International Survey of Herbicide-Resistant Weeds

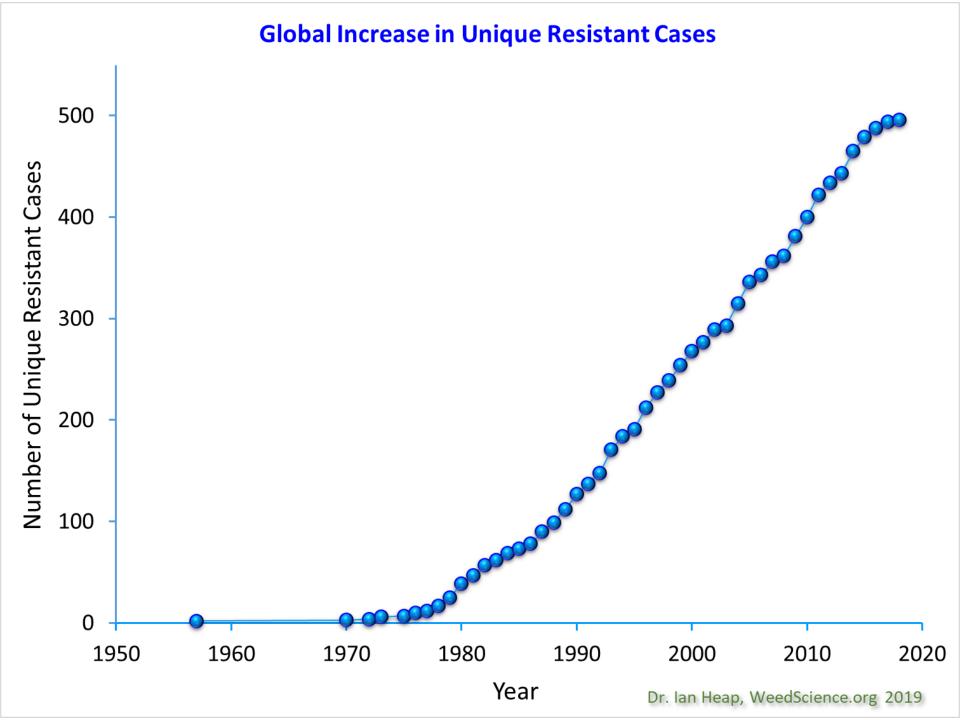
WSSA CODES

Graphs in this PowerPoint were made from data accessed from the survey website at http://www.weedscience.org on February, 2019.

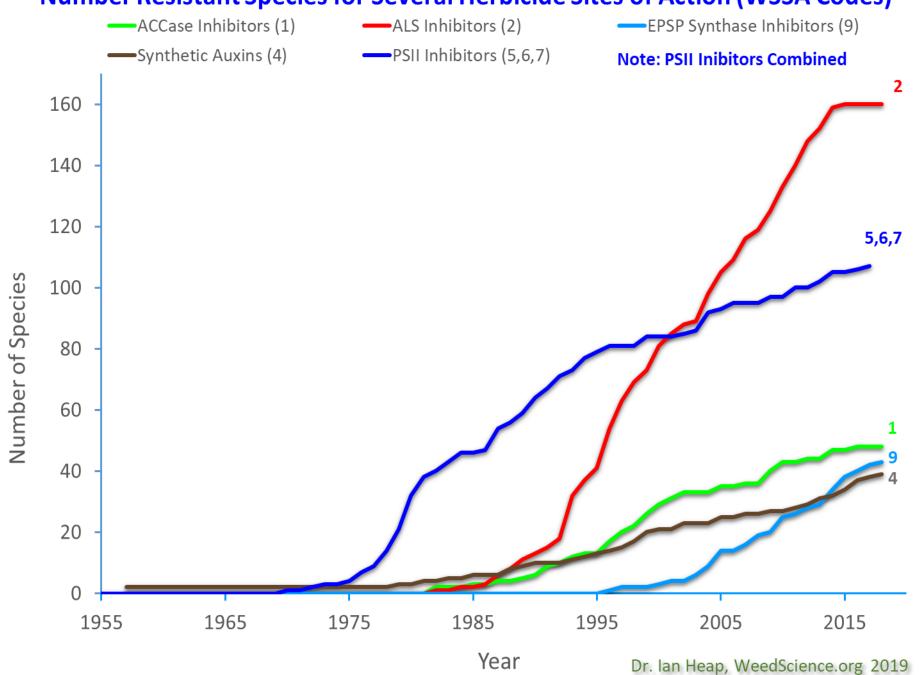
The Site of Action codes used in this slide set are from the Weed Science Society of America (WSSA).

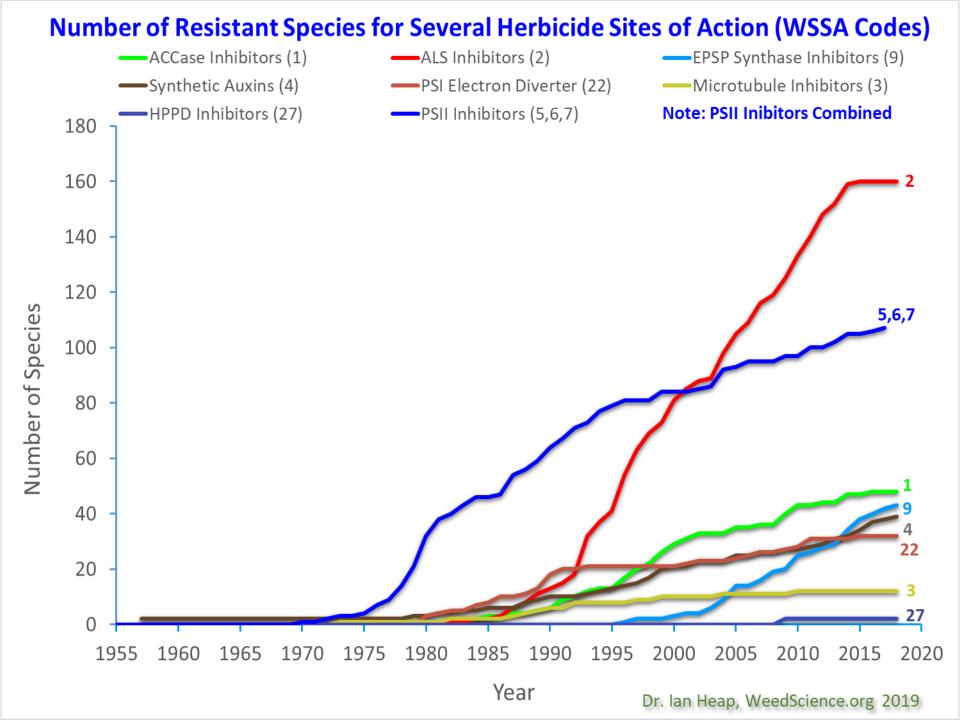
Another version for HRAC codes can be downloaded from the website.

Ian Heap — <u>lanHeap@weedscience.org</u>

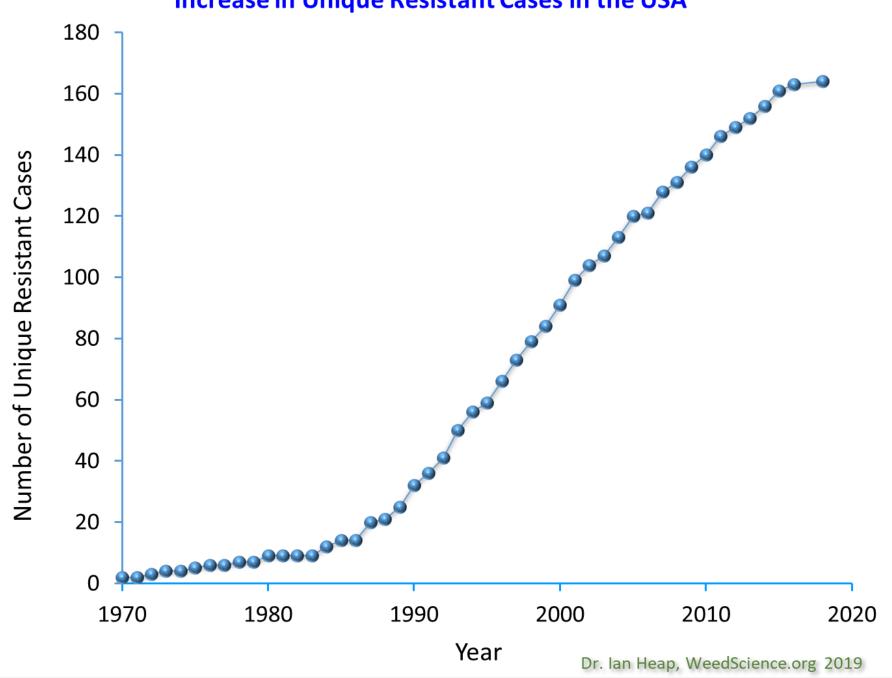


Number Resistant Species for Several Herbicide Sites of Action (WSSA Codes)

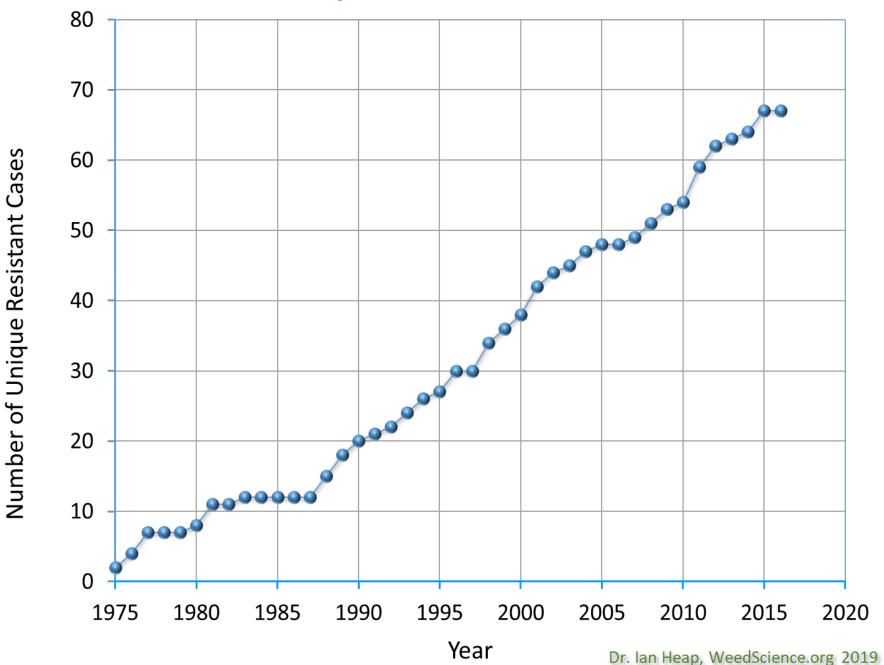




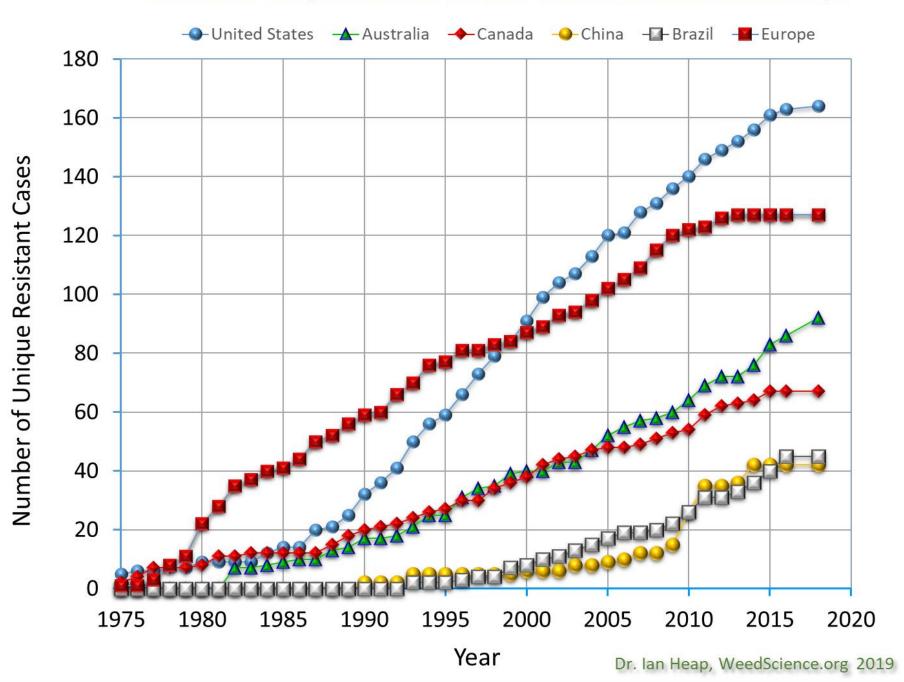




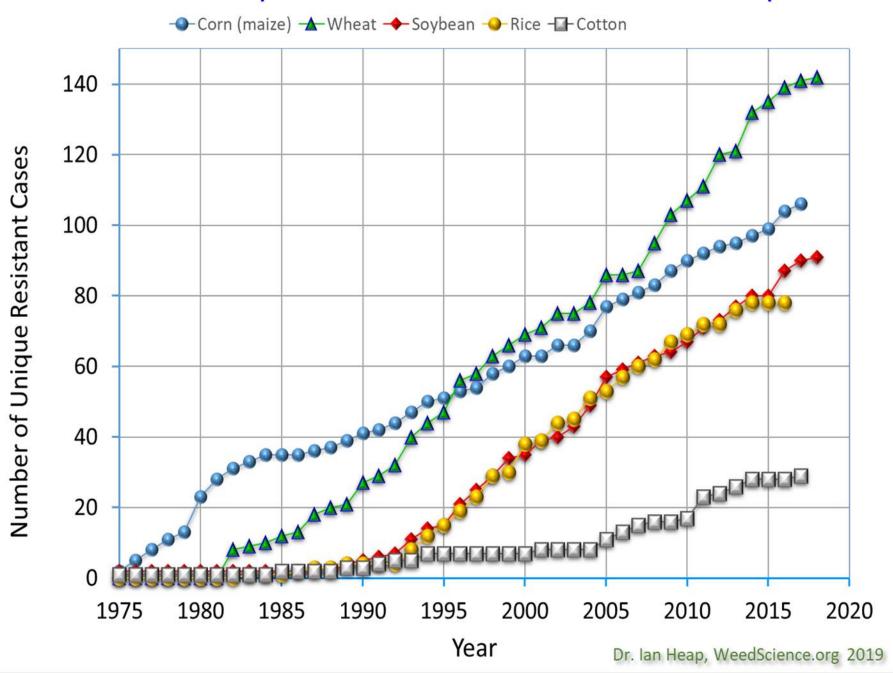
Increase in Unique Resistant Weed Cases for Canada



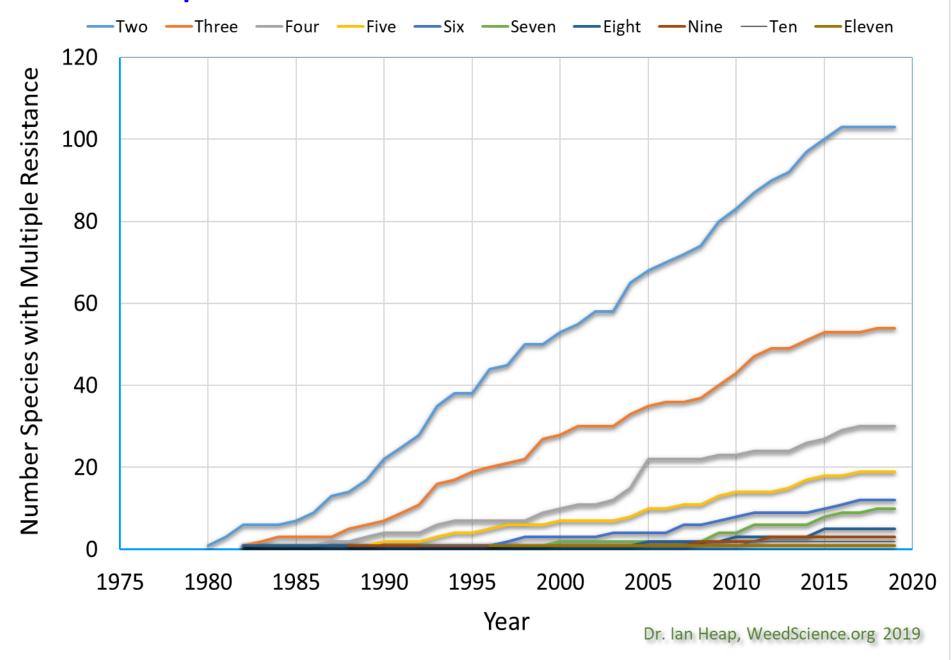
Increase in Unique Resistant Cases for Selected Countries and Europe



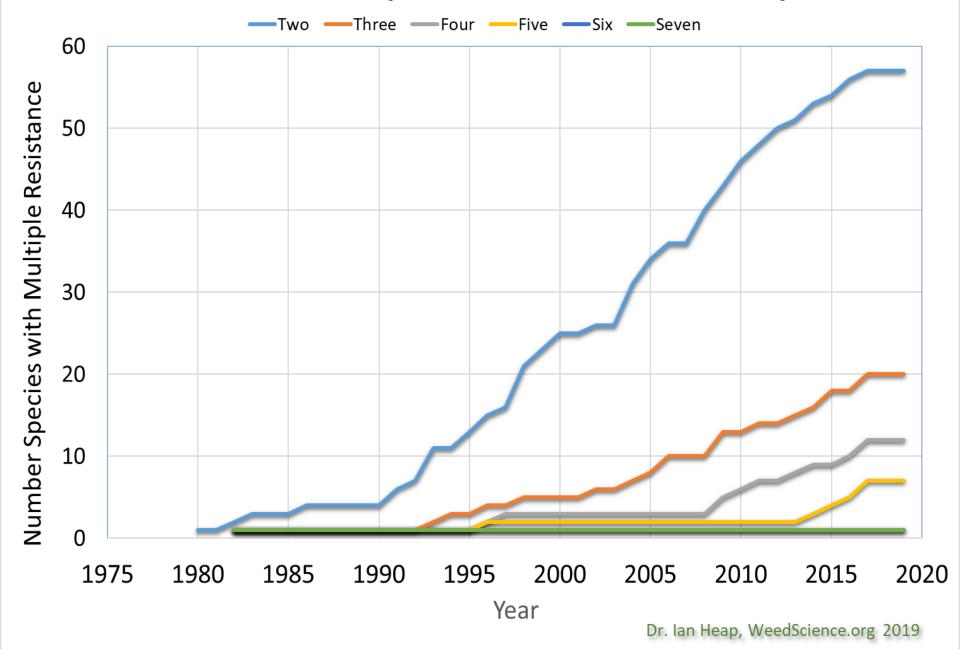
Increase in Unique Herbicide Resistant Weed Cases for Selected Crops



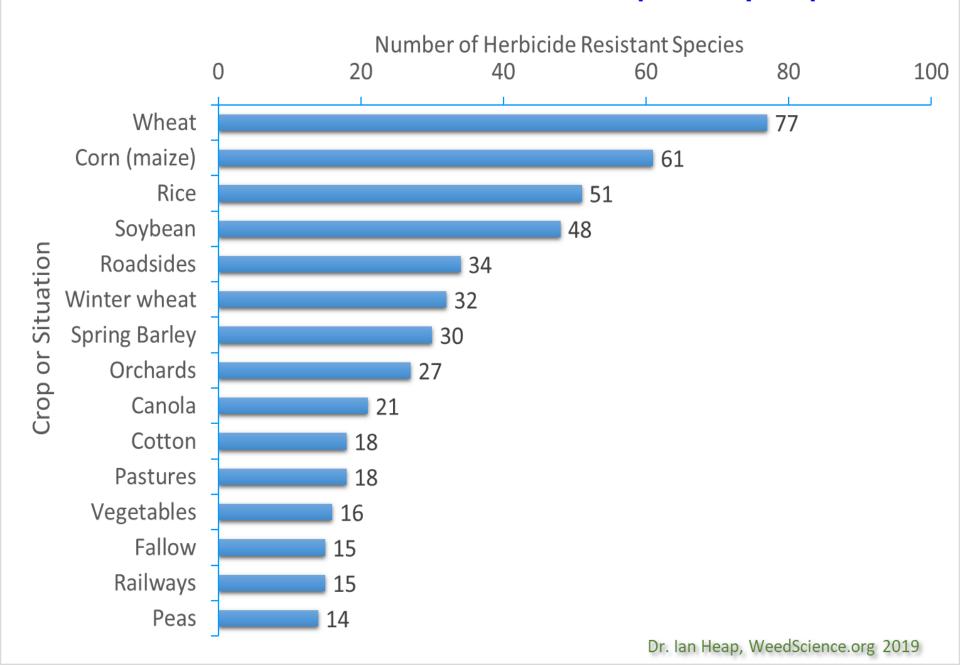
Weed Species with Resistance to More than One Site of Action



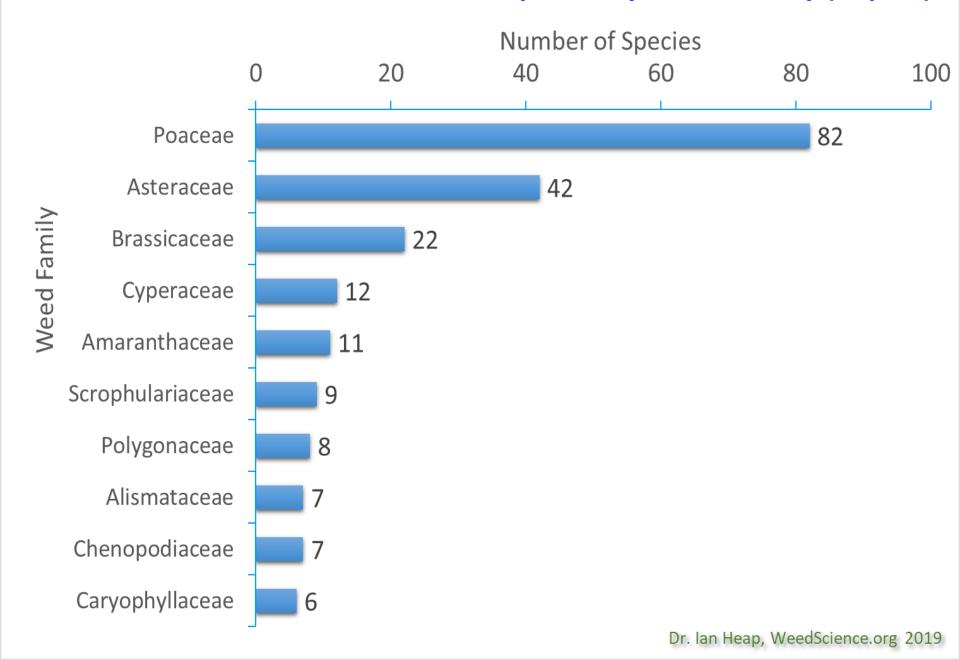
Weeds Resistant to Multiple Sites of Action within a Population



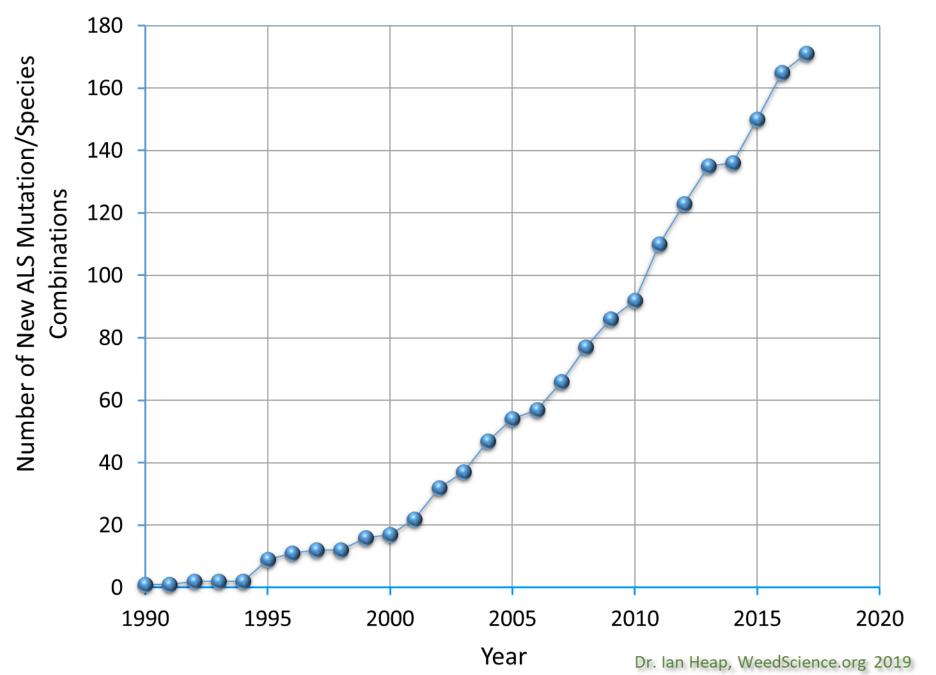
Number of Herbicide-Resistant Species by Crop

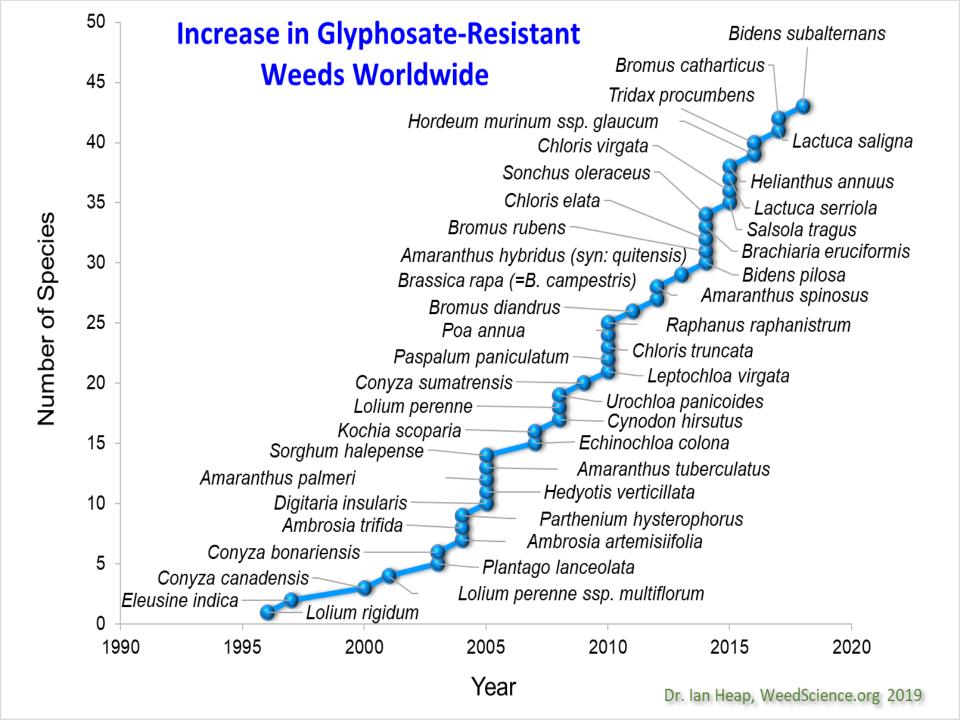


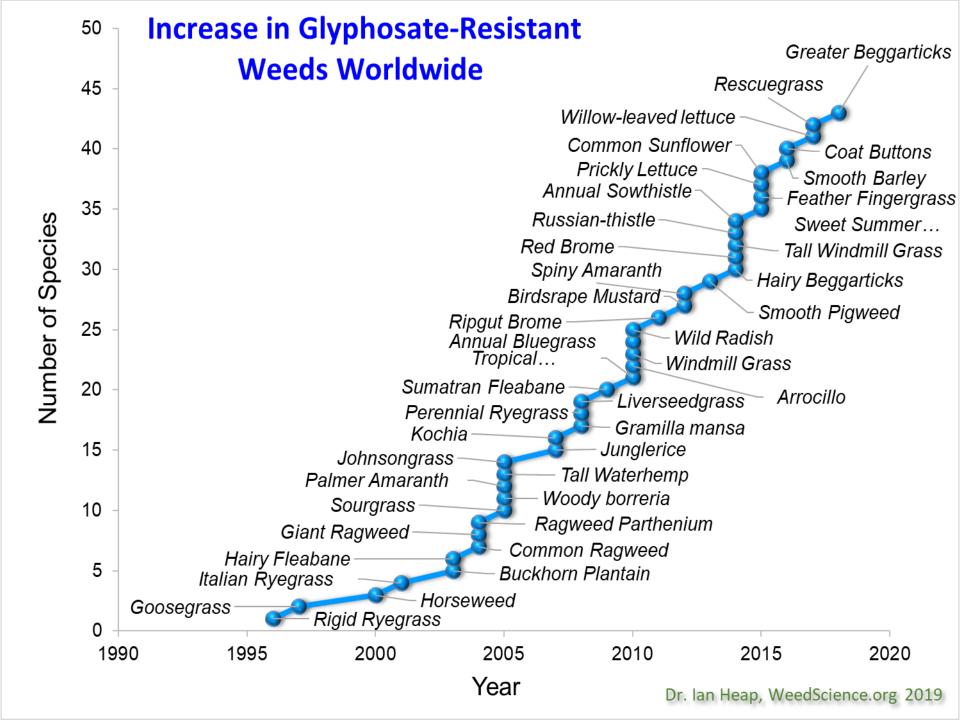
Number of Herbicide Resistant Weed Species by Weed Family (Top 10)



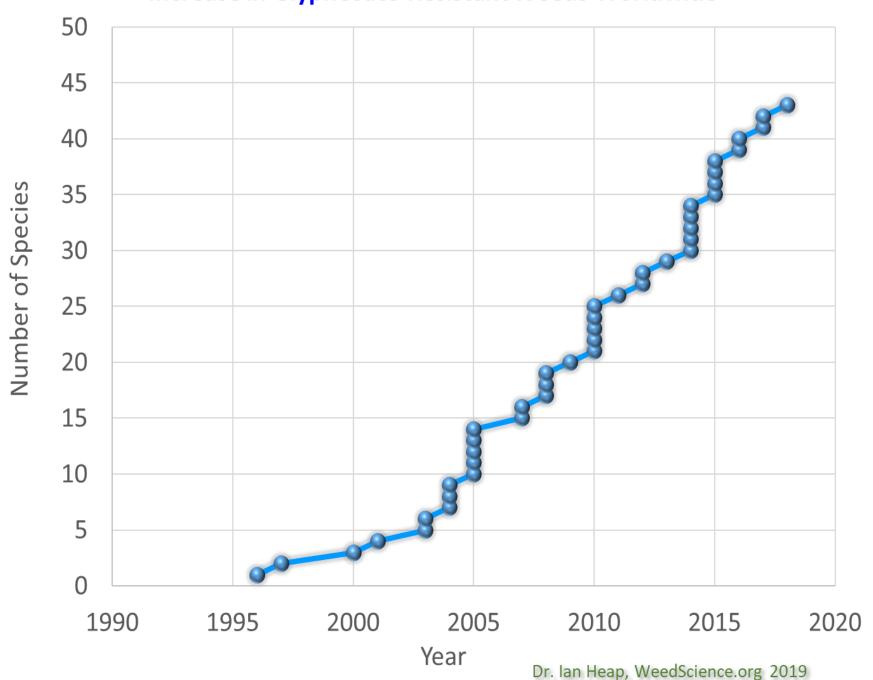
Accumulation of New ALS Mutations/Species Combinations Identified by Year

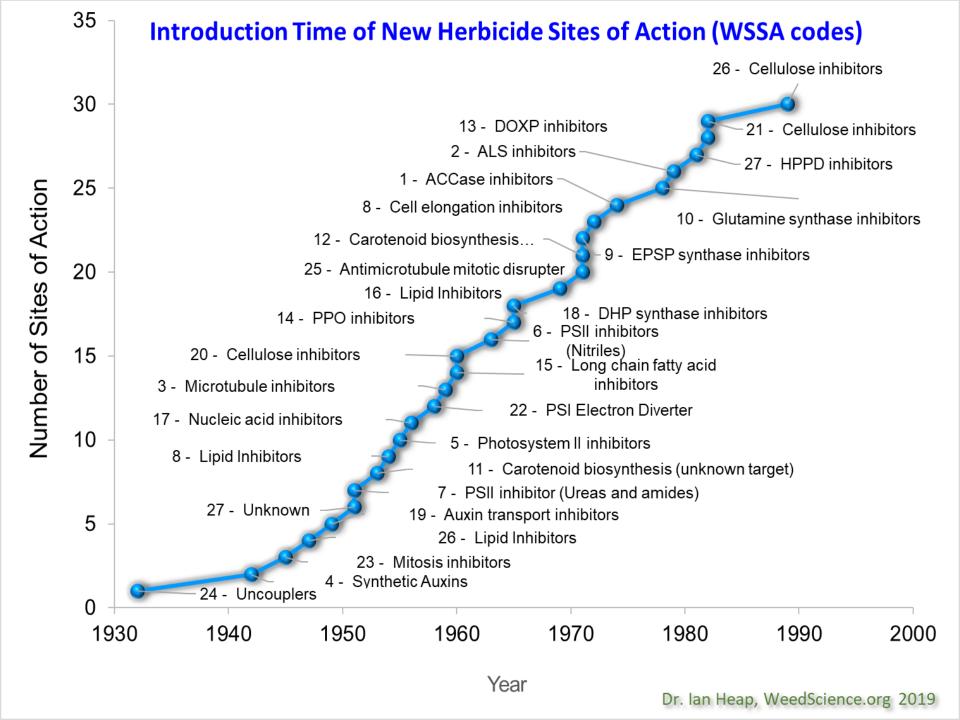






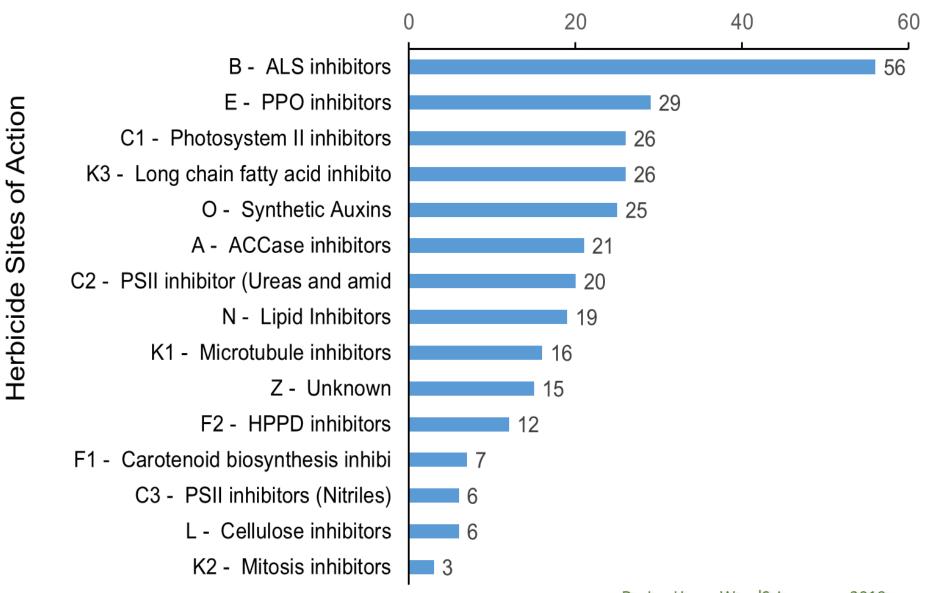
Increase in Glyphosate-Resistant Weeds Worldwide



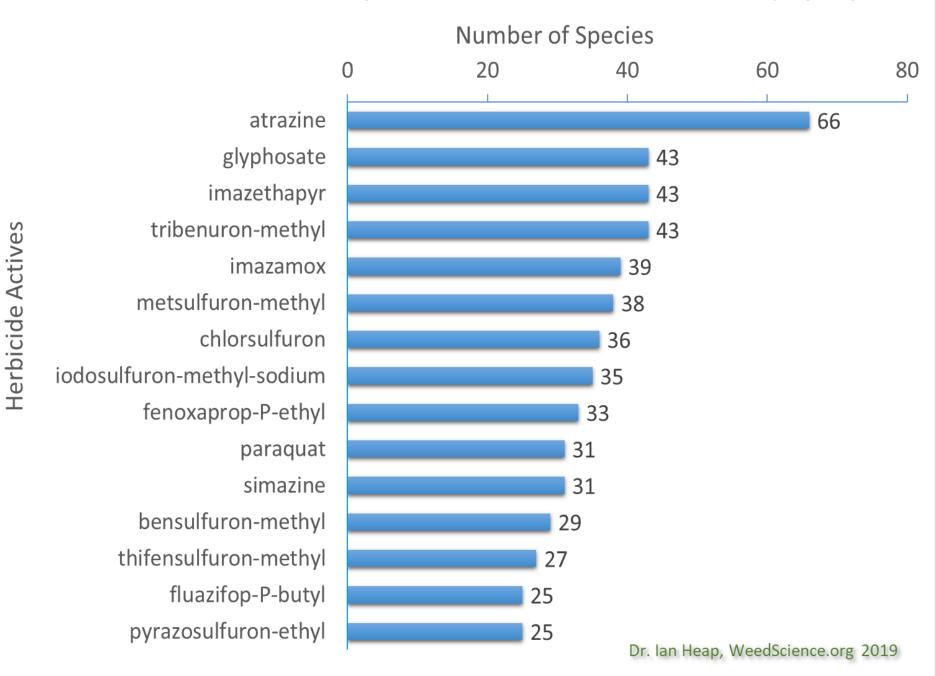


of Registered Herbicides for the Major Herbicide Sites of Action (HRAC codes)





Number of Resistant Species to Individual Active Herbicides (Top 15)



Weed Species Resistance to Multiple Herbicide Sites of Action

