

Cross test using Operating Model based on Life History

Biomass Dynamic and Stock Reduction Analysis

L Kell

09 July, 2018

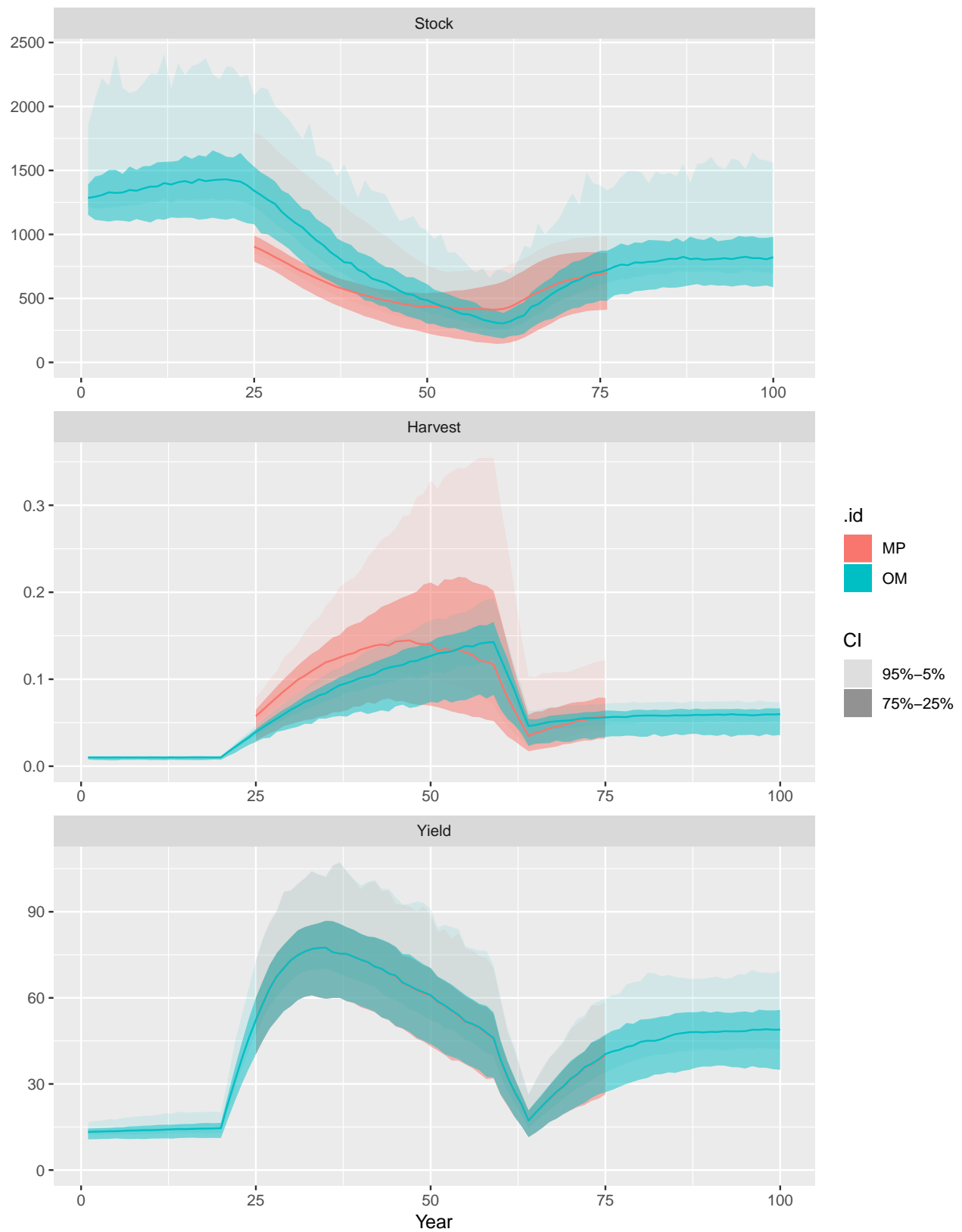


Figure 1, Biomass dynamic

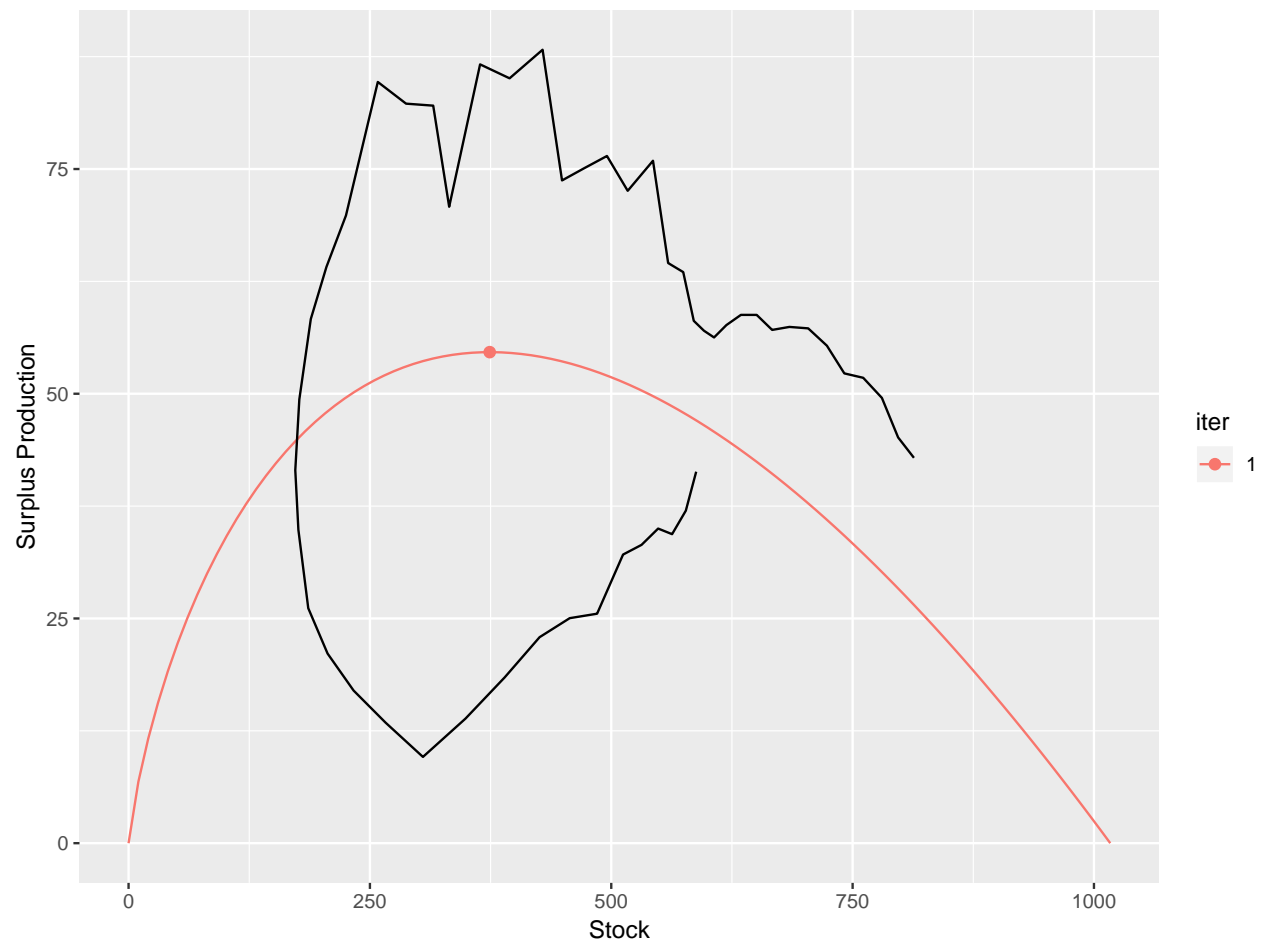


Figure 2, Biomass dynamic production function.

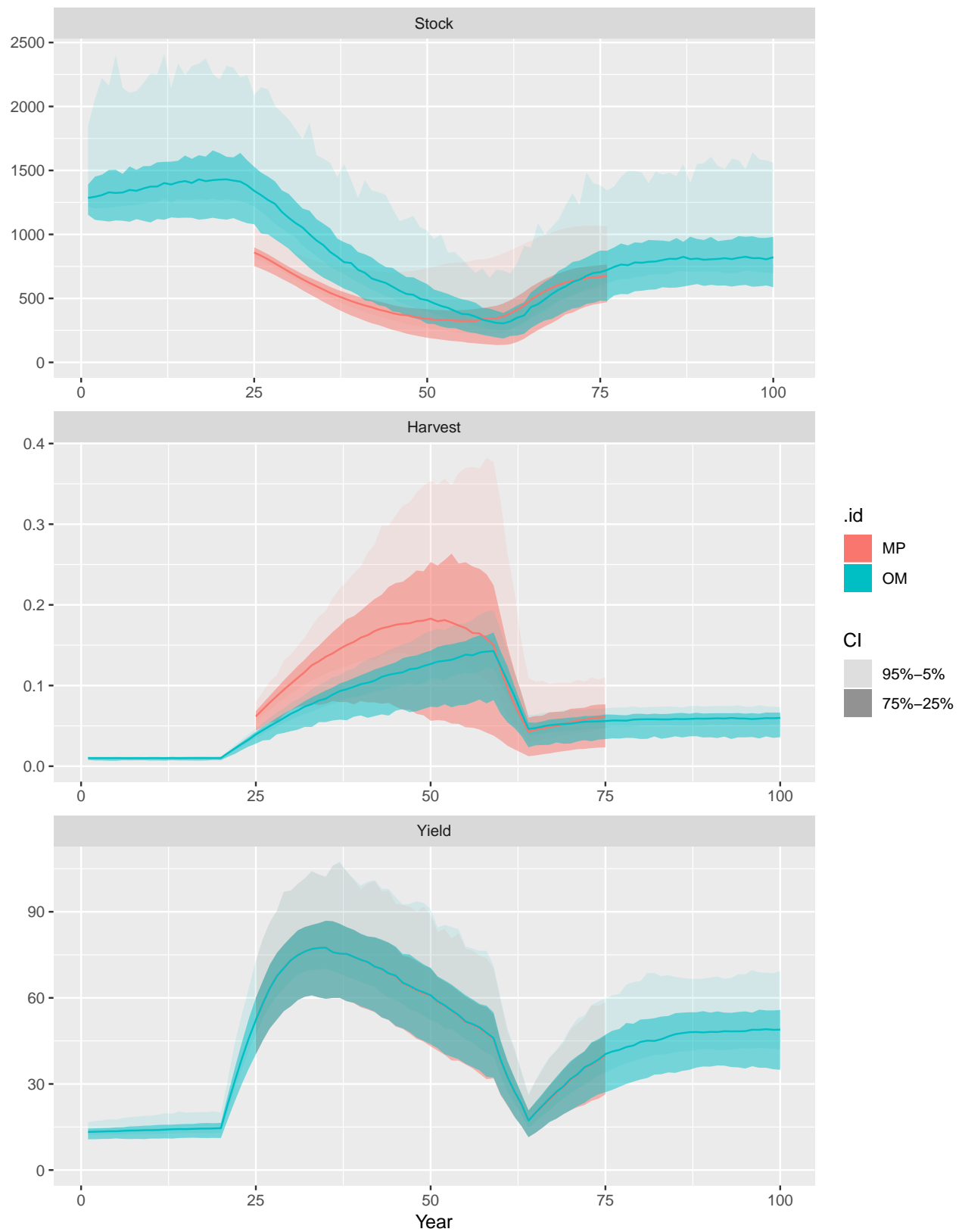


Figure 3, Stock Reduction Analysis

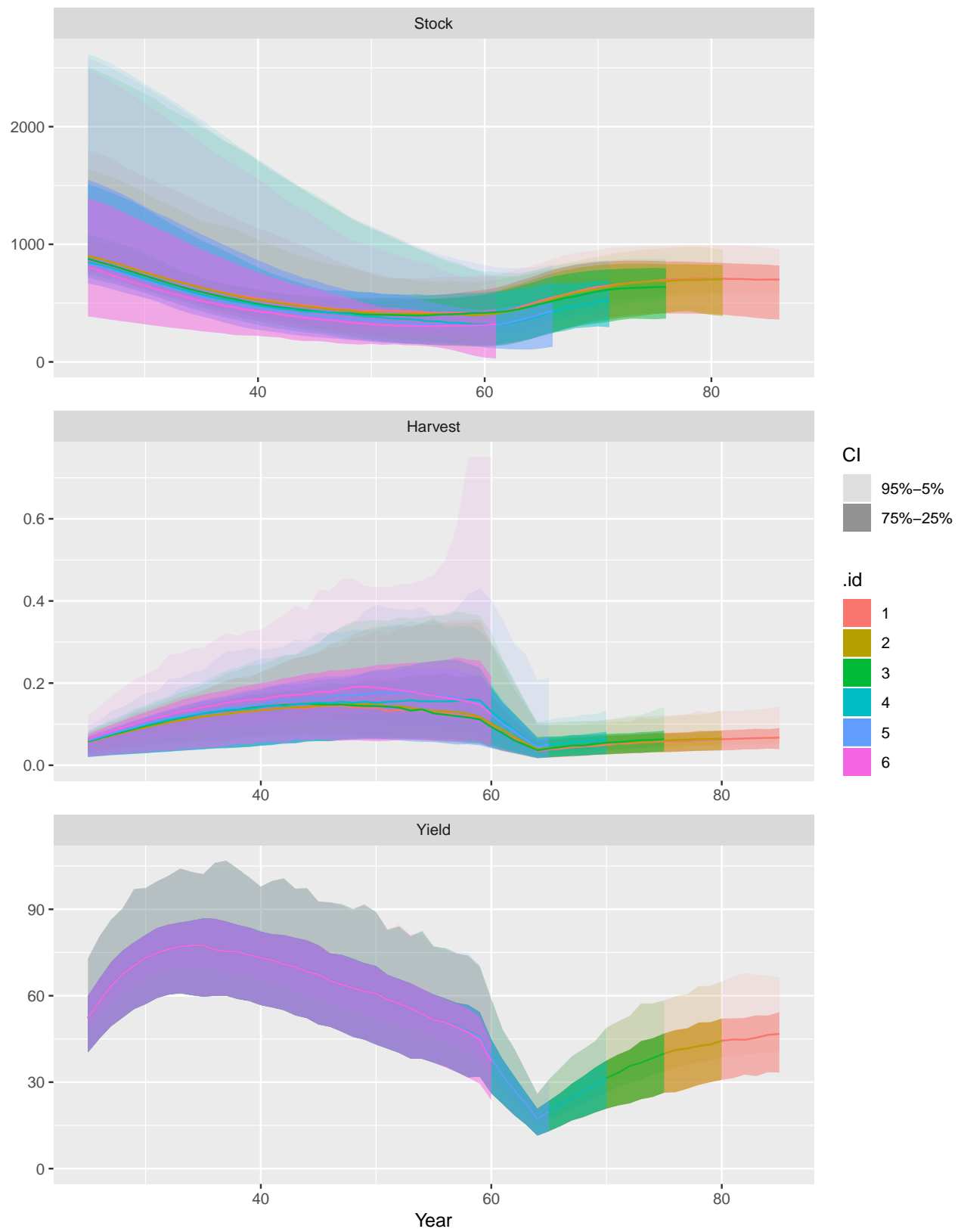


Figure 4, Biomass dynamic

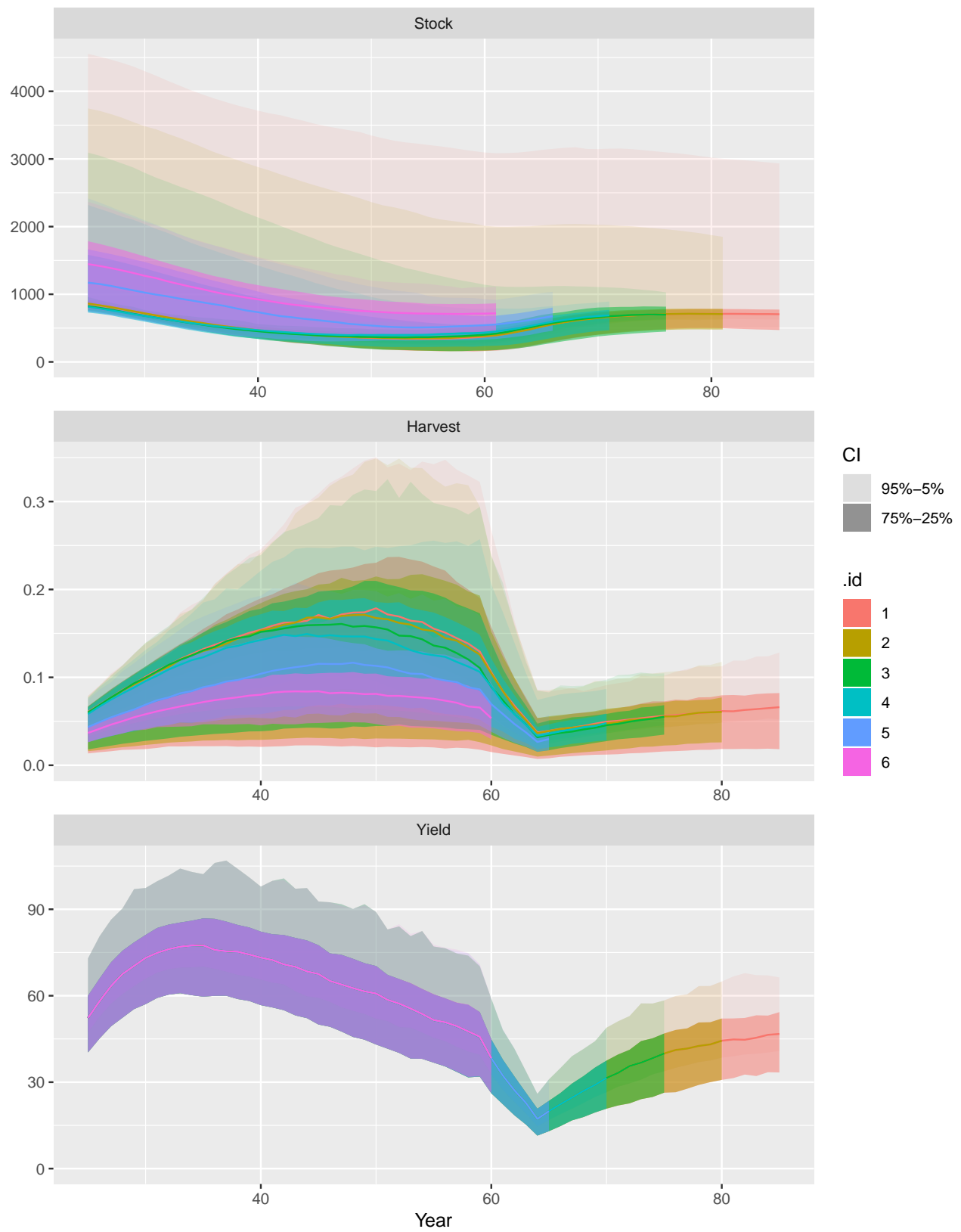


Figure 5, Stock Reduction Analysis

Session Info

R version 3.4.1 (2017-06-30)
Platform: x86_64-pc-linux-gnu (64-bit)
Running under: Ubuntu 16.04.2 LTS

Matrix products: default
BLAS: /usr/lib/libblas/libblas.so.3.6.0
LAPACK: /usr/lib/lapack/liblapack.so.3.6.0

locale:
[1] LC_CTYPE=en_US.UTF-8 LC_NUMERIC=C
[3] LC_TIME=en_GB.UTF-8 LC_COLLATE=en_US.UTF-8
[5] LC_MONETARY=en_GB.UTF-8 LC_MESSAGES=en_US.UTF-8
[7] LC_PAPER=en_GB.UTF-8 LC_NAME=C
[9] LC_ADDRESS=C LC_TELEPHONE=C
[11] LC_MEASUREMENT=en_GB.UTF-8 LC_IDENTIFICATION=C

attached base packages:
[1] stats graphics grDevices utils datasets methods base

other attached packages:
[1] mpb_3.0.0 ggplotFL_2.6.3 FLCore_2.6.8 lattice_0.20-35
[5] dplyr_0.7.5 plyr_1.8.4 reshape_0.8.7 ggplot2_3.0.0
[9] knitr_1.20

loaded via a namespace (and not attached):
[1] Rcpp_0.12.17 pillar_1.1.0 compiler_3.4.1 bindr_0.1.1
[5] tools_3.4.1 digest_0.6.15 evaluate_0.10.1 tibble_1.4.2
[9] gtable_0.2.0 pkgconfig_2.0.1 rlang_0.2.1 Matrix_1.2-10
[13] yaml_2.1.18 bindrcpp_0.2.2 gridExtra_2.3 withr_2.1.2
[17] stringr_1.3.1 stats4_3.4.1 rprojroot_1.3-2 grid_3.4.1
[21] tidyselect_0.2.4 glue_1.2.0 R6_2.2.2 rmarkdown_1.9
[25] purrr_0.2.5 magrittr_1.5 codetools_0.2-15 backports_1.1.2
[29] scales_0.5.0 htmltools_0.3.6 MASS_7.3-47 assertthat_0.2.0
[33] colorspace_1.3-2 labeling_0.3 stringi_1.2.3 lazyeval_0.2.1
[37] munsell_0.5.0

Software Versions

- R version 3.4.1 (2017-06-30)
- FLCore: 2.6.8
- FLife: 3.2.0
- FLRP: 1.0.1.9001
- **Compiled:** Mon Jul 9 08:21:58 2018

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References