



FRUIT

PROCESSING

digital

www.fruit-processing.com

Events
Market Price Report
Quality Control
Reliable Services
Science & Research
Trends

AUGUST
8/2024

INTERNATIONAL JOURNAL FOR THE FRUIT PROCESSING, JUICE AND SOFT DRINKS PRODUCING INDUSTRY



**PROGNOSFRUIT 2024:
Apple and pear crop forecast released**

EVENTS

PROGNOSFRUIT 2024

Apple and pear crop forecast released 258



The Prognosfruit Conference is Europe’s leading annual event for the apple and pear sector, gathering apple and pear experts from across Europe and beyond. Prognosfruit 2024 took place in Budapest, Hungary. During the conference, WAPA (World Apple and Pear Association) released its forecast for the upcoming season of 2024/2025. The current forecast for apples is set at 10,2 million t, 11,3 % lower than last year. The pear crop shows a slight recovery from 2023, increasing by 4,9 % to 1,79 million t ...

TRENDS

**Generation Z trends and beyond:
global consumer overview 262**

The food and beverage industry is constantly evolving, driven by a complex interplay of factors like technology, sustainability, and individual preferences. But one of the most significant influences on consumer behaviour is generational splits. From financial concerns to health priorities, and the growing importance of sustainability, here Innova Market Insights unveil the key drivers behind each generation’s place in the market. It will also explore how these differences translate into specific product preferences, and overall consumption patterns ...

GENERATION Z TRENDS

- Financial Constraints are a Major Concern for All Generations
- Gen Z Prefer Taste and Discovery, while Boomers Prefer Nutrition and Realness
- Health and Wellness are Top Priorities for All Generations
- Younger Generations are More Optimistic About the Future

QUALITY CONTROL

Qual-IS™: the intelligent aseptic quality supervisor 264



Sidel’s Qual-IS™ is an integrated partner able to drive all aspects of quality control and food safety across aseptic production. Qual-IS™ is the unique solution by Sidel to merge all activities related to quality control – laboratory, traceability, and sampling – in a digitally, intelligent and integrated way. It is a pioneering approach to quality management, focusing on driving quality rather than simply monitoring it ...

RELIABLE SERVICES

3D line design by KHS: new features for even greater planning security 266

More precise planning, easier handling and a quicker result: the KHS Group is expanding its virtual 3D line design software. Various new features allow customers to gain a holistic impression of their potential system as early as during the offer phase. Possible sources of error reduced to a minimum and results reached in real time: during the course of a single meeting, users can see how their future line can be integrated into their production environment ...



SCIENCE & RESEARCH

Combined metabolomics and network pharmacology analysis reveal the effect of rootstocks on anthocyanins, lipids, and potential pharmacological ingredients of Tarocco blood orange 268



As a result of their healthy qualities, blood oranges (*Citrus sinensis* L. Osbeck) are becoming more popular. Citrus, including blood orange, is a natural source of many antioxidants and bioactive substances, rich not only in primary metabolites, but also in valuable secondary metabolites. Notably, citrus fruits contain a large number of phenolic acids such as ferulic acid, p-coumaric acid, sinapic acid, caffeic acid, and sinapic acid, which possess robust antioxidant activity. They also contribute to the formation of the fruit's

colour, bitterness, astringency, antioxidant activity, and flavour. Therefore, phenolic compounds play an important role in the organoleptic quality of citrus. Similarly, in addition to their beneficial health properties, flavonoids are natural compounds. These compounds exhibit several biological properties, including antioxidant and anticancer effects. Flavonoids are one of several possible cancer prevention agents. Hesperidin and diosmin have been documented to exhibit a wide range of pharmacological properties, including anti-inflammatory, anticarcinogenic, and hypolipidemic activities. For quercitrin, genistein (genistin), and isoscapoletin, there are similar research reports indicating their activity. Anthocyanins are the most common pigment compounds, and belong to a large group of phenolic secondary metabolites known as flavonoids, which contribute to the distinctive red colour of blood oranges, and are also ...

REGULAR SECTIONS

Editorial 255
Business Contacts 258
Business News 277
New Product Launches 282
Market Price Report. 284
Imprint 287

