



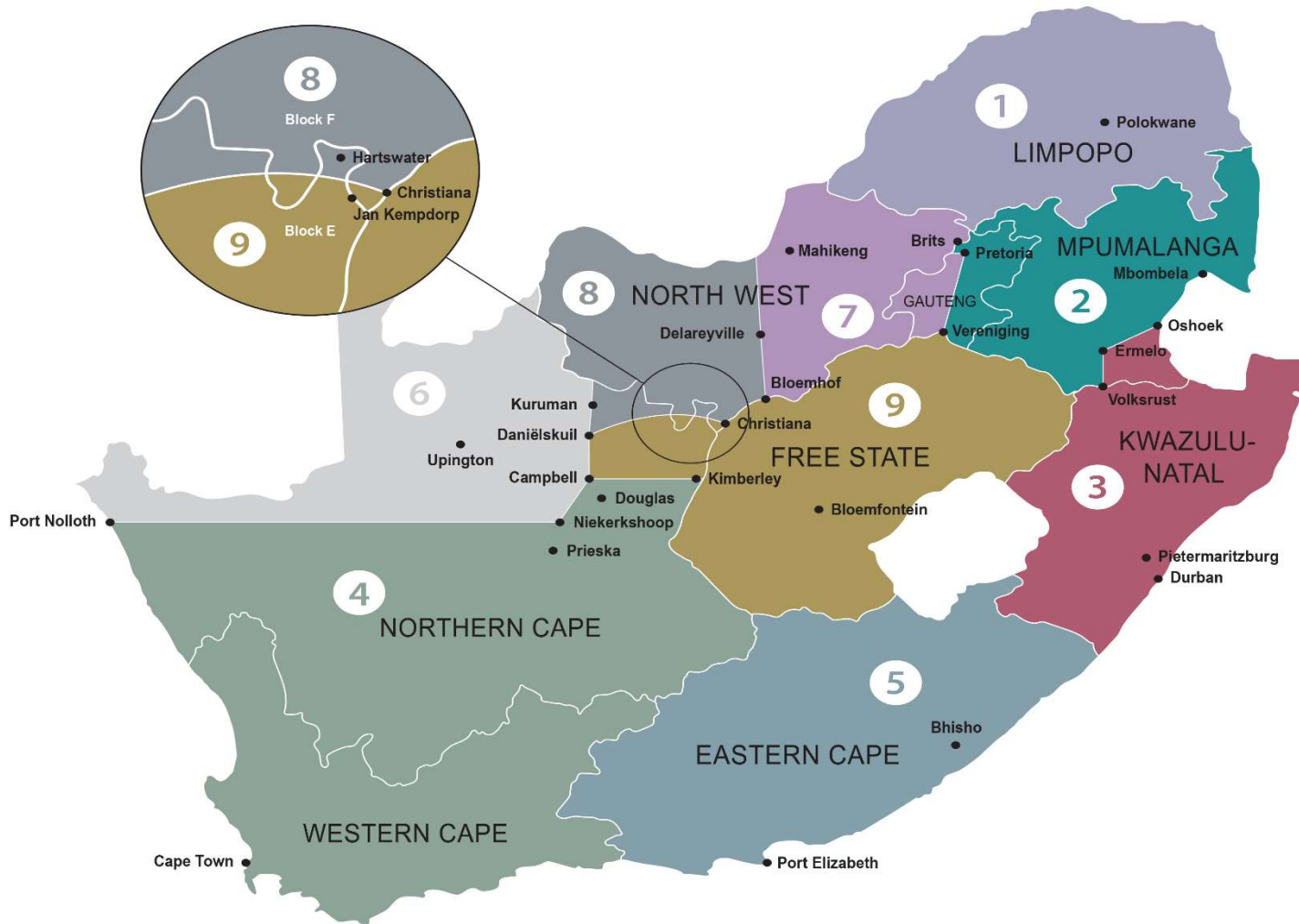
# The South African Experience

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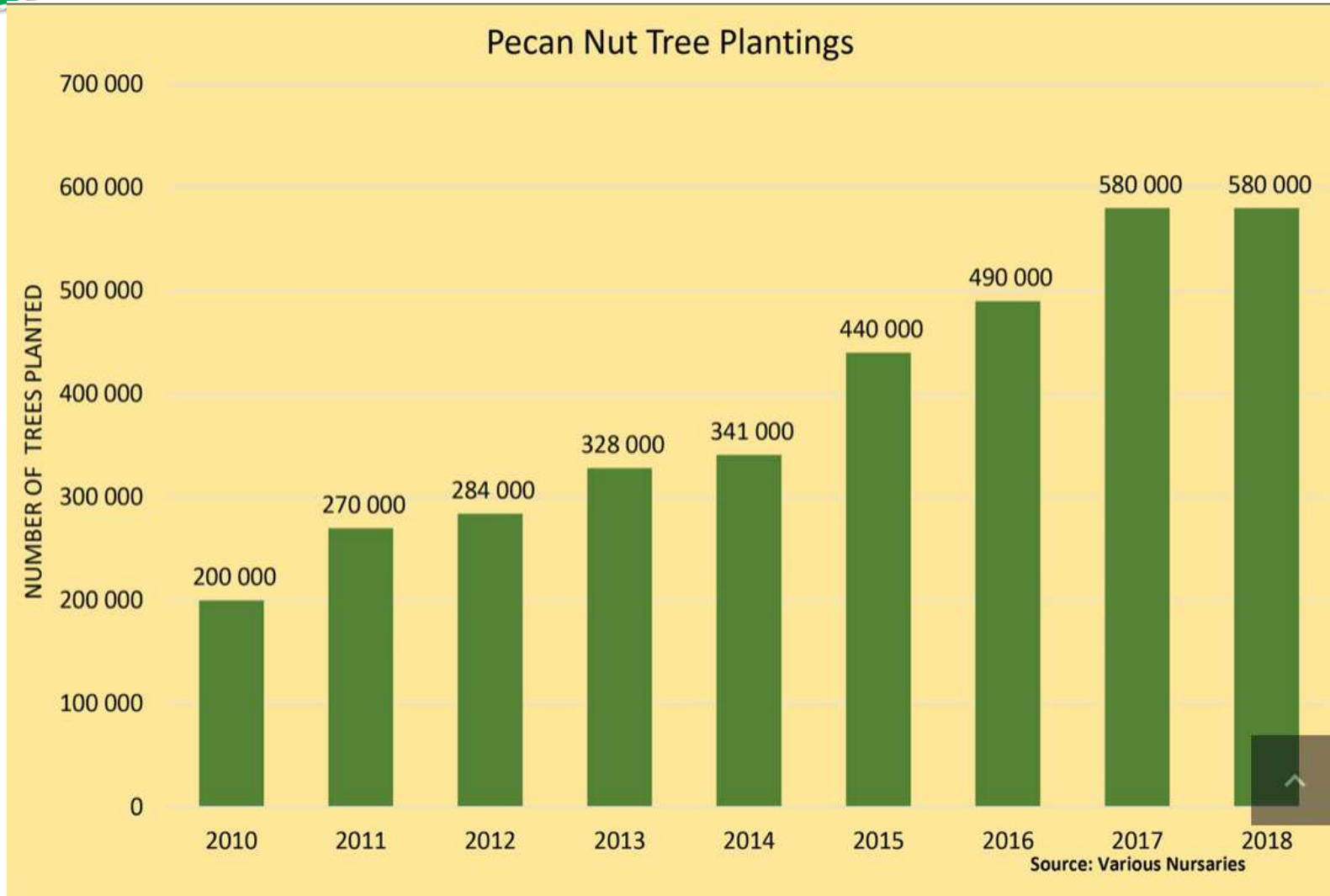
# Regions



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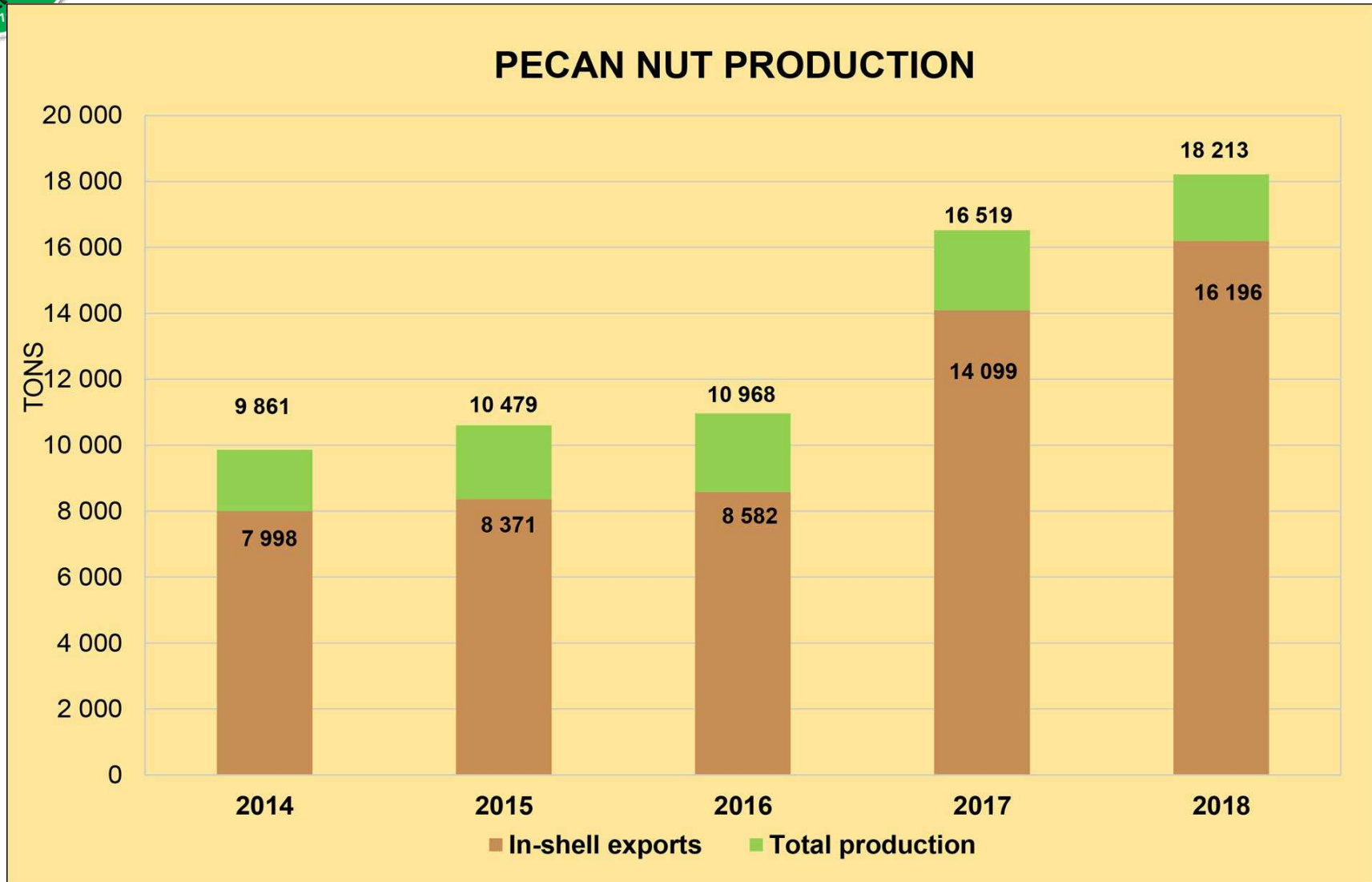
# Pecan Nut Tree Plantings



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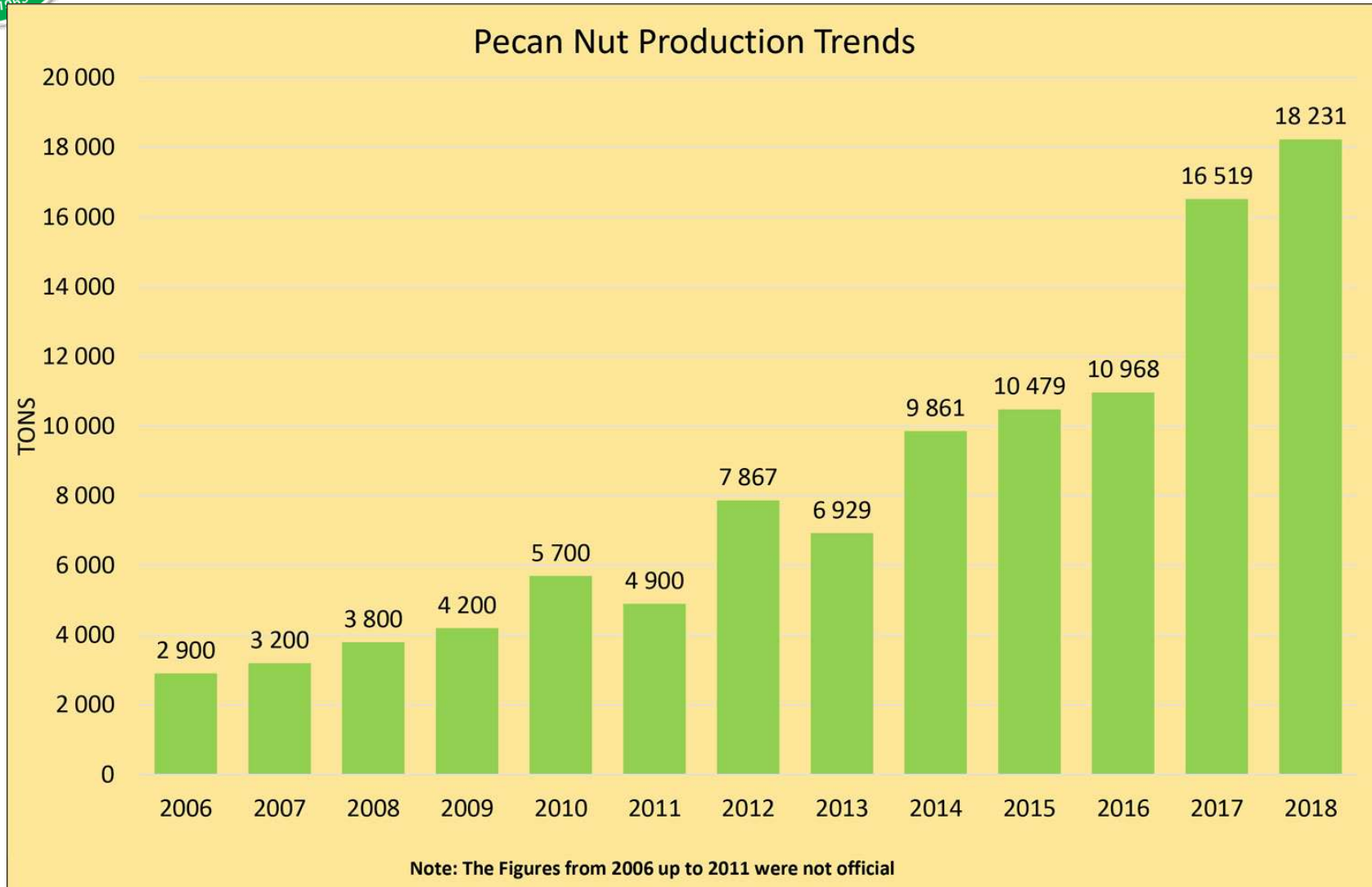
# Pecan Nut Production



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# Pecan Production



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# Processors

- 26 Processors of Nuts Registered
- World Players among them:
- **GWK Pecans - Upington / Douglas, Northern Cape**
- HL Hall & Sons - Mbombela, Mpumalanga
- **GPC Pecan / SA Pecans - Hartswater, NCape**
- Roux Pecans( Organic Pecans Orange River Upington
  
- <https://www.rouxpecans.com/about-us>

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# Pecan-Nursery

- 37 Nursery



Winter Cover Crops



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# Cover Crops



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# 4 Yrs Cash Crop Conversion



[s://greengrowpecan.com/kwotasie/](https://greengrowpecan.com/kwotasie/)

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# Airpot Pecan Production



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# Root Formation Young Trees

- Left: 2 Months Planted Early December: Right Transplanted August Last year



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# Omnia Group Fertiliser Norms- Pecan Nuts

- All the work has been done in South Africa.
- THE OMNISAP study was developed in South Africa with a 3 year Nutritional Survey on Pecan Nuts

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## Omnia Group – Pecan Nuts

- At plant: In the year the trees are planted, we only apply nutrition in the plant hole.
- IN A WHOLE 0.6x0.6x1.2m we apply minimum, 300g SuperPhosphate (preferable coated with Molybdenum) 200g ZnSO<sub>4</sub> Mixed with the soil. Drench the whole with water that is made with Mega Kel P @600ml/100liter water
- Follow this up with drenches of OmniBio at 10 MI/Plant mixed in 200 Litre .
- Spray Trees with a drench of 500 MI Mega kel P, 100 MI OmniZinc till runoff every 5-6 weeks to help with development. After 3 Months of active growing, apply 50 Gram Calcium Nitrate around the base to help with development.



## Omnia Group – Pecan Nuts Fert Norms

- From Year 2, we are working on 8N, 4P, 6K /HA per year old tree. For example, when a tree is 3 YEAR old – then the application is 8Nx3, 4Px3, 6Kx3. SO in total – 24N, 12P, 18K/HA. This norm we apply till the trees years a age of 12 years , from where on all the trees is being handle as 12 year old

Year	N	P	K
2 Year	16	8	12
3 Year	24	12	18
4Year	32	16	24
5 Year	40	20	30
6Year	48	24	36
7Year	56	28	42
8Year	64	32	48
9 Year	72	36	54
10Year	80	40	60
11Year	88	44	66
12 Year	96	48	72



## Start of Yield- Pecan Nuts

- The Moment the trees started Yielding, we start to Apply 16 Kg N, 4 p and 13 Kg K additional /ton Yield /ha. So for example when a tree is 15 year old and 3.5 Ton Yield/ha, then the situation is as follows.
- 12 Year Old: (12Years x 8N, 12 x 4P, 12 x 6K) + Yield additional: (3.5t/Ha x 16N, 3.5 x 4P, 3.5 x 13K). So in total then 152N, 62P, 117.5K.
- As die P-analysis is high, we will typical lower the P recommendation to 50-54P.



## Foliar Nutrition- Pecan Nuts

- Foliar spray we try and address Zinc Monthly. We have learned it is always advisable adding trace elements to a NADP energy source( Like Mega Kel P)
- We apply monthly before the most crucial stage Mega Kel p at 600 MI/100 Litre water, add Multi-mate at 200MI/100 Litre water( Multi-mate is all the traces, including Copper which prevent Mouse ear)
- Fertiliser Programs- Omnia is doing programs with water-soluble, Calci Granular and Speciality Liquids(OFOS System)

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# OmniSap Main Growth Stage (MGS) & Norm Updates- Pecan Nuts

January 2016

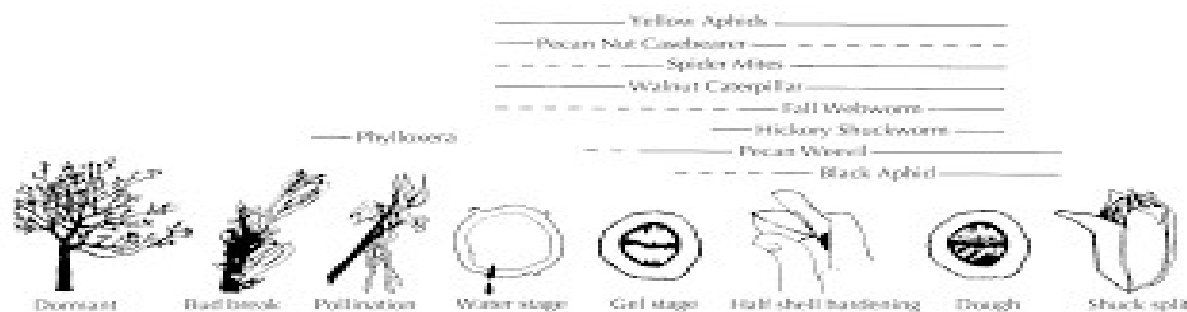
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# Pecan Nuts

Pecanuts Main Growth Stage	Time Line	MGS Code
Budbreak	1 - 30 September	1
Pollination	1 - 31 October	2
Nut elongation & Expansion	1 November - 31 January	3
Kernel Development	1 February - 14 April	4
Shuck Split	15 April - 15 May	5



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# SAP Report

**OmniSap® Report**

Critical Low
Low
Normal
High

Ammonium-N (-98)	█
Nitrate-N	
Phosphate	█
Potassium (-22)	█
Calcium	█
Magnesium	█
Sulphur (61)	█
Sodium (936)	█
Iron (-83)	█
Zinc	█
Manganese	█
Aluminium (27)	█
Copper (-26)	█
Boron (-9)	█
Silicon (-49)	█

\*the science of growing • wetenskap vir groei

Client	AusPecans
Farm Name	Homestead
Land Number	Homestead (Homestead)
Form Number	QRN00002
Sample Number	JP1707 : AP 110312723
Sample Date	2019/03/17
Report Date	2019/03/21
Agronomist	Johan Prinsloo
Crop	Pecanut
Cultivar	Wichita
Cultivation	Irrigation
Growth Stage	Kernel Development
Norm	NC Irr

7:1

█ NH<sub>4</sub>-N █ NO<sub>3</sub>-N

<sup>o</sup>Brix

Sap pH

Amm Toxicity

N	M	H
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Growth Rate						
Poor	1	2	3	X	5	Good

Water Status						
Wilted	1	2	3	4	X	No Stress

**DISCLAIMER:**  
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# Summary of Growers in SA

- **2 Best things on Planting a Pecan Nut:**
  - 1<sup>St</sup>: Should have been planted 16 Years ago
  - 2<sup>Nd</sup>: If you can, plant it this year.
- 
- Thank you.

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