

# Why ISTA membership and accreditation benefits the seed industry



Steve Jones, ISTA Immediate Past President (2022-2025)



### standard methods

CONFIDENCE

### competence

pride

assured quality

added value

QC

support to industry

farmer's needs traceability









### ISTA Rules from 1931

ANNUAL MEETING

01-04 JULY

2024

CAMBRIDGE, UNITED KINGDOM

- ➤ No standards in the ISTA Rules but internationally agreed methods for seed quality assurance, government/distinct economies designated members vote on the Rules
- ➤ ISTA = uniformity in seed testing since 1924
- ➤ ISTA Accreditation Standard for Laboratories and Sampling Entities

Accredited laboratories **perform more consistently** than non-accredited laboratories. Accredited laboratories are **audited** every 3-years with annual compulsory proficiency testing (**PTs**)

➤ Accreditation is an insurance policy for all users to know the quality of seed being planted, e.g. does it have the potential to germinate when sown and achieve high field performance?



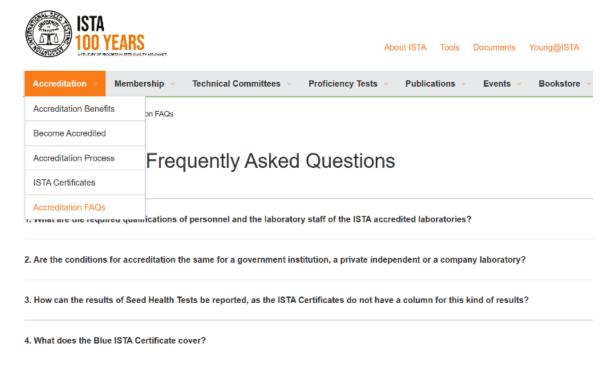




# Why become ISTA Accredited?



**Accreditation Benefits - International Seed Testing Association** https://www.seedtest.org/en/accreditation/accreditation-benefits-1109.htm



ISTA Accreditation Programme Benefits (youtube.com) https://www.youtube.com/watch?v=EZSNg6p-Skg&t=96s





### Why become ISTA Accredited?



#### What is unique about ISTA accreditation?

- internationally accepted methods for seed quality assurance
- methods and accreditation system
   approved by Governments facilitates unimpeded movement of seed
- mandatory external and internal proficiency testing (PTs)
- laboratories testing seed to a recognised standard and competence is benchmarked globally through comparison with other accredited laboratories
- risk of poor quality seedlots (e.g. poor germination, pest contaminants) is greatly mitigated

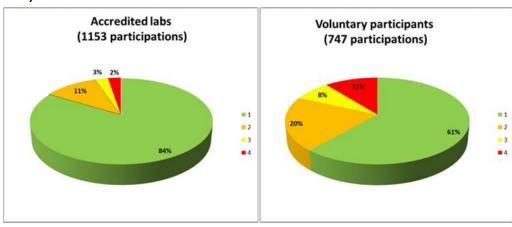


Figure 1: Laboratories rating for the year 2023 for all tests and all participants on PT22-3, PT23-1, PT23-2. Comparison between accredited and voluntary participating laboratories.





### Why become ISTA Accredited?



#### Other advantages:

- risks minimised working within an internationally recognised accreditation system
- > potential to identify problems with seed lots early in the seed value chain
- > enhanced customer confidence in the seed quality information from the company
- more cost effective than using external laboratories for seed testing
- an ISTA member can input into and influence ISTA strategy and policies e.g., introduction of new cost-efficient technologies





### Case study examples



What is the **cost and the benefit?** 

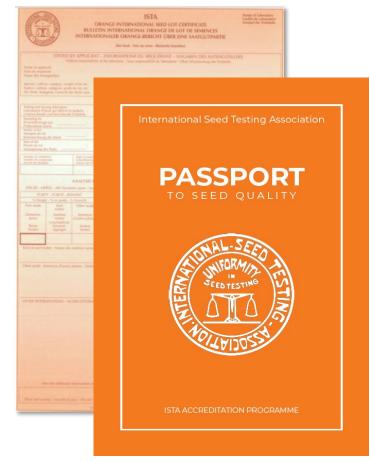
Perhaps you can use the idea that if a **crop fails** any compensation is often linked to **%germination test** values

#### For example:

In some countries compensation to farmers involves repayment of original seed lot cost plus any loss in income

Information on original seed lot %germination is essential in the calculations

Such compensation could be **equivalent to the annual income** for a small farmer









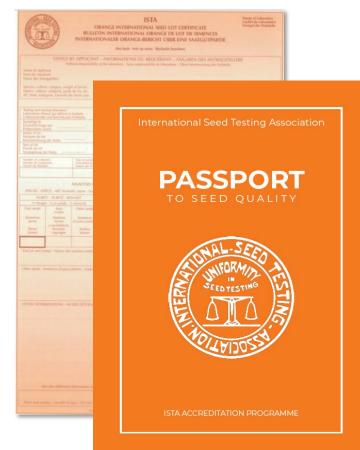
### Case study examples



#### Other examples:

- ➤ In some countries **fines can be levied** on seed suppliers, if labelled quality standards are not met
- ➤ In other situations, there are **private settlement payments** made between suppliers and farmers due to crop failures
- ➤ This can involve large amounts of money and could be based on problems with %germination, varietal purity or other reasons.

  All needing reliable test results
- ISF contract mediation can involve using ISTA accredited laboratories









### Cost linked to accreditation?



#### Having decided to "build" your own seed sampling and testing laboratory

Can you buy one "off the shelf"?
Import expertise from another country?
Or build your own?
Train your own staff?

- ➤ It will all **cost time and money**, especially with any kind of accreditation, be it ISO-17025 or ISTA Accreditation
- Can you convince people to spend the money you need?
- > You will need a good business case. What is the cost and the benefit?



#### International Rules for Seed Testing 2024

ISTA 100 YEARS

Address: Richting 32, 8304 Wallselen Post Address: Richtarkade 18, 8304 Wallselen Switzerland

t the Ordinary 6

STA Accreditation Standard for Seed Testing and Seed Sampling

Validation St 01,2004 STA Acceptation Standard

Version 7.8





# Cost of being accredited



ISTA has 156 accredited laboratories/sampling entities worldwide (163? by 2025)

Accredited laboratories that have achieved the ISTA "badge" of quality

can sample, test and issue the ISTA the OIC

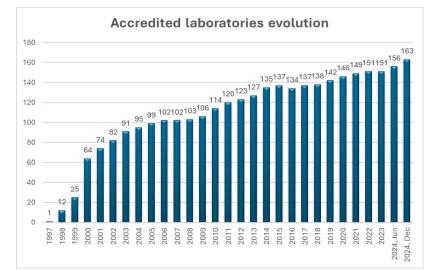
Accredited sampling entities can sample for an ISTA OIC

#### No other laboratories/sampling entities can do that

The annual cost is the same in all countries

It costs 10768 CHF per year to be an ISTA accredited member and includes the audit fee on an annual basis











# Cost of being accredited



Membership fees alone are 10768 CHF per year to be an ISTA accredited laboratory/sampling entity (this is including the audit fee on an annual basis)

If a laboratory charges 110 CHF for the test results issued on an ISTA Certificate, then it must test 100 samples per year to recover that cost (100 x 110 = 11000)

In some countries they cannot justify charging customers 220 CHF for their testing services and results on an ISTA Certificate

Perhaps they can only charge 22 CHF, then they need to test 500 samples  $(500 \times 22 = 11000)$  to cover that cost

(11000 CHF = US\$ 12250 = 11332 Euro)





# Cost of being accredited



> The cost does not stop with the cost of ISTA accredited membership/audit fees

On-going costs of running a business and a seed sampling and testing laboratory all apply

### For example, the time spent on:

creating and maintaining the quality management system, staff training, maintenance of staff competence, calibration and verification to ensure equipment is reliable

Next what are the benefits of being accredited?





# Benefits of being accredited



#### **Benefits to laboratories:**

- > enhanced reputation worldwide
- > reliable and repeatable test results
- > easily available in-country sampling and testing
- > part of ISTA's Proficiency Test (PT) system

#### And to end-users:

- > more secured seed supply
- > seed of known quality for planting
- > avoid crop failure due to poor seed quality
- > improved global food security









### Conclusions



- 1. The decision is there for the country / company to make
- 2. The decision can be based on a number of factors as discussed
- 3. The reasons may not just be economic but could also based on other factors

But poor performing seedlots cost everyone (farmer, seed merchant, end-user) and reduce food security and replanting schemes globally





# Consider joining ISTA



Join as an ISTA member laboratory/sampling entity then become accredited see

How to become ISTA accredited video

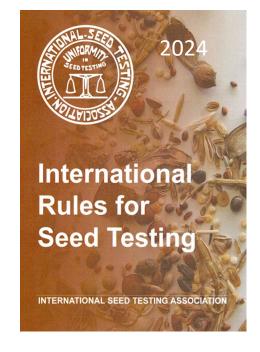
https://www.youtube.com/watch?v=VIUYifLQycU



https://www.seedtest.org/en/publications/international-rules-seed-testing.html

Help maintain uniformity in seed testing worldwide











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### Thanks to everyone

who has contributed to ISTA in the past

who contributes now

THANKYOU! and who will contribute in the future

**®ISTA ANNUAL MEETING 2024** 



