Knowledge Economy Foundation
مؤسسة اقتصاد المعرفة

بشاير
Bashaier

Pesticide Residue Limits (MRL) Service

MRL Tracker

Trusted Information for Safe Exports and Sustainable Agriculture



Check Limits | By Crop & Market | Stay Compliant | Grow Your Exports

The MRL service is part of the Green Agriculture Business Program

50%

Growth potential of Egyptian fruit and vegetable exports to Europe, and 60% worldwide, with strict compliance with plant-health standards and residue limits.

EBRD and FAO study, as cited in the program document, September 2026.

MRL Tracker

This presentation

Pesticide residue limits for each crop and market, built on the Bashaier pesticide guide.

Farm coding for export

Training smallholders to code their farms with Plant Quarantine and the central lab.

Carbon credit market

Carbon footprint certificates for smallholders with EBDA / Sekem.

In cooperation with

- Knowledge Economy Foundation
- Plant Quarantine CAPQ
- Central lab QCAP
- Agricultural Export Council
- EBDA / Sekem

One substance over its limit is enough to reject an export shipment

381

Each product has its own limit

The EU sets limits for 381 food products. Oranges, lemons and mandarins each have their own limit for the same substance.

0.01*

Limits at the lowest measurable level

The * marks the lab quantification limit: any measurable trace of the substance is a breach.

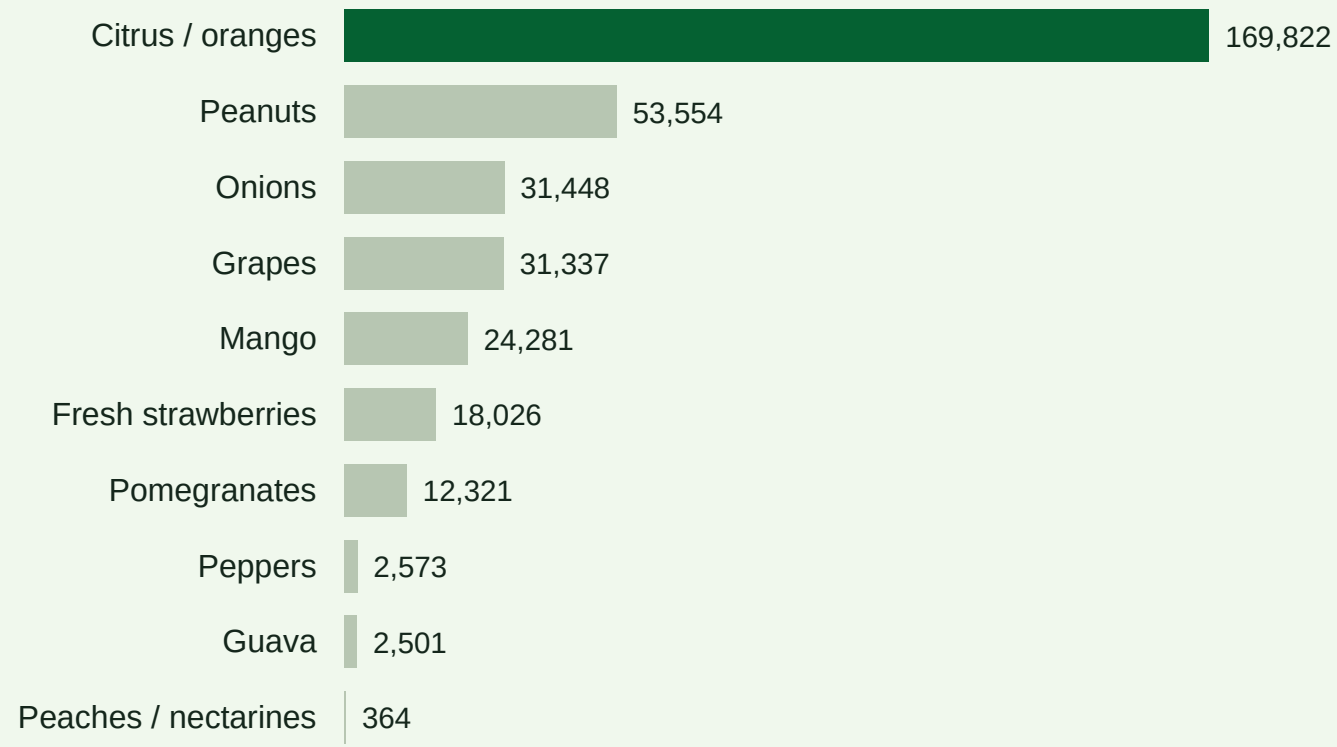
4

Limits change with new regulations

4 limits on oranges have changed value since January 2025, including one substance used in Bashaier’s citrus programme.

Citrus first: the largest area among crops coded for export

Feddans coded for export, by crop



169,822

feddans of citrus coded for export, more than three times the next crop

2,491

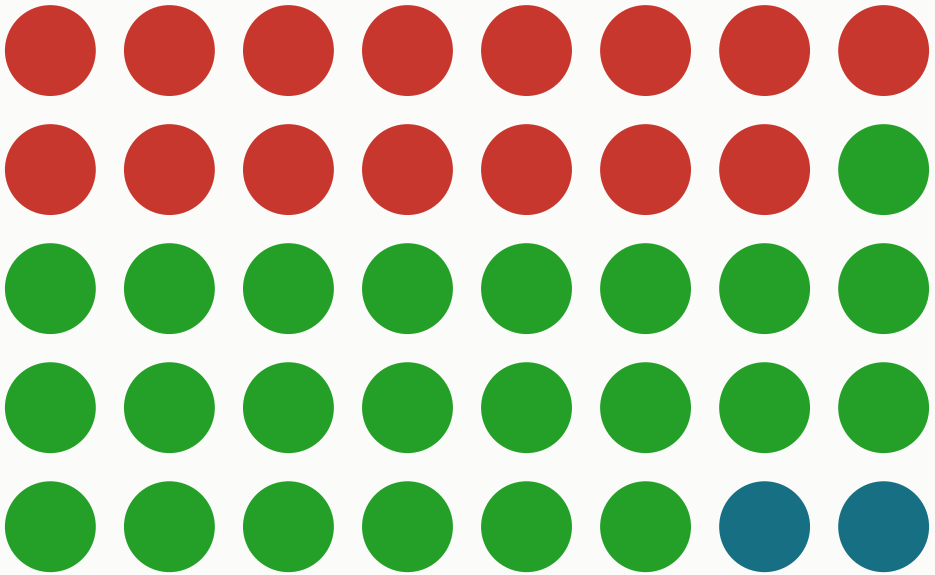
citrus farms coded for export

9,000+

farms coded for export across all crops: the users the service targets

Source: Central Administration of Plant Quarantine, farms coded by the end of 2025, as cited in the Green Agriculture program document.

15 of the 40 substances in the citrus programme sit at the quantification limit on oranges



Each dot is an active substance in Bashaier’s citrus pest programme

15 Default limit — export risk

23 Limit set

2 No MRL required

The 15 substances: Thiamethoxam, Buprofezin, Phosmet, Dimethoate, Chlorfenapyr, Fenbutatin oxide, Fenamiphos, Cadusafos, Oxamyl, Fosthiazate, Propiconazole, Pyraflufen-ethyl, Fluazifop-P-butyl, Quizalofop-P-ethyl, Oxadiazon

Source: official EU Pesticides Database, oranges 0110020, and the Bashaier pesticide guide: 125 products registered for citrus against 18 pests.

Example: the thiamethoxam limit on oranges fell fifteen-fold in March 2026

~~0.15~~ → **0.01***

mg/kg

Applies from 7 March 2026 under Reg. (EU) 2023/334.

Registered on Bashaier for citrus in two products: Actara 25% WG with a 40-day pre-harvest interval, and Fabyan 25% WG with 7 days.

The pre-harvest interval alone is not enough at the quantification limit, and the service shows this before spraying.



Substance details in the service: limit in force, history, affected products

The service: from choosing a crop to the spraying decision in five steps

1

Choose the crop

From Bashaier’s crops, such as citrus.

2

Choose the product

In the EU classification: oranges, lemons, mandarins.

3

Choose the market

The European Union now, other markets later.

4

Review each substance

The limit and its status for every active substance, with PHI and dose.

5

Export and contact

Export results to Excel and request the product.

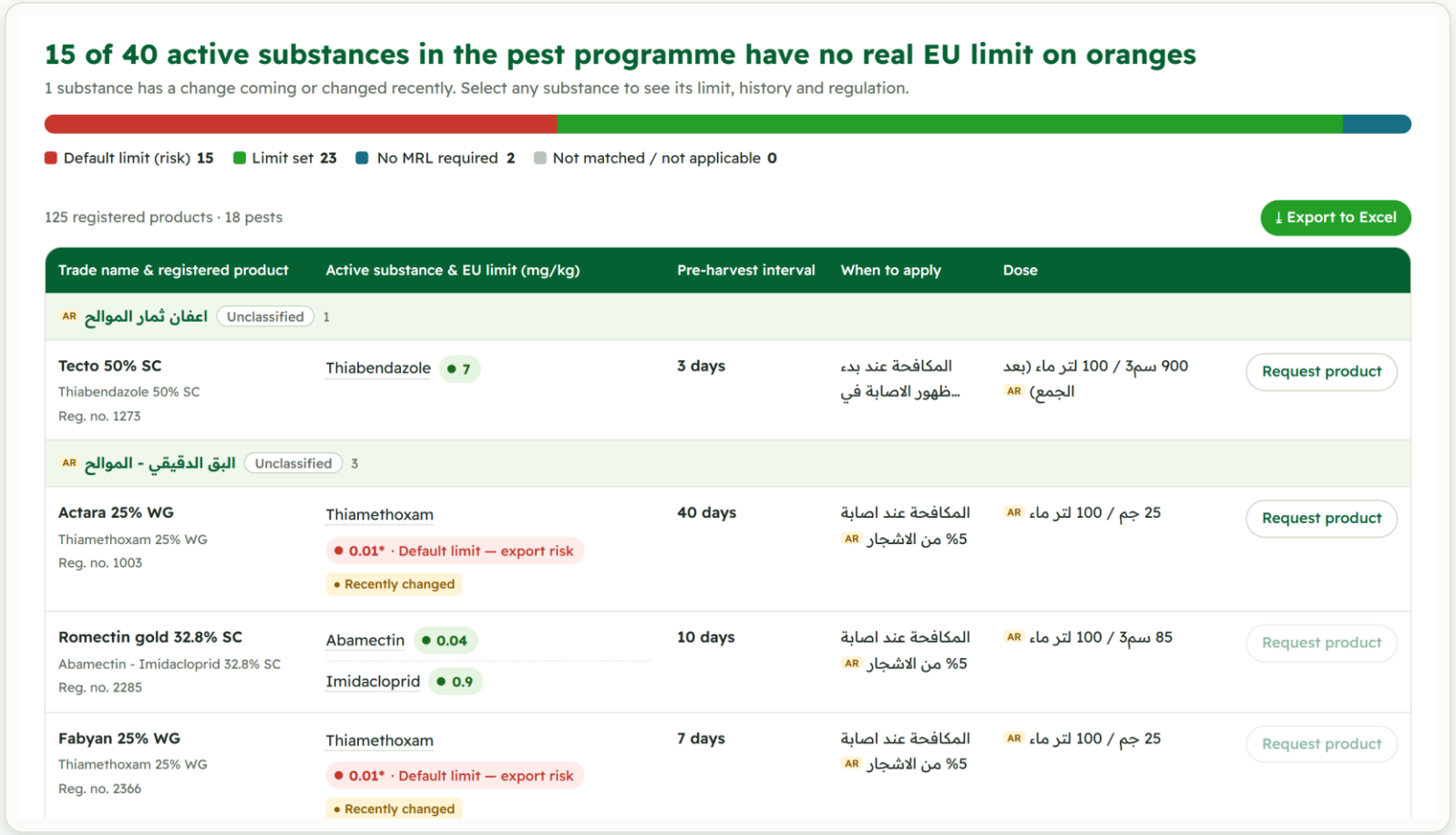
Guidance for each crop

Written and approved by the Bashaier team in the admin panel, shown above the results.

Arabic and English

The interface, the results and the Excel file in both languages.

The result: every registered product with its substance’s limit and status



15 of 40 active substances in the pest programme have no real EU limit on oranges

1 substance has a change coming or changed recently. Select any substance to see its limit, history and regulation.

Default limit (risk) **15** · Limit set **23** · No MRL required **2** · Not matched / not applicable **0**

125 registered products · 18 pests

⤓ Export to Excel

Trade name & registered product	Active substance & EU limit (mg/kg)	Pre-harvest interval	When to apply	Dose	
AR اعفان ثمار الموالح — Unclassified 1					
Tecto 50% SC Thiabendazole 50% SC Reg. no. 1273	Thiabendazole ● 7	3 days	المكافحة عند بدء ظهور الاصابة في…	900 سم3 / 100 لتر ماء (بعد الجمع) AR	Request product
AR البق الدقيقي - الموالح — Unclassified 3					
Actara 25% WG Thiamethoxam 25% WG Reg. no. 1003	Thiamethoxam ● 0.01* · Default limit — export risk • Recently changed	40 days	المكافحة عند اصابة AR 5% من الاشجار	25 جم / 100 لتر ماء AR	Request product
Romectin gold 32.8% SC Abamectin - Imidacloprid 32.8% SC Reg. no. 2285	Abamectin ● 0.04 Imidacloprid ● 0.9	10 days	المكافحة عند اصابة AR 5% من الاشجار	85 سم3 / 100 لتر ماء AR	Request product
Fabyan 25% WG Thiamethoxam 25% WG Reg. no. 2366	Thiamethoxam ● 0.01* · Default limit — export risk • Recently changed	7 days	المكافحة عند اصابة AR 5% من الاشجار	25 جم / 100 لتر ماء AR	Request product

Default limit — export risk

A limit of 0.01* or lower: any trace is a breach.

Limit set

A real value above the quantification limit.

No MRL required

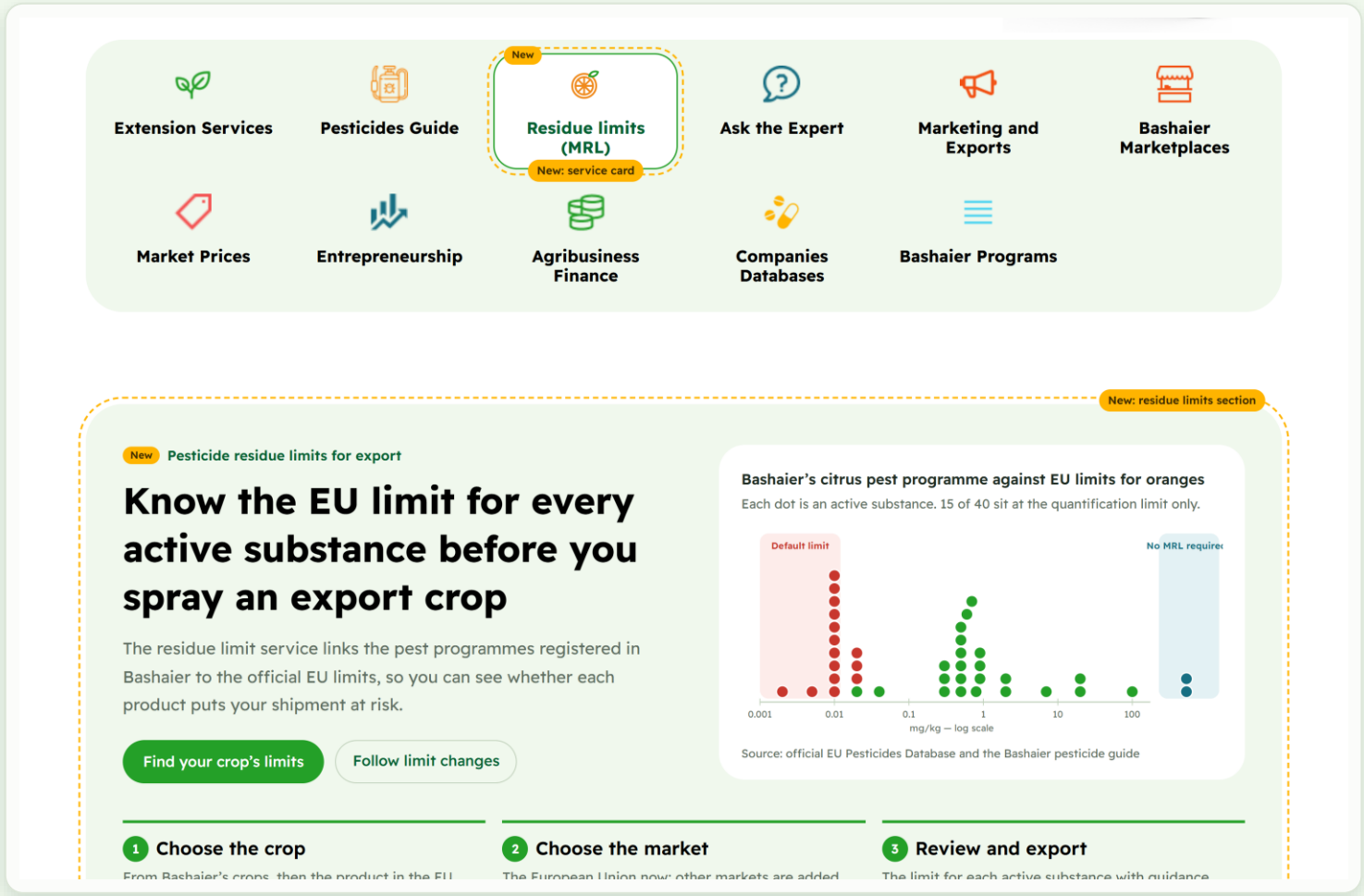
A substance listed in Annex IV.

The summary above the table answers the first question: how many substances in the programme are an export risk?

Platform components in the program document, and what the system covers now

Component in the program document	What the system provides	Status
Central MRL database	Official EU limits for oranges with their history and draft measures	**In the system**
Decision support engine	The status of every substance in the pest programme and a summary of export risks	**In the system**
Access to approved suppliers	A request-product button in the results table	**In the system**
Smart extension per crop with PHI monitoring	Crop guidance from the admin panel and each product's PHI, without tracking spray dates	**Partly**
Early warning with notifications and SMS	The alerts page and crop following; SMS is not designed yet	**Preview — stage two**
Tracking and a "Green Agriculture" farm record — optional	Not in the system	**Outside the current scope**

On Bashaier: a card in the services strip and a new homepage section



- **The current homepage stays as it is**

  We add the service card and one introductory section only.

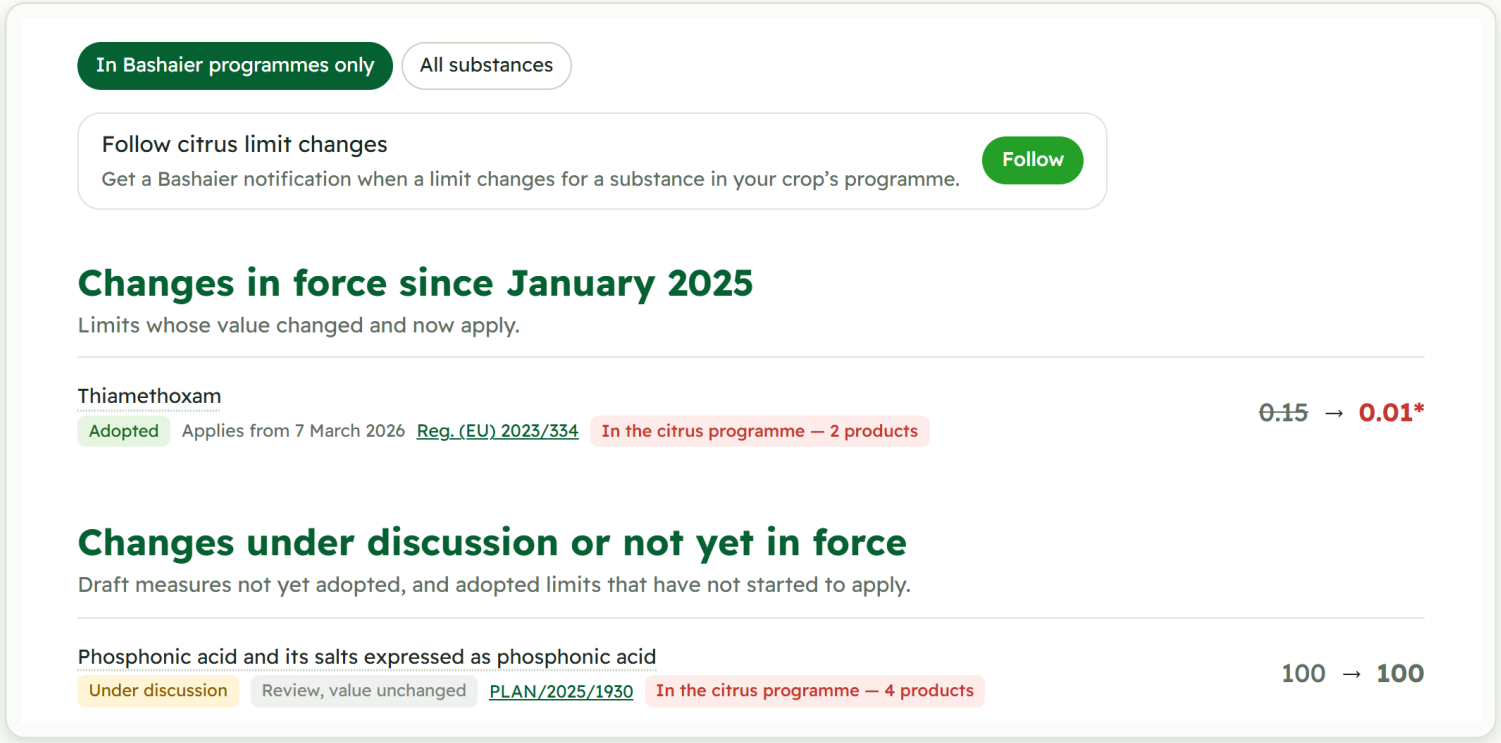
- **A chart built from real data**

  The section plots the citrus programme's substances against EU limits.

- **A clear path for users**

  One button to find a crop's limits, another to follow changes.

Alerts in stage two: knowing about a change before it applies



- **Changes in force and under discussion**

  From adopted EU regulations and draft measures.

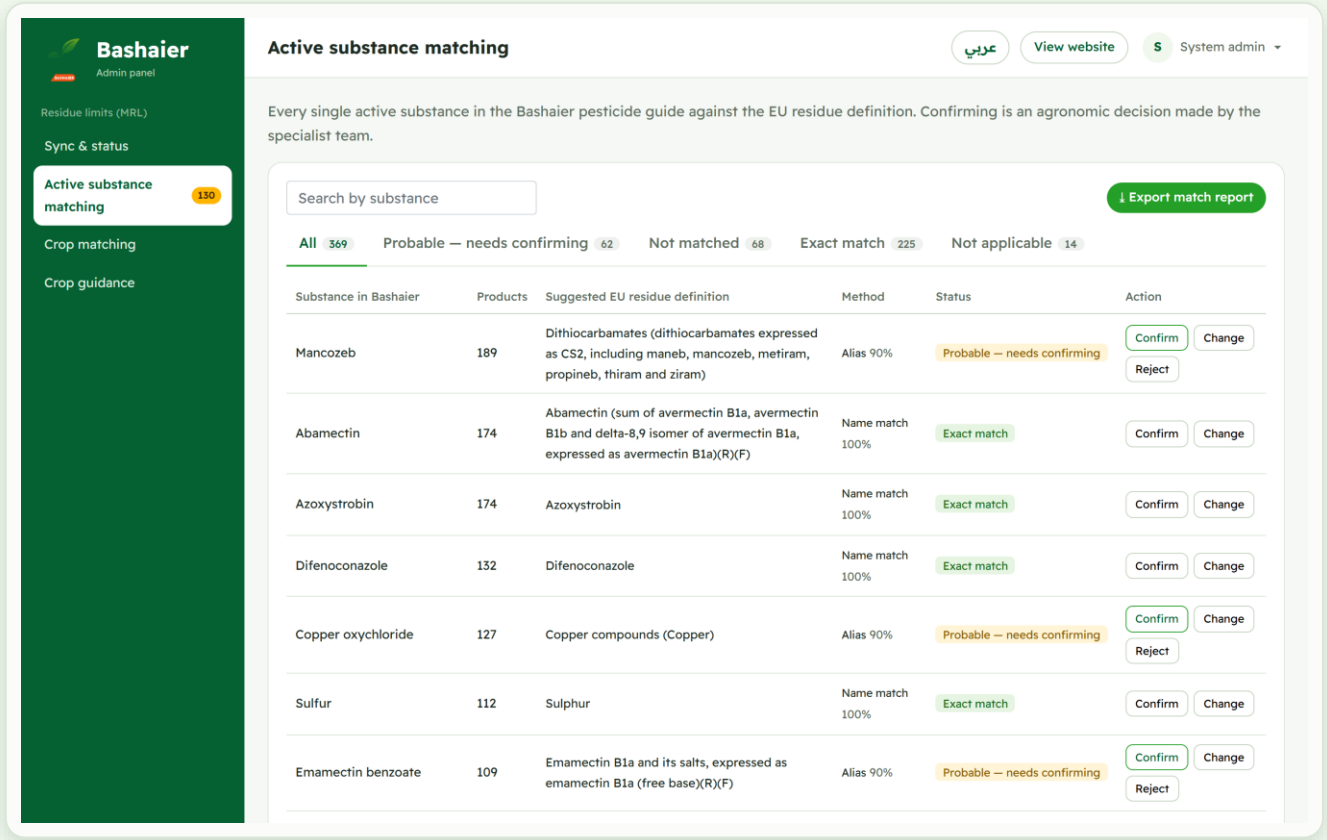
- **Focused on Bashaier's programmes**

  Highlights substances used in pest programmes and how many products each change affects.

- **Follow a crop**

  A Bashaier notification when a limit changes for a substance in the crop's programme.

Matching: each Bashaier substance linked to its EU definition, approved by your team



369 single active substances in the Bashaier guide after splitting mixtures

225

Exact matches

62

Probable, need confirmation

68

Not matched, mostly not on the EU list

14

Not applicable, such as pheromones and rodenticides

Confirmation is an agronomic decision your team approves; the tool prepares the suggestions and the match report.

Two separate sources: official EU limits and Bashaier’s pest programmes

EU Pesticides Database

DG SANTE — the official source

381 food products

733 residue definitions

1,279 limit records for oranges alone, with history and draft measures

Matching

Bashaier pesticide guide

Pesticide Guide app since 2019, with the Agricultural Pesticides Committee

4,283 registered products

369 single active substances

125 products in the citrus programme for 18 pests

EU data is imported and kept current by sync; Bashaier’s crops, pests and products stay as they are.

KEF | KNOWLEDGE ECONOMY FOUNDATION

Driving Innovation Across Egypt's Agrifood Value Chains

An Egyptian NGO established in 2012, Knowledge Economy Foundation pioneered in 2015 with "Bashaier", the first digital agriculture programme in Egypt, through a grant supported by the EU–Egypt Innovation Fund.

OUR VISION & MISSION

A one-stop shop knowledge platform for the agrifood ecosystem—connecting technical, marketing, production and export stakeholders through integrated solutions tailored to the needs of the farming community.

WHAT WE DO

01

DIGITAL AGRICULTURE

Farmer-centred digital platforms, knowledge hubs, extension services and market linkages.

02

AGRICULTURAL PROGRAMMES

Initiatives such as EU-ZIRA3A, supporting sustainable agriculture, cooperatives and rural communities.

03

RESEARCH & VALUE CHAINS

Comprehensive sector studies, value-chain analysis and the design of value-chain financing programmes.

04

GLOBAL PARTNERSHIPS

EU-funded research consortia with European and African partners, through FS4Africa and LEAP4FNSSA projects.

Export Farm Coding & ”Green Agriculture Business” Program Training

Enabling exports growth through small farmers supply chains complying with the new MRL export regulations together with export coding and carbon credit certification. Building smallholder farmers’ capacity to meet international requirements and access export markets.

01 | EXPORT FARM CODING

CAPQ certification

Farm coding certification issued by Egypt’s Central Administration of Plant Quarantine (CAPQ), under Ministerial Decree No. 386/2021.

Implemented in line with international traceability regulations and aligned with IPPC and relevant European requirements.

Certification costs vary by farm size, crop and target market.

02 | FARMER CAPACITY BUILDING

FFS-based practical training

Farmer Field School (FFS) methodology, delivered by experts from QCAP, the Central Laboratory for Residue Analysis of Pesticides and Heavy Metals in Food, and CAPQ / Plant Quarantine.

Training covers EU and international good agricultural practices, export compliance and the digital MRL Tracker tool.

03 | GREEN AGRICULTURE CURRICULUM

Key training modules

Export regulations, GLOBALG.A.P. principles, IPM, MRL requirements and potential income gains.

Soil management; seed, seedling and rootstock selection.

Irrigation efficiency and climate-smart agriculture.

Fertilisers and biofertilisers; integrated pest management.

Electronic farm logbook integrated with the MRL Tracker to record all farm operations.

TRAINING & FUNDING MODEL • Groups of 15 farmers | 3-day crop- and area-specific training units | Programme funding covers training and farm export-coding certification costs

Knowledge Economy Foundation

بشاير BASHAIER Agribusiness Platform

To Follow-up on social media sites

التسجيل على منصه بشاير

امسح الكود

Knowledge Economy Foundation / Bashaier
27 Hassan Assem St., Zamalek, Cairo, Egypt
T. + 202 27371997
Mobile: +20120 888 4862
Email: mail@Bashaier.net
website:www.bashaier.net / www.kef.com.eg

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Thank you