Reducing Fusarium Head Blight (Scab) on Wheat & Barley

The U.S. Wheat & Barley Scab Initiative's (USWBSI's) stakeholder-driven approach is aimed at identifying and providing research-based solutions to the FHB problem on wheat and barley.

HAVING AN IMPACT...



USWBSI funded breeding efforts for FHB resistant wheat and barley cultivars in FY21 resulted in:





DISEASE FORECASTING

80% of users indicate USWBSI's FHB Risk Tool assisted in increasing crop profits



8% MADE APPROPRIATE GRAIN PURCHASING OR MARKETING DECISIONS

42% IDENTIFIED THE 42% IDENTIFIED THE NEED FOR FUNGICIDES, REDUCING POTENTIAL DISEASE LOSSES AND DON CONTAMINATION



MAKING IT POSSIBLE ...

Funding for wheat and barley FHB research is authorized and allocated at \$15 million/year through the U.S. Farm Bill.



\$8.6 MILLION ALLOCATED TO USWBSI FUNDING (DISTRIBUTED BY USDA-ARS) \$6.4 MILLION IS ALLOCATED DIRECTLY TO USDA-ARS BASE FHB RESEARCH

\$1

DISEASE

MANAGEMENT

Pls in 20+states

conducted Integrated

Management trials to

evaluate new fungicide chemistries for growers

ECONOMIC RETURN

For every \$1 invested in FHB research by the USWBSI, there

are \$71 in benefits generated

FHB RESEARCH FUNDING BY RESEARCH AREA **TRAINING** VARIETY DEVELOPMENT & HOST PLANT RESISTANCE | 60.67% PATHOGEN BIOLOGY & GENETICS | 4.58% 40+ GRADUATE STUDENTS AND POST-DOCTORAL RESEARCHERS FUNDED AND TRAINED YEARLY BY USWBSI PIS NETWORKING AND FACILITATION | 5.16% FHB MANAGEMENT | 10.63% FOOD SAFETY & TOXICOLOGY | 10.77% GRADUATED AND/OR ACQUIRED JOBS IN FY20 GENE DISCOVERY & ENGINEERING RESISTANCE | 8.20% **STATES WITH USWBSI RESEARCH PROJECTS** 93 Land-Grant Universities and USDA-ARS PI's funded through competitive grants 31 States

FHB RESEARCH PUBLISHED



research articles, associated with USWBSI funding, published in FY21 furthers the progress of FHB research in wheat and barley

SOFT WHITE SPRING 3% (1)

HARD RED SPRING 22% (8)

HARD RED WINTER | 5% (2)

SOFT WHITE WINTER 3% (1) SOFT RED WINTER 48% (18)

BARLEY | 13% (5) DURUM | 5% (2)



All references use USWBSI FY21-22 data reports and sources, unless otherwise noted.