

REVISTA BIA # 292

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LA FUERZA DE LA NATURALEZA
con bajo impacto ambiental

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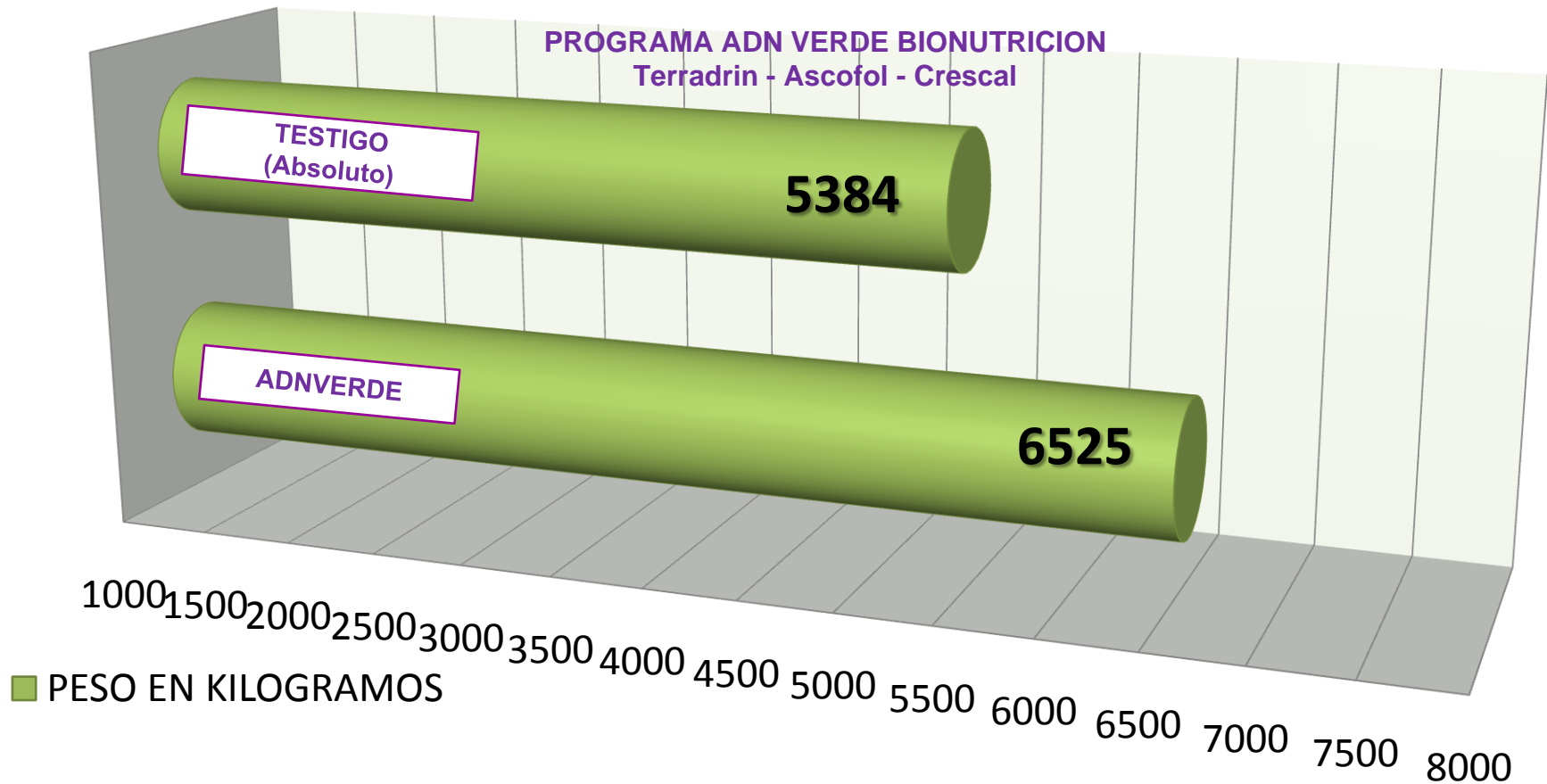


“Aprendan esta enseñanza de la higuera: cuando sus ramas se ponen tiernas, y brotan sus hojas, se dan cuenta ustedes de que ya el verano está cerca” JESUCRISTO



PROGRAMA BIONUTRICIÓN-BIOPROTECCION ADN VERDE EN ARROZ

FINCA LA PESQUERA



ZONA LLANOS ORIENTALES DE COLOMBIA – AGUAZUL CASANARE

Healthy soils are key to biodiversity, food security and play a fundamental role in fighting climate change. Carbon-rich soils are like sponges absorbing water during floods and releasing it during drought. Yet when soils are damaged, they release CO₂. Organic farming puts carbon back into soils by keeping them covered with plants, increasing crop diversity, composting and carefully planned grazing.

“The only sustainable circular economy is a clean one, with hazardous materials phased out. We now need rapid action to get the worst chemicals out of the economy, so they no longer disrupt recycling and the rest of the circular economy.”

The global market size of organic fruits and vegetables is projected to reach about USD 62.97 Billion by 2020, at a compound annual growth rate (CAGR) of 9.4% from 2015, with the increasing consumption of organic fruits and vegetables in various forms. Furthermore, rising opportunities in emerging markets such as India, China, and Brazil are projected to augment the size of the organic fruits and vegetables market during the forecast period. In 2014, North America was the largest market for organic fruits and vegetables. The market in the Asia-Pacific region is projected to grow at the highest CAGR during the forecast period, followed by Europe.

- **Honduras aumenta la exportación de banano un 6,3% en volumen**

Las exportaciones de banano hondureño subieron el 10,6% en divisas y el 6,3% en volumen en el tercer trimestre de 2015 en comparación con el mismo lapso del año pasado, informó el Banco Central del país centroamericano. Honduras envió al exterior 24.265 cajas de 18 kilos de banano entre enero y septiembre.

Counterfeit pesticides are gaining market share in India, the world's fourth biggest pesticide maker and sixth biggest exporter.

Key points **INDIA PESTICIDES:**

- Fake pesticides account for up to 30% of \$4b pesticide market
- Indian government considering toughening penalties
- Fakes cutting food output by 10m tones annually
- According to a government-endorsed survey, India's fake pesticide industry is expanding at 20 per cent per year while the overall market is growing at 12 per cent per year.
- Officials said the use of fake pesticides had exacerbated losses from an attack of whitefly in northern India's genetically modified cotton crop.
- If unchecked, they said it could impact on the country's roughly \$36 billion in annual farm exports.
- The fakes - made secretly and sometimes given names resembling genuine brands - account for up to 30 per cent of the \$5.5 billion pesticide market, the government study said.

[Link between neonics and butterfly declines - FarmingOnline](#)

[Global warming may affect pesticide effectiveness - Phys.Org](#)

[It's all bug spray in the end: Organic pesticides not necessarily safer for bees - Genetic Literacy Project](#)

[Neonics: Butterflies could also be affected by pesticide, says study - Independent](#)

[How will the weather affect Europe's ability to grow wheat? - FGInsight](#)

[Future wheat cultivation will be limited by adverse weather in Europe - BBSRC](#)

Neonicotinoids Blamed For Drop In Butterfly Population:Pesticide Also Harms Small Tortoiseshell - Tech Times

Studies Add to Mounting Evidence of Neonic Dangers - Beyond Pesticides

Rising temperatures may affect pesticide effectiveness - Zee News

Don't kill our bees! Immediately halt the use of Neonicotinoids on crops - ParliamentUK

Global warming may affect pesticide effectiveness - Science Codex

Bees aren't the be all and end all for crop pollination - Science Daily

- [Water pollution testing outdated - FarmingOnline](#)

[Potatoes: Irrigation Method Saves 50% of Water needed for growth - Science Daily](#)

[NFU concerns over planned new 'basic rules' to help tackle diffuse pollution in farming - FarmingUK](#)

[Waters are more polluted than tests say - EurekAlert](#)

[Drought-hit India's quest for water hampered by thirsty crops - Reuters](#)

HAGA CLIC

[El Niño rains triggers more soy fungus in Brazil - Reuters](#)

[Waters are more polluted than tests claim, new findings say - FarmingUK](#)

[High concentration of CO2 protects sorghum against drought and improves seeds – SeedQuest](#)

Children who live in agricultural areas have lower lung capacities due to pesticide exposure, a new study has claimed.

- Researchers at the University of Berkeley, in the US, tested 279 children living in California's Salinas Valley and found that levels of organophosphate pesticide in their urine was linked to decreased lung function. This would equate to eight per cent less air when blowing out a candle, and is similar to passive smoking.
- The study, published in the journal Thorax, is the first to link chronic, low-level exposures to organophosphate pesticides to lung health for children.

More than one third of soils studied in southwest England are highly degraded

Overall, 38% of sites showed high or severe degradation with signs of erosion and runoff, 50% displayed moderate damage, and only 10% had low levels of damage. Cultivated sites posed a large problem, with 55% having high or severe damage, while less than 10% of permanent grass sites had high or severe damage.

New study reveals that eating dark green vegetables can change the genes of cancer patients and prevent tumor growth, reports the International Business Times, Australia.

- Scientists found that green vegetables contain a compound called **sulforaphane**, which can fight cancer, including those already present in tumors, the paper said.

- The new study, published in the journal Clinical Epigenetics, found that **sulforaphane** in fresh vegetables also has the potential to boost the effects of existing anti-cancer drugs.
- Highest concentrations of sulforaphane can be found in young sprouts of broccoli, but it is also present in Brussels sprouts, kale, cauliflower and cabbage, the report said.
- Besides fresh green vegetables, sulforaphane is also available in the dietary supplement broccoli sprout extract (BSE), it added.

- The findings come from the analysis of the cruciferous vegetable-eating habits of 28 adults, aged 50 and over, who were already undergoing routine colonoscopies.
- Researchers from the Texas A&M Health Science Centre found that the adults who took more dark green vegetables had higher levels of expression of a tumor suppressor gene, called p16, compared with those who ate few or no cruciferous vegetables.

- Researchers were surprised that the effects of **sulforaphane** to increase the levels of p16 persisted even though the participants didn't eat vegetables every day. Earlier research showed that suloraphane lasts in the body for less than 24 hours after consumption, the report said.



**"en el campo colombiano falta todo por hacer.
Esta zona sigue en un atraso enorme en
comparación con el resto del país".
Presidente de Colombia , 2015**



CIEV-ADN

Centro de Investigación de Extractos Vegetales

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Rionegro -Antioquia Colombia

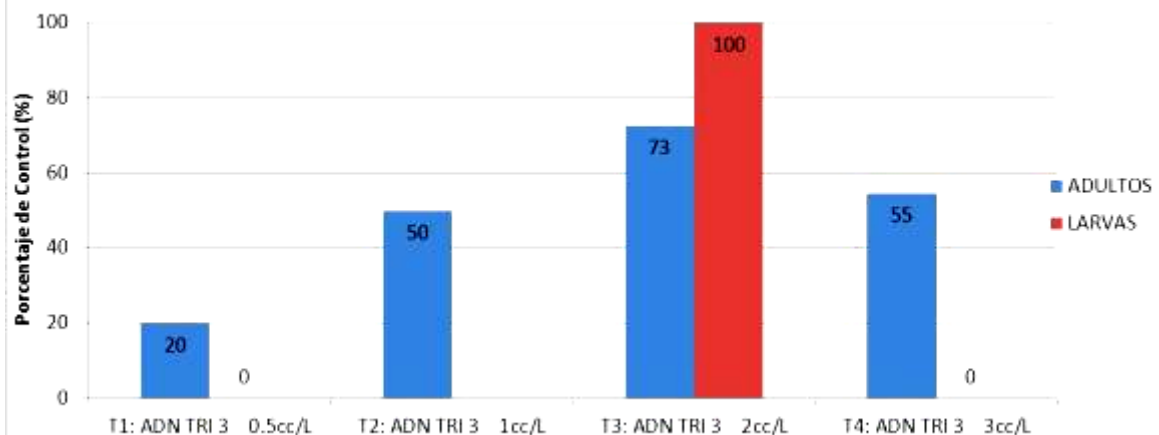
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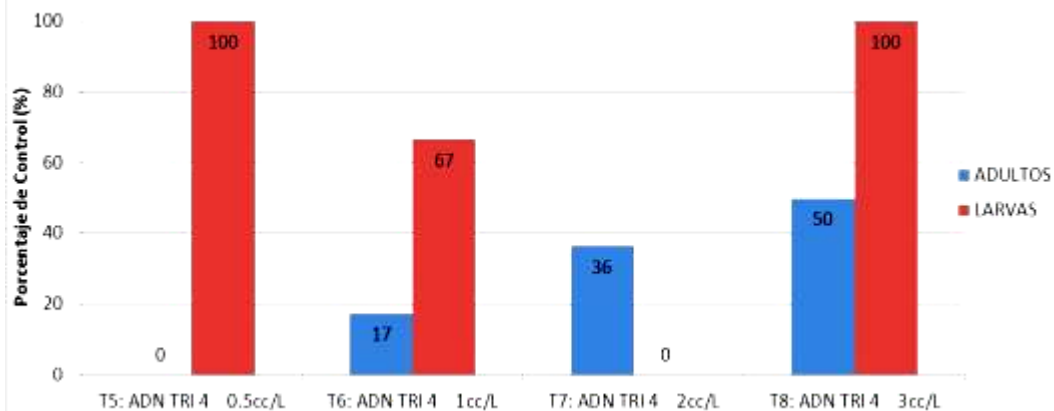
INVESTIGAMOS LA FUERZA DE LA NATURALEZA

CIEV-ADN

Evaluación de diferentes códigos para el control de Trips (*Frankliniella occidentalis*), en cultivo de Pompon, Rionegro, Antioquia.



Evaluación de diferentes códigos para el control de Trips (*Frankliniella occidentalis*), en cultivo de Rosa, Factativá, Cundinamarca.



ÁCAROS ADULTOS	Mortalidad (%)									
	Día Después de Aplicación (DDA)									
	1	2	3	4	5	6	7	8	9	10
ADNMILBE (1,5 cc/l) + A.M. (2,0 cc/l) en <u>agua destilada estéril</u>	36,0	36,0	44,0	48,0	52,0	57,1	62,5	66,7	70,8	79,2
ADNMILBE (1,5 cc/l) + A.M. (2,0 cc/l) en <u>agua de la finca</u>	48,0	48,0	54,0	57,0	60,0	63,3	66,7	70,8	75,0	83,3
ÁCAROS NINFAS	Mortalidad (%)									
	Día Después de Aplicación (DDA)									
	1	2	3	4	5	6	7	8	9	10
ADNMITE 1 (1,5 cc/l) en <u>agua de la FINCA</u>	52,0	58,0	61,0	64,0	68,8	71,3	72,6	73,9	78,3	82,6
ADNMITE 1 (1,5 cc/l) en <u>agua DESTILADA ESTÉRIL</u>	40,0	48,0	52,0	56,0	64,6	69,1	71,5	73,9	76,1	78,3



Les deseo a todos un año de paz en el mundo!!!



*Mmmm....
eso no va a andar....*



*Bue..... les deseo un año
de prosperidad para todos!!!*



Mmmm.....
eso tampoco va a andar.....



Está bien.....

les deseo un año lleno de amor!!!!!!!!!!!!!!!



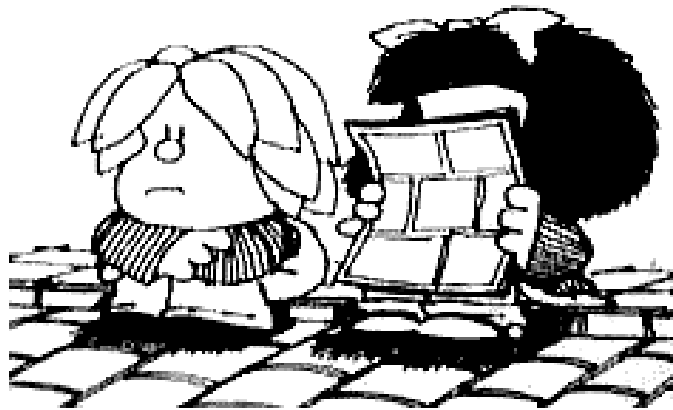
Ni locos..... eso no va a andar.....



??????????



Ya sé..... les deseo un año de justicia y equidad!!!!



*Mier....coles.....
parece que eso tampoco va a andar...*



Acá va.....

*les deseo a todos un año de éxitos
profesionales y recompensa por los esfuerzos!!!*



*Y cuándo viste que se recompensara
a alguien por los esfuerzos?????*



Aghhhhhhhh.....



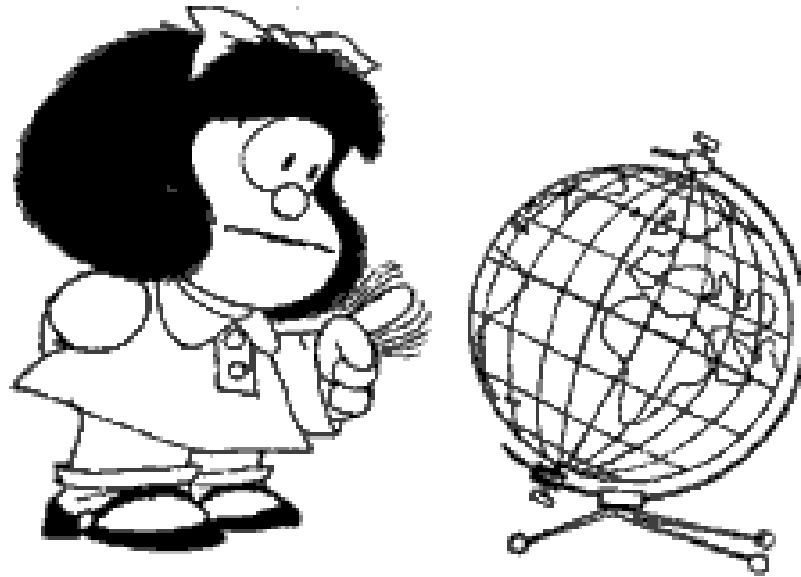
*Bueno..... les deseo un año en el que
se cumplan todos sus deseos!*



Pero..... a la gente se le cumplen pocas veces los deseos.....



**Basta!! Les deseo a todos un mundo mejor
en el que se cumplan las utopías!!!!!!!!!!!!!!**



Vos.....

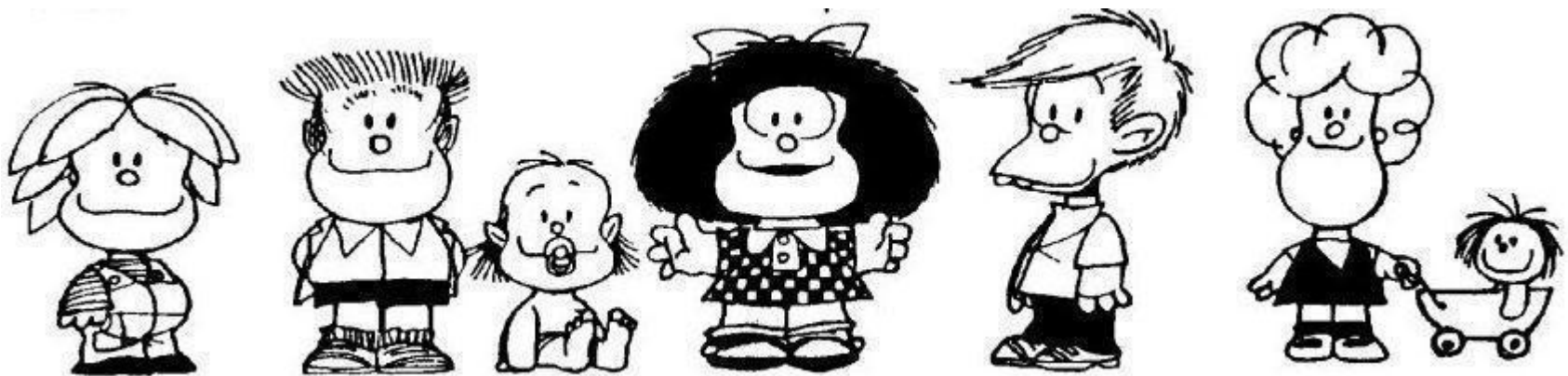
ni la menor intención de ser mejor, no?????



*Qué Vaina.....
Así se daña... el brindis de fin de
año.....*

BASTA!





Les deseamos a todas las buenas personas que conocemos que el próximo año tengan toda la fuerza y den lo mejor de sí mismos sin importarles que les recompensen sus esfuerzos para trabajar por un mundo mejor, en el que la paz sea posible, con justicia y equidad y en el que sobrevivan las utopías aunque parezcan (y sean) imposibles.

*Porque trabajar para construir un mundo
mejor es la felicidad más posible:
Feliz Año Nuevo de TRABAJO para todos!*



FIESTAS

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VERDE



FELICES

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