



# **CIMMYT report on activities in Central Asia and Caucasus**

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# CIMMYT

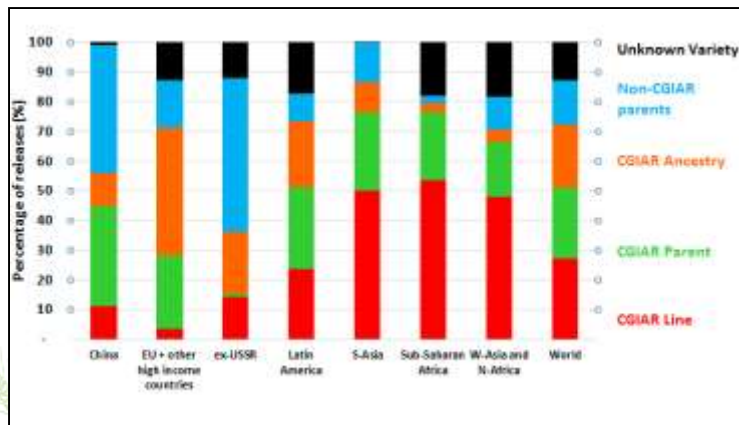
- CIMMYT is international non-profit non-government research organization with headquarters in Mexico and offices in 18 countries globally
- CIMMYT main goal is improvement of wheat and maize production through new varieties and technologies globally with emphasis on less developed countries
- CIMMYT celebrates 50 years Anniversary end of September, 2016



# CIMMYT

- Global Wheat Program
- Global Maize Program
- Conservation Agriculture
- Genetic Resources
- Socio-Economic Program
- US\$150 mln annual budget
  - USAID
  - CGIAR
  - Bill and Melinda Gates Foundation
  - Mexico
  - Australia
  - Russia
  - Kazakhstan

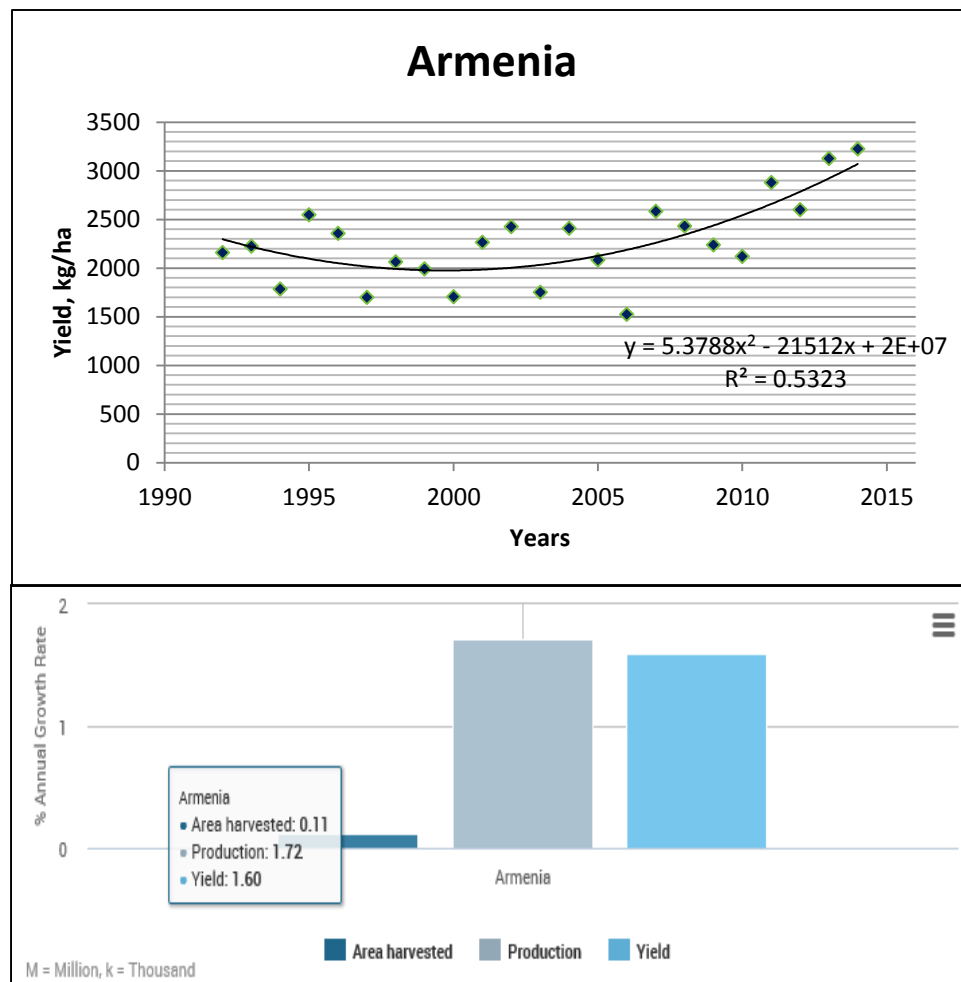
DG: Martin Kropff



GWP Director: Hans-Joachim Braun

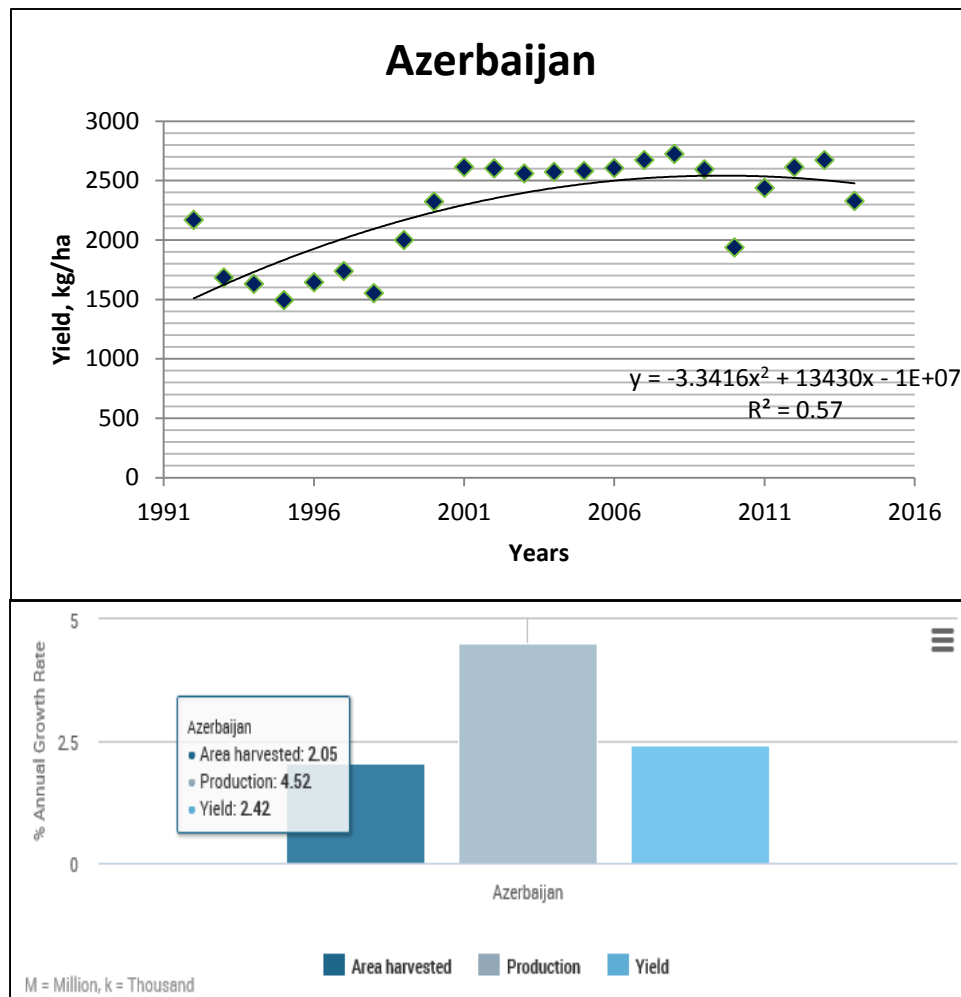
# Wheat yields and balance: Armenia

- 2014 (x 1000 t)
  - Production: 311 t
  - Export: 0
  - Import: 300
- Import as % of production
  - 96%



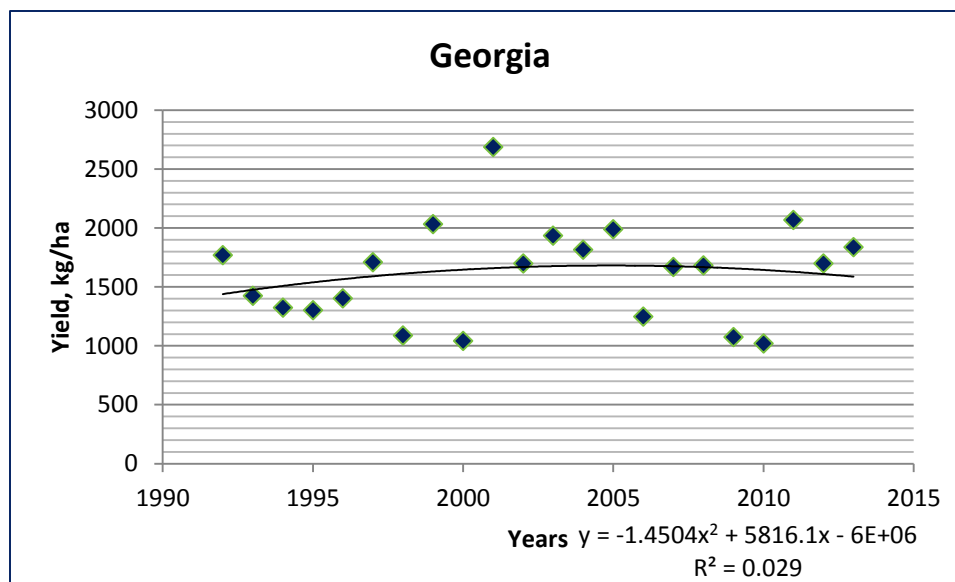
# Wheat yields and balance: Azerbaijan

- 2014 (x 1000 t)
  - Production: 1,841
  - Export: 5
  - Import: 1,450
- Import as % of production
  - 79%



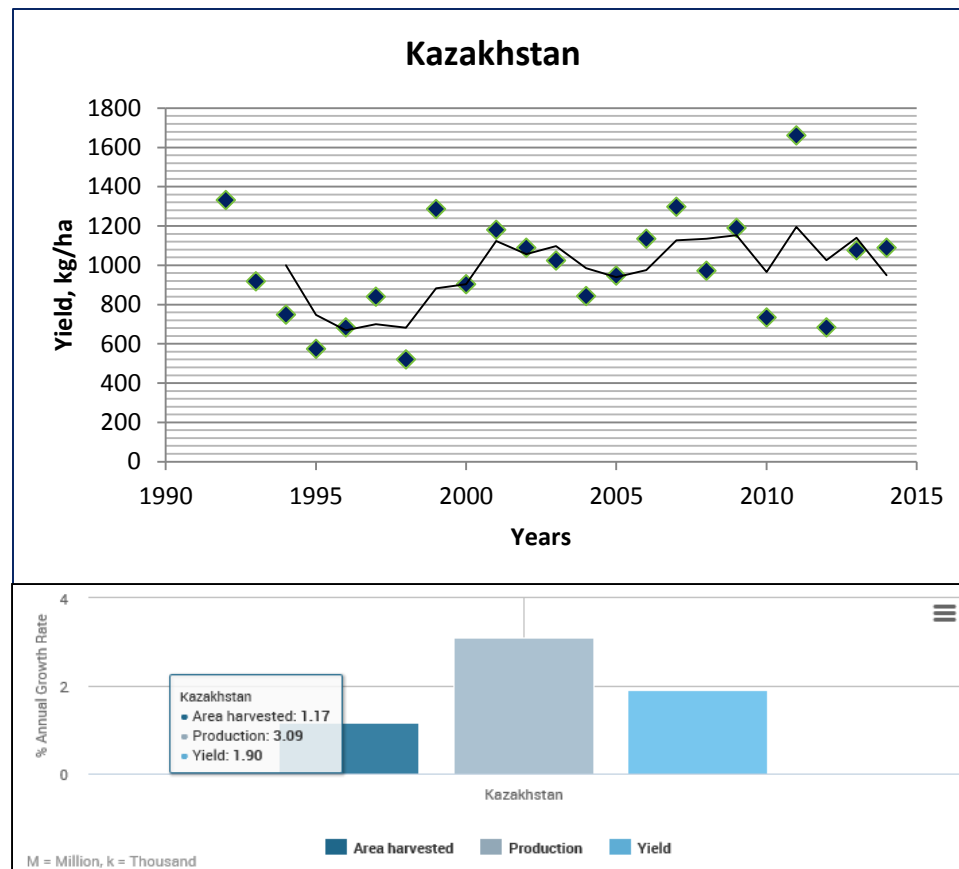
# Wheat yields and balance: Georgia

- 2014 (x 1000 t)
  - Production: 81
  - Export: 0
  - Import: 700
- Import as % of production
  - 864%



# Wheat yields and balance: Kazakhstan

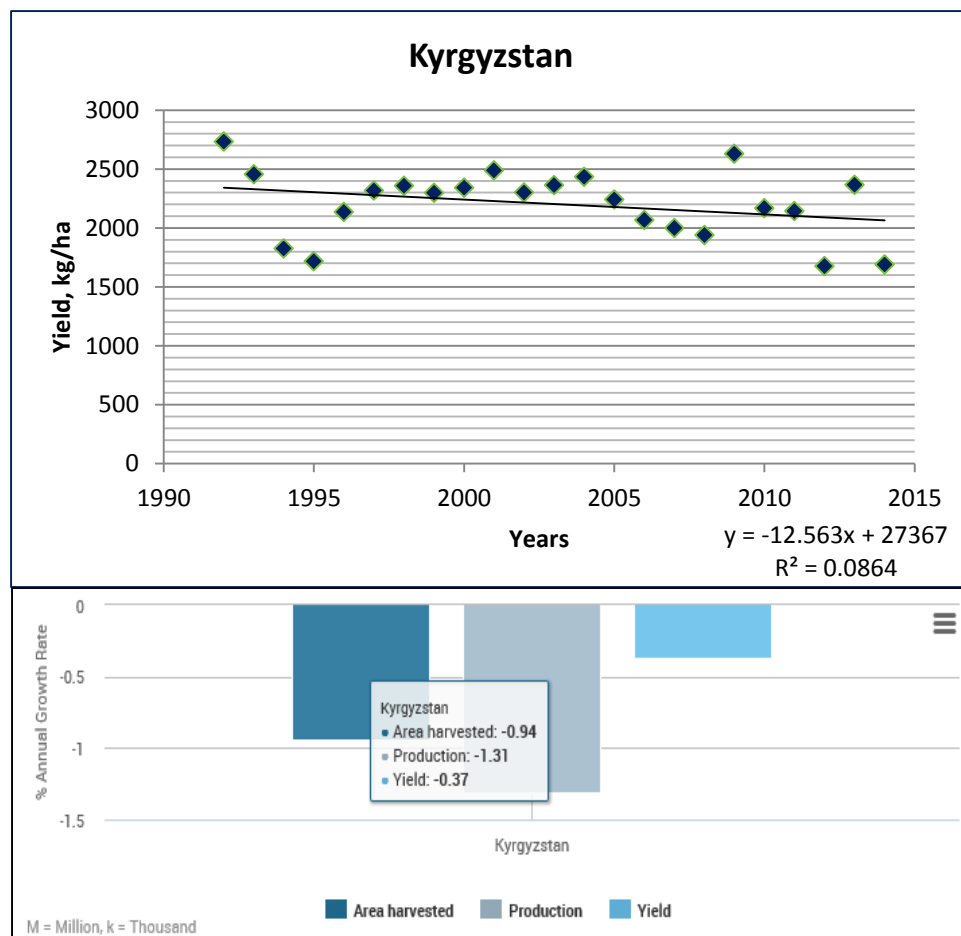
- 2014 (x 1000 t)
  - Production: 13,941
  - Export: 7,000
  - Import: 6
- Export as % of production
  - 50%





# Wheat yields and balance: Kyrgyzstan

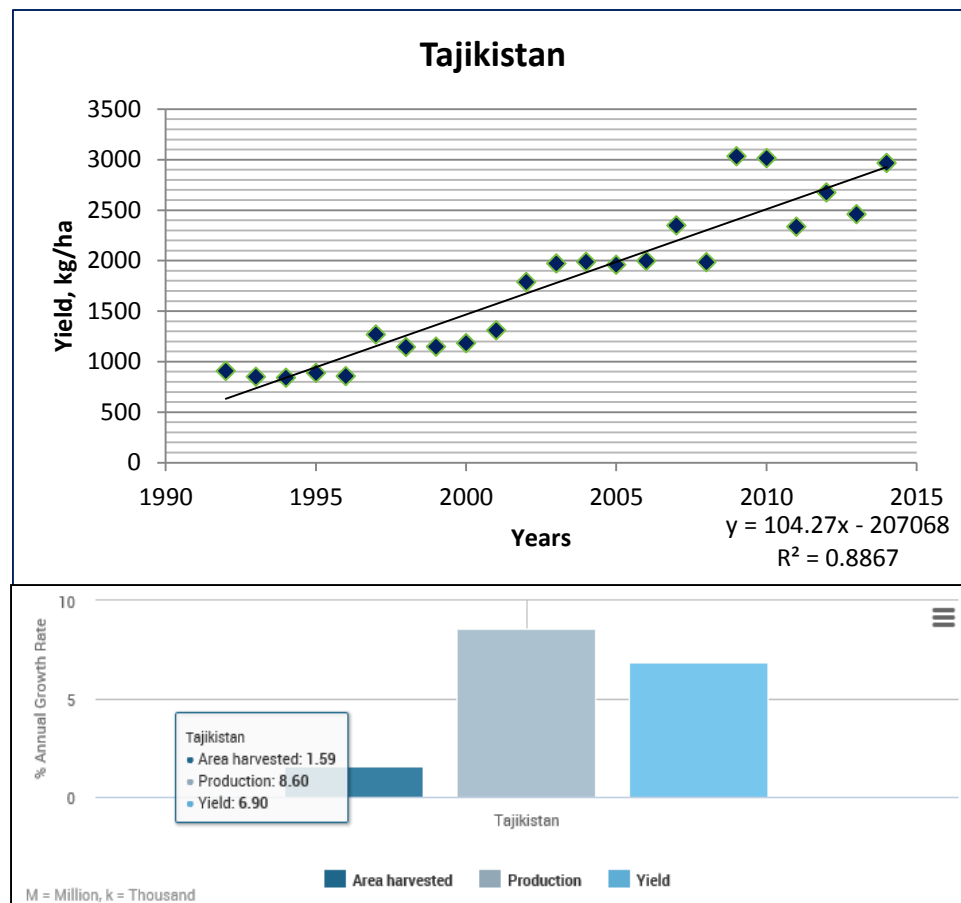
- 2014 (x 1000 t)
  - Production: 819
  - Export: 0
  - Import: 575
- Import as % of production
  - 62%





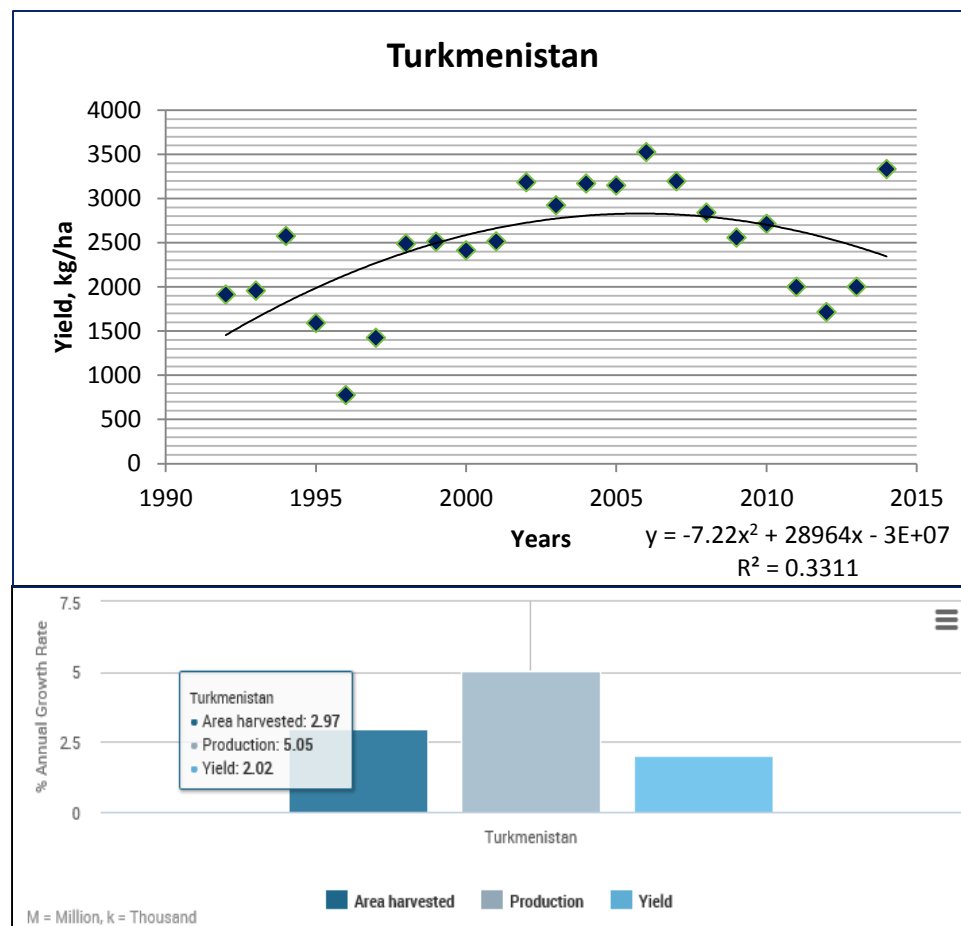
# Wheat yields and balance: Tajikistan

- 2014 (x 1000 t)
  - Production: 947
  - Export: 0
  - Import: 1,100
- Import as % of production
  - 116%



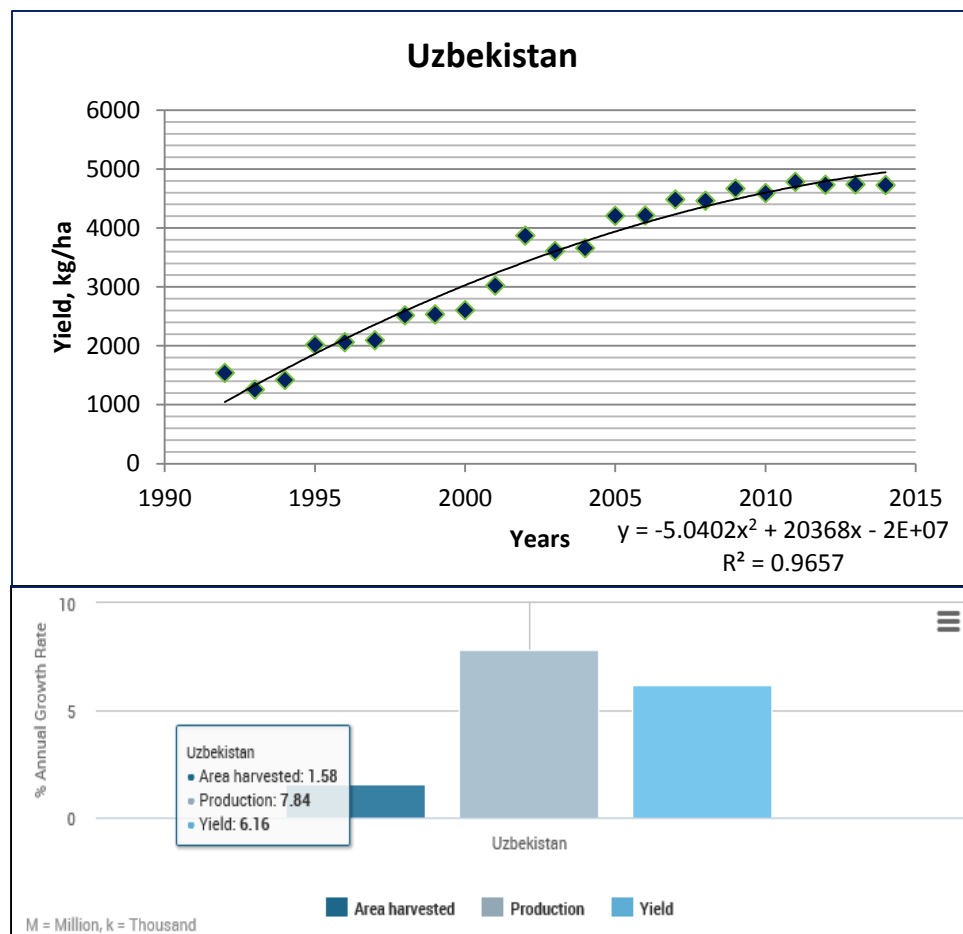
# Wheat production in Turkmenistan

- 2014 (x 1000 t)
  - Production: 1,370
  - Export: 0
  - Import: 110
- Import as % of production
  - 8%



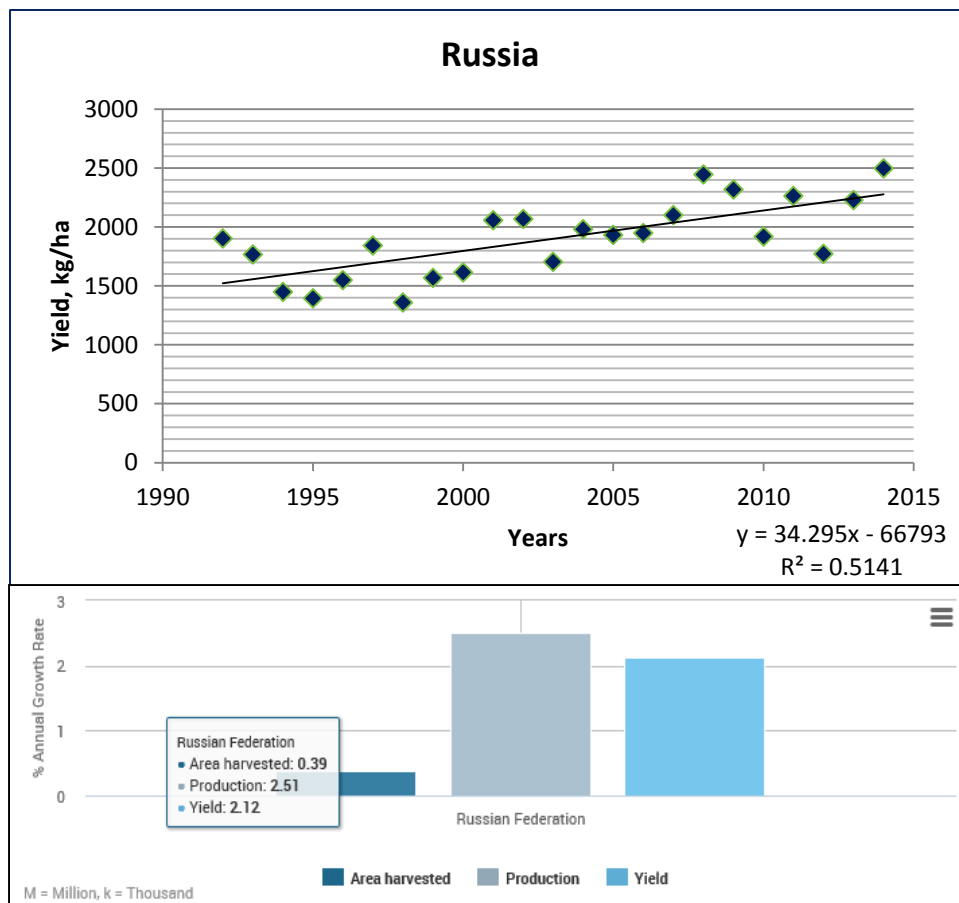
# Wheat yields and balance: Uzbekistan

- 2014 (x 1000 t)
  - Production: 6,842
  - Export: 200
  - Import: 2,500
- Import as % of production
  - 36%



# Wheat yields and balance: Russia

- 2014 (x 1000 t)
  - Production: 52,091
  - Export: 25,000
  - Import: 500
- Export as % of production
  - 48%



## Russia on course to become world's largest wheat exporter for first time

August 16, 2014 09:00 GMT+01:00, APN

Due to a large harvest, the country's export potential amounts to 30 million tons of wheat in the 2014/2015 agricultural year, which is an absolute record for the last five years. However, export growth is constrained by low prices on the world market and export duties imposed in 2014 for fear of price growth in the country.

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### RELATED

→ Russian and American wheat exports up 10 months quickly towards 100,000

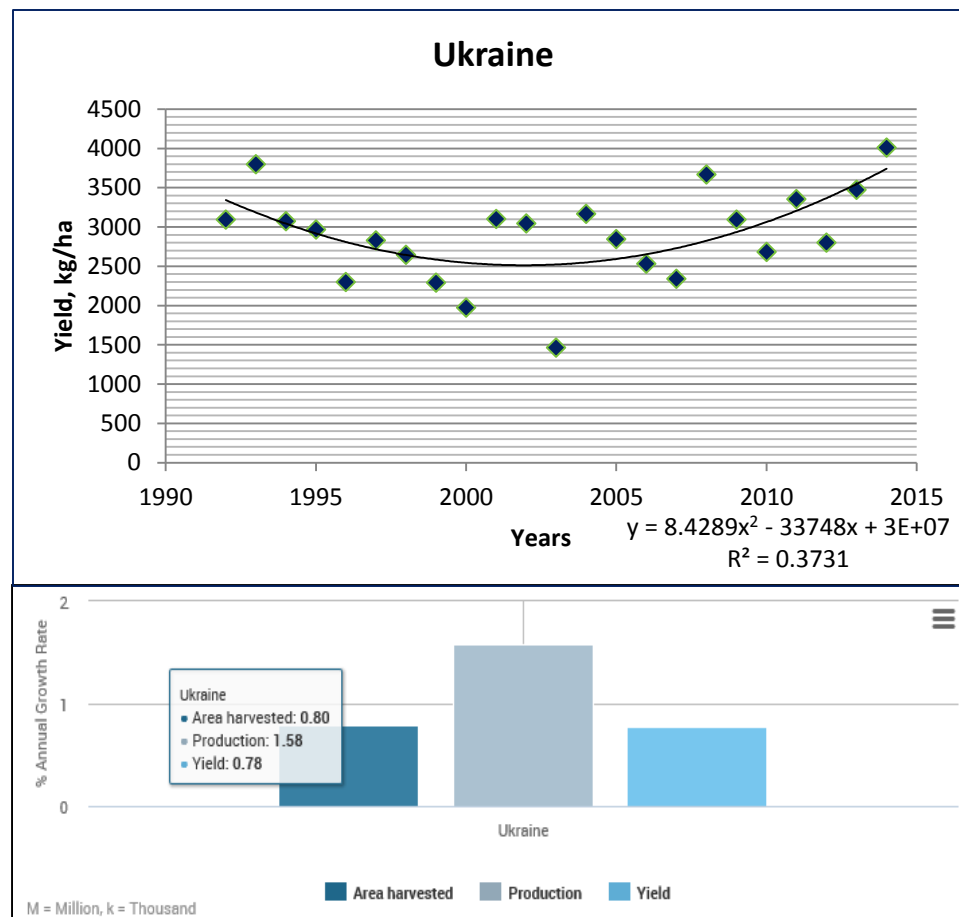
→ American Chamber of Commerce in Russia releases report on wheat exports

→ The Russian wheat market is closing down to attract Chinese



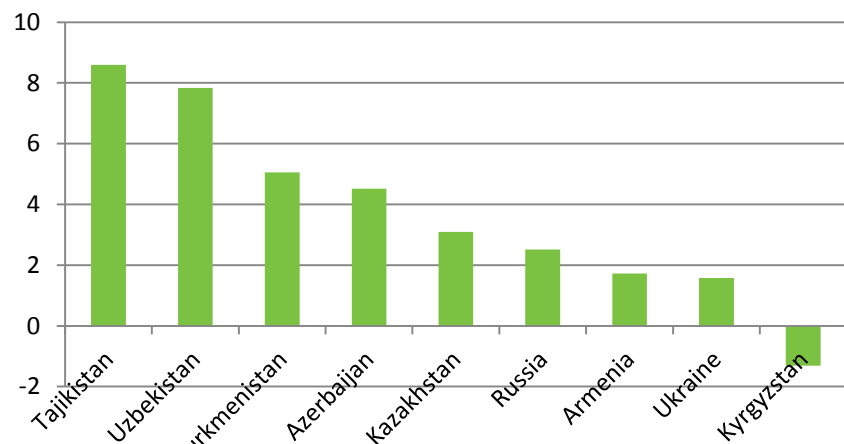
# Wheat yields and balance: Ukraine

- 2014 (x 1000 t)
  - Production: 22,279
  - Export: 11,500
  - Import: 0
- Export as % of production
  - 51%

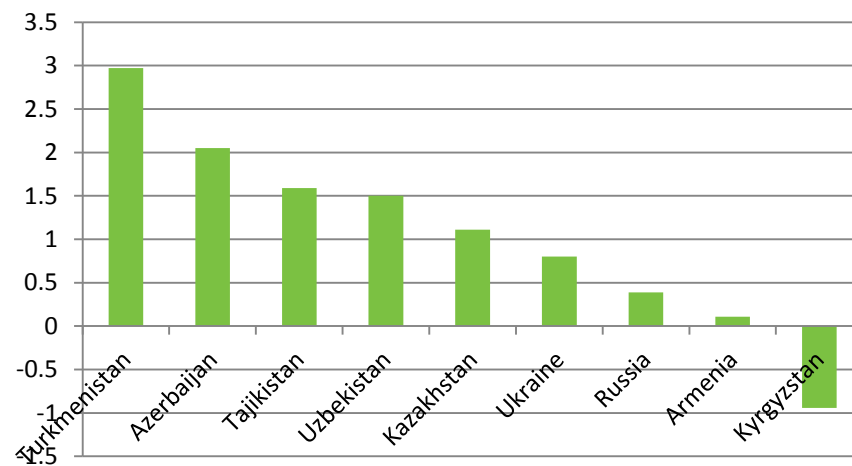


# Wheat production summary

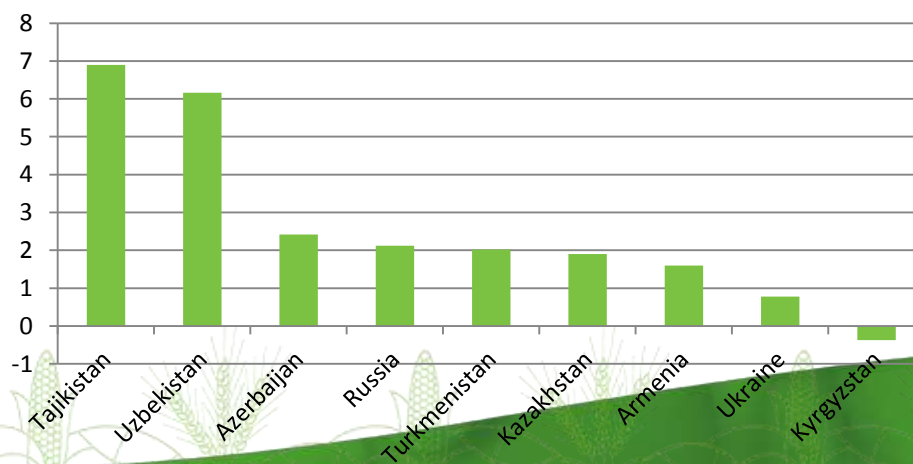
**Yearly production gain, %**



**Yearly area gain, %**



**Yearly yield gain, %**



# Challenges

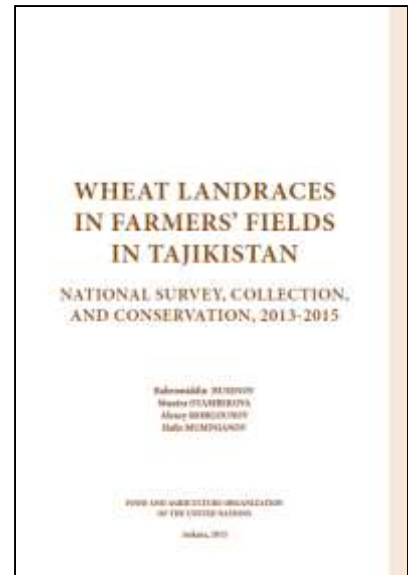
- Climate change: extremes and heat
- Diseases and pests
  - Stem rust affected the region in 2016
  - Yellow rust is a constant threat
- Lack of water for irrigation
- Capacity of the research system
- Extension and seed production





# CIMMYT strategy

- Close partnership with national wheat breeding and research programs involving Russian institutions
- The main emphasis is on wheat grain quality through new varieties and nitrogen application
- Delivery of wheat variety candidates in larger seed quantities
- Accelerating the genetic gains through faster breeding cycles and application of modern physiological and genomic tools
- Targeted utilization of wheat genetic resources:
  - Synthetic wheat (Azerbaijan, Kazakhstan)
  - Landraces (Tajikistan and Uzbekistan)
- Training of young scientists at CIMMYT-HQ in Mexico
- Integration of the region into global research community
  - International winter wheat travelling seminar in Krasnodar in May, 2017





## World Food Prize Winner Boosts Wheat Training at CIMMYT

KAREN WILLENBRECHT



### THE WORLD FOOD PRIZE

Two additional trainees — one from Afghanistan and one from Ethiopia — had the opportunity to participate in CIMMYT's Basic Wheat Improvement Course this year, thanks to the generous donation of US\$ 20,000 by Dr. Sanjaya Rajaram, former director of CIMMYT's Global Wheat Program (GWP) and winner of the 2014 World Food Prize.

"Training is something very close to my heart, and I would like to see more donors supporting this important function at CIMMYT," he said during a 3 July visit to CIMMYT headquarters.

"If I can use my platform as World Food Prize winner to bring more attention to CIMMYT's research and training — which are critical for addressing the challenges of the next 50 years in producing food and maintaining ecosystems — I will work very hard to do that."

— Dr. Sanjaya Rajaram

When he presented the check to CIMMYT last fall, Rajaram said he "hoped it would serve as an example to other people who believe in training."

Rajaram started his CIMMYT career as a post-doctoral fellow, working alongside Dr. Norman Borlaug. He then went on to lead the bread wheat breeding team from 1973-1995 and develop wheat varieties



Sanjaya Rajaram, left, presents a check to Hans-Joachim Braun.

among the most widely-grown worldwide. He served as director of the GWP from 1996 to 2002.

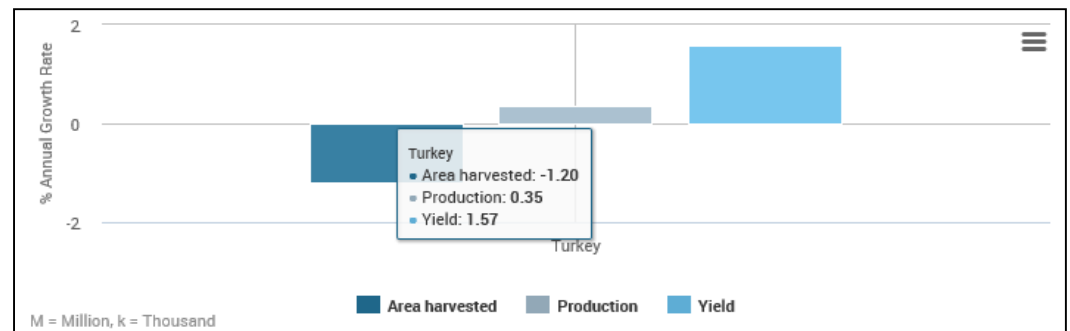
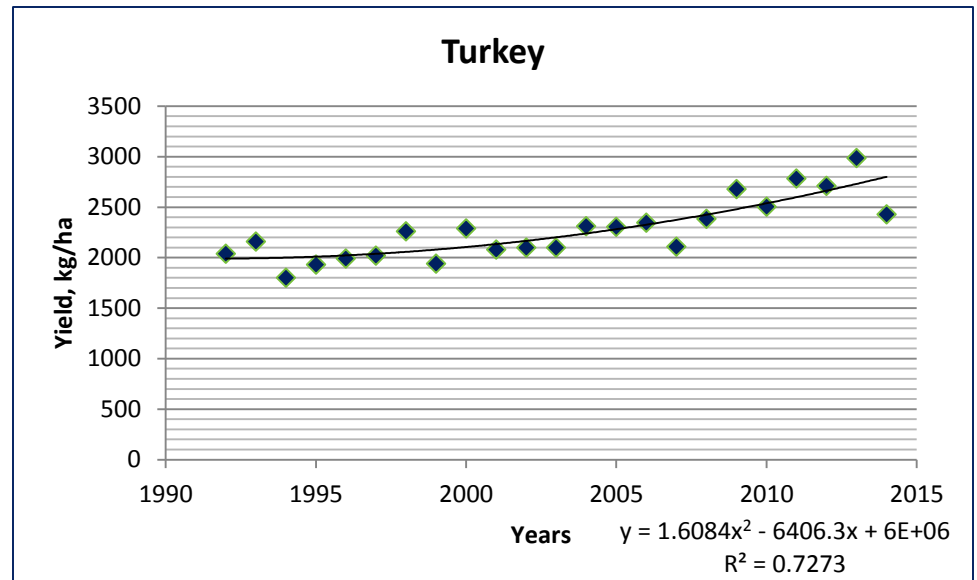
In his four decades at CIMMYT, Rajaram trained more than 400 wheat scientists. "He influenced so many trainees who lead wheat breeding in their home countries, and many became national research leaders," said current GWP Director Hans-Joachim Braun. ||

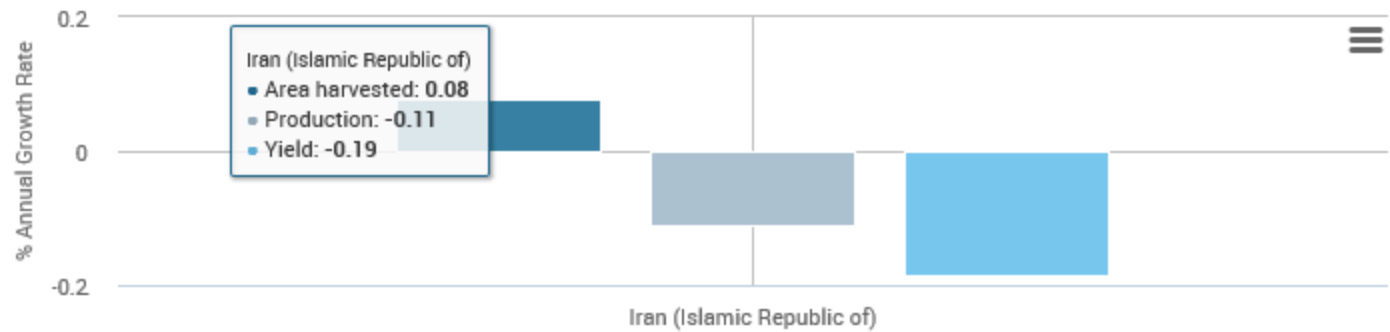
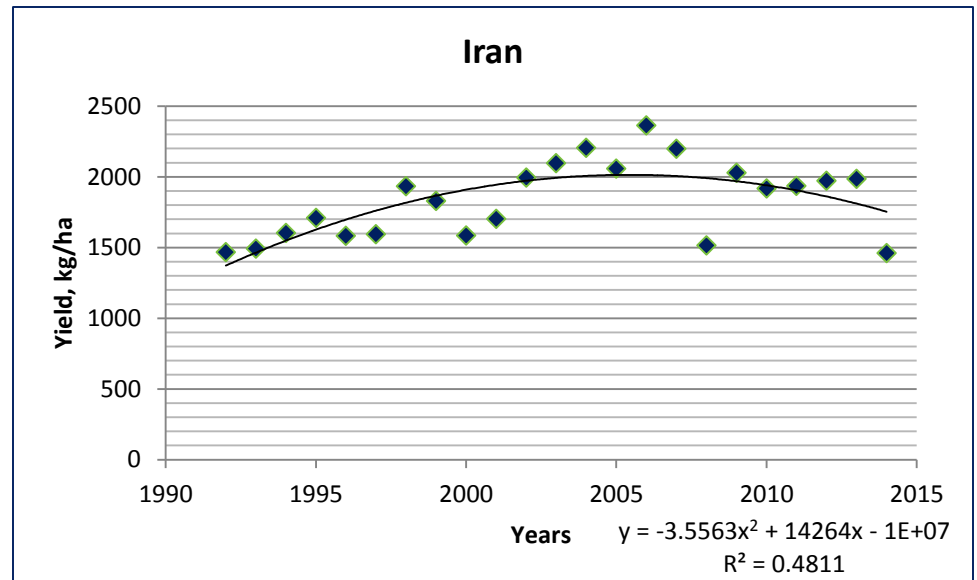
Find out how Dr. Rajaram has influenced top CIMMYT scientists in our new video series, which debuted this week on YouTube. Dr. Ravi Singh, a wheat breeder, talks about his mentor in [the first video](#).



This classic photo of Dr. Sanjaya Rajaram, left, and Dr. Norman Borlaug studying data at the Ciudad Obregón experiment station in the 1990s was taken by **Gene Hettel** of the International Rice Research Institute. The photograph has been in CIMMYT's archives for years, but there was no information about the photographer. We're delighted to learn more about the photo and to give Hettel credit for his work. ||







M = Million, k = Thousand

Area harvested    Production    Yield