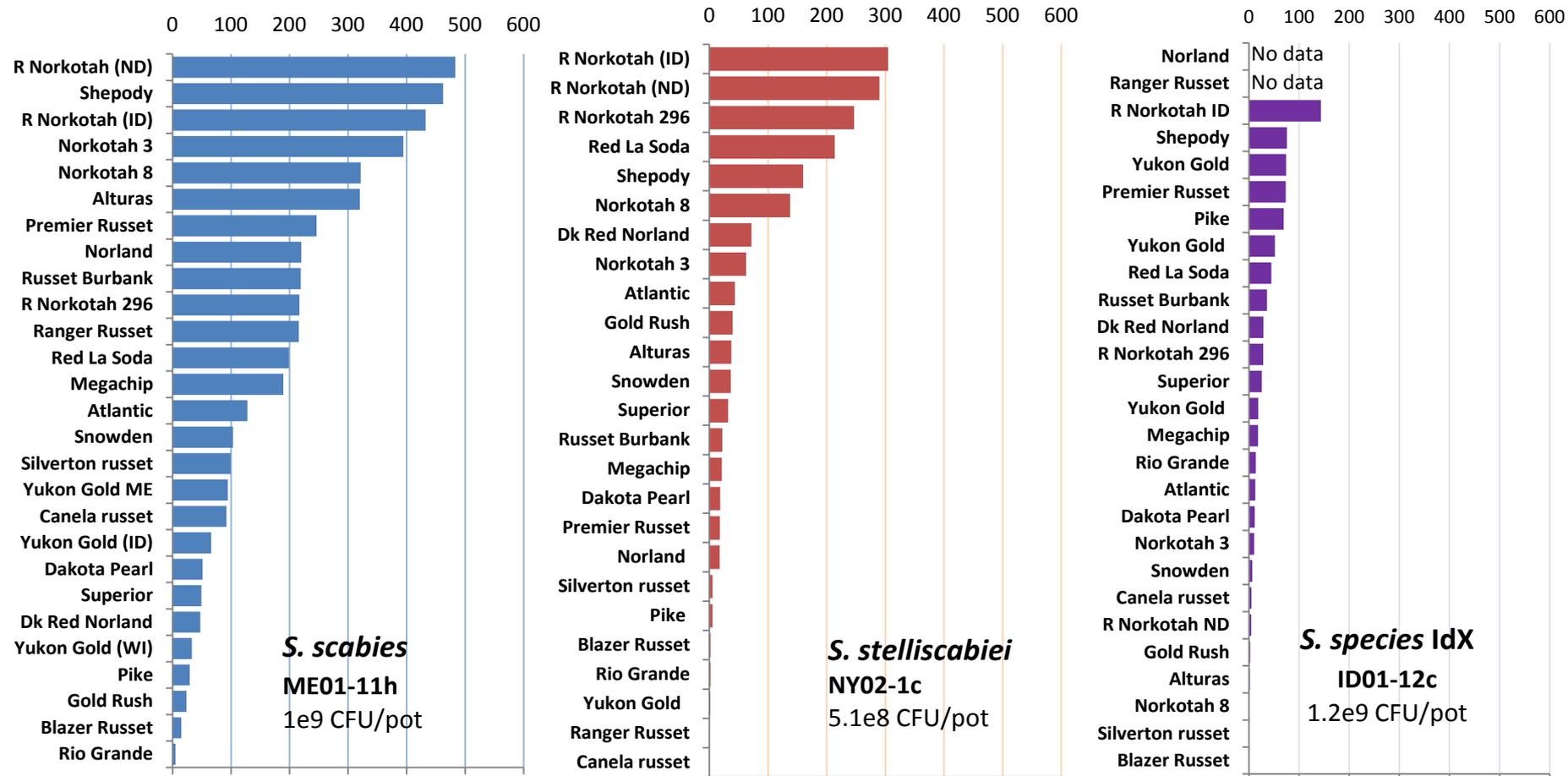


Common scab susceptibility of 24 most popular potato cultivars in USA, utilizing a greenhouse assay with three different pathogenic *Streptomyces* strains (species)

→ Increasing disease score



Cultivars are listed along the left side of graphs, ranked by disease severity, with most susceptible at the top and most resistant at the bottom. Disease score is a combination of type of lesion (surface, pits or raised lesions) and amount of surface area affected. Amount of pathogen applied was similar for all 3 *Streptomyces* strains, and is shown under isolate name on graphs. The *Streptomyces* isolates used are *S. scabies* ME01-11h, the most aggressive of the strains, isolated in northern Maine but found in many locations, particularly in the Northeast and Mid-West; *S. stelliscabiei* NY02-1c, which is intermediate in aggressiveness and is found in numerous locations primarily in the Northeast and Mid-West; and *S. species* IdX, the least aggressive of the strains, characteristic of Idaho but found in many locations. Some cultivars change in ranking in response to different *Streptomyces* strains (e.g. Alturas, Pike).

Experimental details of screening top 24 potato cultivars for common scab response in greenhouse assays in 2011.

Pathogenic <i>Streptomyces</i> isolate	Inoculum density/ pot	Mean quick score (0-6 scale)	Mean tubers scored/ rep	mean Les Type (LT) all reps	mean surface area (SA) all reps	Mean severity score LT*SA all reps	mean incidence all reps
ME01-11h	1e ⁹	3.16	8.7	3.9	37.3	176.3	90.3
NY02-1c	5.1e ⁸	1.86	7.4	2.2	21.1	71.7	79.5
ID01-12c	1.1e ⁹	1.64	7.5	2.2	10.2	30.4	73.1