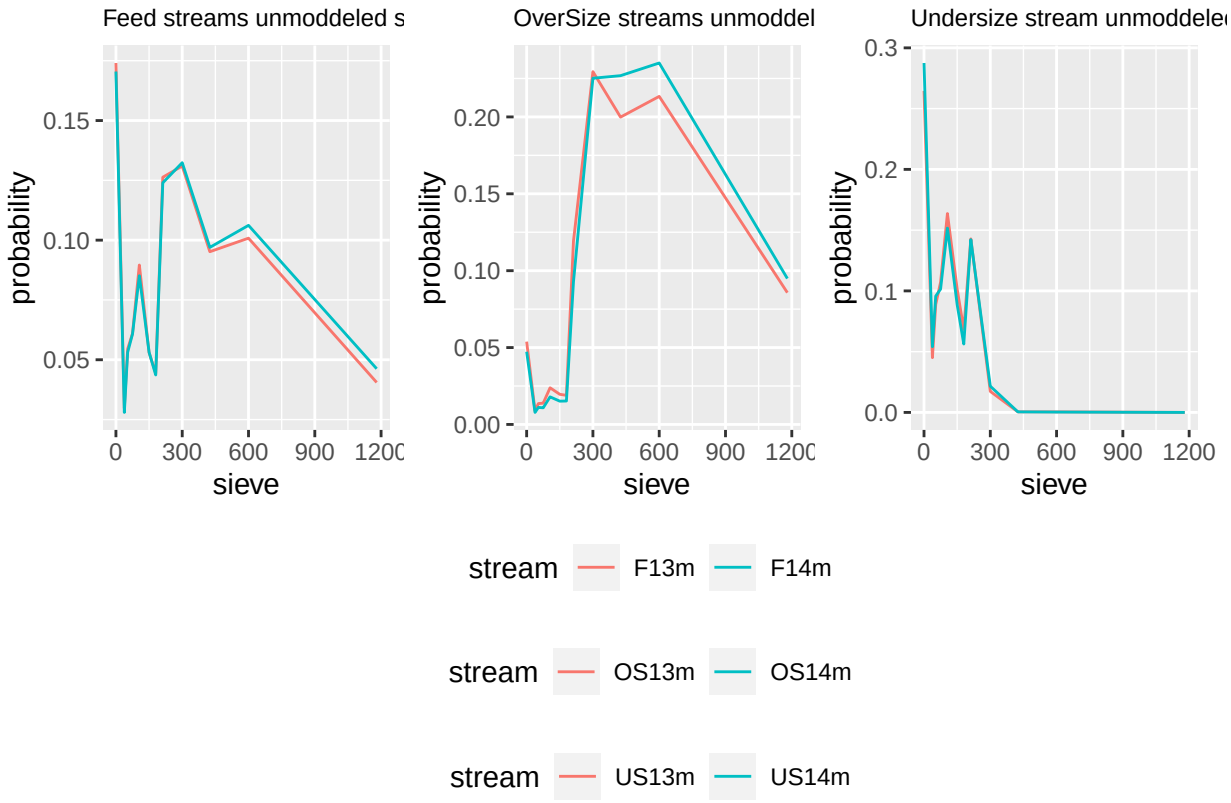
side by side plots

Aim is not to reprint plot's axes for each plotted side-by-side plot as they are the same..can be a common axis/axes.

https://stackoverflow.com/questions/13649473/add-a-common-legend-for-combined-ggplots ## method 1

Each test's feed stream PSD results were first compared to confirm that their distributions were simmilar to allow for comparitive statictics.

```
# package name: patchwork (side by side plots)
combined.plot_raw <- plot.Feedraw + plot.OSraw + plot.USraw & theme(legend.position = "bottom")
combined.plot_raw + plot_layout(guides = "collect")
```



Method 2

Each test's feed stream PSD results were first compared to confirm that their distributions were simmilar to allow for comparitive statictics.

difference in code starts here:

```
#combine the datasets:
combinePlotRaw <- rbind(long_feedraw,long_OSraw,long_USraw)

combinePlotRaw <- data.frame(combinePlotRaw,
                             Df = rep(c("Feed (unmodeled)","OS (unmod.)","US (unmod.)" ),
                                                    times=c(nrow(long_feedraw),nrow(long_OSraw),nrow(

outplot_all_unmoddled <- ggplot(combinePlotRaw, aes(sieve, probability, colour = stream)) +
  geom_line() +
  geom_point() +
  ggtitle("Feed streams unmoddeled solids frequency distribution.") +
  theme(plot.title = element_text(size=9)) +
  facet_wrap(~Df)


ggsave(here("05_fig_output","all_streams_preModelling.pdf"), outplot_all_unmoddled, width=10, height=8)
```

method 2 is perfect for this application:

- x and y same for all plots
- can combine with row bing...in this case no problem..with cbind will be a proble where different models(RR and GGS) have diffrenrows due to logs.

Method 3