the voyage

Fresh Air ventilation

- Integral containers – 15m³ per hour
- Controlled Atmosphere (CA) – Vents closed at all times

FROZEN PRODUCTS

- F60** = To be carried at a Return Air Temperature of minus 60°C or colder.
- F30** = To be carried at a Return Air Temperature of minus 30°C or colder.
- F29** = To be carried at a Return Air Temperature of minus 29°C or colder.
- F28** = To be carried at a Return Air Temperature of minus 28°C or colder.
- F27** = To be carried at a Return Air Temperature of minus 27°C or colder.
- F26** = To be carried at a Return Air Temperature of minus 26°C or colder.
- F25** = To be carried at a Return Air Temperature of minus 25°C or colder.
- F23** = To be carried at a Return Air Temperature of minus 23°C or colder.
- F22** = To be carried at a Return Air Temperature of minus 22°C or colder.
- F21** = To be carried at a Return Air Temperature of minus 21°C or colder.
- F20** = To be carried at a Return Air Temperature of minus 20°C or colder.
- F19** = To be carried at a Return Air Temperature of minus 19°C or colder.
- F18** = To be carried at a Return Air Temperature of minus 18°C or colder.
- F17** = To be carried at a Return Air Temperature of minus 17°C or colder.

Process Owner : Bernard Henning

Approver: Vijan Chetty

- F16** = To be carried at a Return Air Temperature of minus 16°C **only**.
(Frozen Citrus Concentrate to Europe only)
- F15** = To be carried at a Return Air Temperature of minus 15°C or colder.
- F14** = To be carried at a Return Air Temperature of minus 14°C or colder
- F12** = To be carried at a Return Air Temperature of minus 12°C or colder.
- F10** = To be carried at a Return Air Temperature of minus 10°C or colder.

Fresh air ventilation

- Integral containers – Closed
- Conventional decks – Closed

CHILLED PRODUCTS UNSPECIFIED:**X + Temperature** (carried at a plus temperature – with vests open)**H + Temperature** (carried at a minus temperature – with vents open)**Fresh air ventilation**

- Integral containers – 15m³ per hour
- Conventional decks – Maintain CO₂ below 0,5%

Q + Temperature (carried at a plus temperature – with vents closed)**U + Temperature** (carried at a minus temperature – with vents closed)**MEAT PRODUCTS****B05 minus 0.5°C**

Chilled beef	minus 0.5°C
Chilled mutton	minus 0.5°C
Chilled ostrich	minus 0.5°C
Chilled pork	minus 0.5°C
Chilled poultry	minus 0.5°C
Chilled processed	minus 0.5°C

B01 minus 1.0°C

CHILLED MEAT minus 1.0°C

BB1 plus 1.0°C

CHILLED BEEF plus 1.0°C

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Approver: Vijan Chetty

B00 0.0°C

CHILLED BEEF plus 0.0°C

B15 minus 1.5°C

CHILLED BEEF minus 1.5°C

Fresh air ventilation

- Integral containers – Closed
- Conventional decks – Closed

DAIRY PRODUCTS

S00	=	Butter	0.0°C
S01	=	Butter	plus 1.0°C
S12	=	Long Life Milk	plus 12.0°C
SM2	=	Margarine	plus 2.0°C
SM3	=	Margarine	plus 3.0°C
SM4	=	Margarine	plus 4.0°C
SM5	=	Margarine	plus 5.0°C

CHEESE**Z + Temperature****Fresh air ventilation – Milk and/or cream based products**

- Integral containers – Closed
- Conventional decks – Closed

EGGS**SE + Temperature****Fresh air ventilation - Eggs**

- Integral containers – 15m³ per hour
- Conventional decks – Maintain CO₂ concentration below 0,5%

DRIED FRUIT**R + Temperature****Fresh air ventilation**

- Integral containers – 15m³ per hour
- Conventional decks – Maintain CO₂ concentration below 0,5%

 PPECB	Carrying temperature regimes of perishable produce for sea export official PPECB instructions	HP22 / PP04.04-17	
		Rev : 11	Page 29 of 31
		Date: 10 April 2017	
Process Owner : Bernard Henning		Approver: Vijan Chetty	

CONFECTIONARY / CHOCOLATES

O + Temperature

Chocolates wrapped 16°C
 Chocolates confectionary
Confectionary

Fresh air ventilation

- Integral containers – Closed
- Conventional decks – Closed

CANDLES

J + Temperature

Fresh air ventilation

- Integral containers – Closed
- Conventional decks – Closed

COOL STOW CONDITIONS - T13 dispensation arrangement

CSC Stowed in GP containers under protected conditions

WINE

Y + Temperature

Fresh air ventilation

- Integral containers – Closed
- Conventional decks – Closed

2.0 FOREIGN CODES/ PRODUCTS:

PRE-COOLED AND HANDLED IN A FOREIGN COUNTRY, NO PPECB INVOLVEMENT (FOR STATS PURPOSE ONLY)

- DFA** = Deciduous and grapes plus 0.5°C
- DF5** = Deciduous and grapes minus 0.5°C

PRE-COOLED, HANDLED AND SHIPPED UNDER RSA CONDITIONS, PPECB SUPERVISION

- DFZ** = Deciduous and grapes minus 0.5°C

❖ **FOREIGN CARGO (DFA, DF5 AND DFZ) CANNOT BE STORED AND SHIPPED IN THE SAME COMMON COOLING SPACE AS RSA CARGO.**

Process Owner : Bernard Henning

Approver: Vijan Chetty

CF5	=	Chilled Beef	minus 0.5°C
FF2	=	Frozen Beef	minus 20°C or colder
CZ	=	Citrus + Temperature- ZIM fruit:	
		Loaded separately in RSA or outside RSA borders	
CS	=	Citrus + Temperature- Swazi fruit:	
		Loaded separately in RSA or outside RSA borders	
CT	=	Citrus + Temperature – Mix Loads	

3.0 OTHER EQUIPMENT:

3.1 **VEN** = Passive ventilation:

- General Purpose Container or Open Door Shipment – To be stowed with doors open and facing aft on vessel.
Cargo must be protected during inclement weather
- Open Sides and Flatrack Container – To be stowed with tarpaulins rolled-up
Tarpaulins must be let down during inclement weather
- Open Top – to be stowed with tarpaulins rolled open, which must be closed during inclement weather
- Ventainer – to be stowed on deck in a position to allow for natural ventilation through the container

3.2 **FAN** = Fantainer:

Electrically ventilated container must be plugged in. Ensure that fan operate correctly, in order to allow fresh air to circulate through cargo.

4.0 CANCELLED CODES (**Not to be used**)

PD2	-	Plums
PD3	-	Plums
PK3	-	Plums
PAD3	-	Plums
PAK3	-	Plums
PC4	-	Plums
PK	-	Plums
PSX	-	Plums
PKSX	-	Plums
PSY	-	Plums
PKSY	-	Plums
PSZ	-	Plums
PKSZ	-	Plums
PASD	-	Plums
PKAD	-	Plums



**Carrying temperature regimes of perishable
produce for sea export official PPECB
instructions**

HP22 / PP04.04-17

Rev : 11

Page 31 of 31

Date: 10 April 2017

Process Owner : Bernard Henning

Approver: Vijan Chetty

PU5	-	Plums
PAU5	-	Plums
PU7	-	Plums
PAU7	-	Plums
PU9	-	Plums
PAU9	-	Plums
PE1-9	-	Plums (Experimental)
PB1-9	-	Plums (Experimental)
VP8	-	Potatoes
VTY	-	Tomatoes (green)
B + Temperature	-	Bulbs
S04	-	Dairy Products
S05	-	Cheese
S08	-	Cheese
GU1	-	Guavas
AVX	-	Avocados
AAVL	-	Avocados
AAV1	-	Avocados
AAV2	-	Avocados
AAV3	-	Avocados
AAV4	-	Avocados
AAV5	-	Avocados
AAV6	-	Avocados
AAV7	-	Avocados
AAV8	-	Avocados
AAV9	-	Avocados
AAVH	-	Avocados
AAVG	-	Avocados
AAVY	-	Avocados