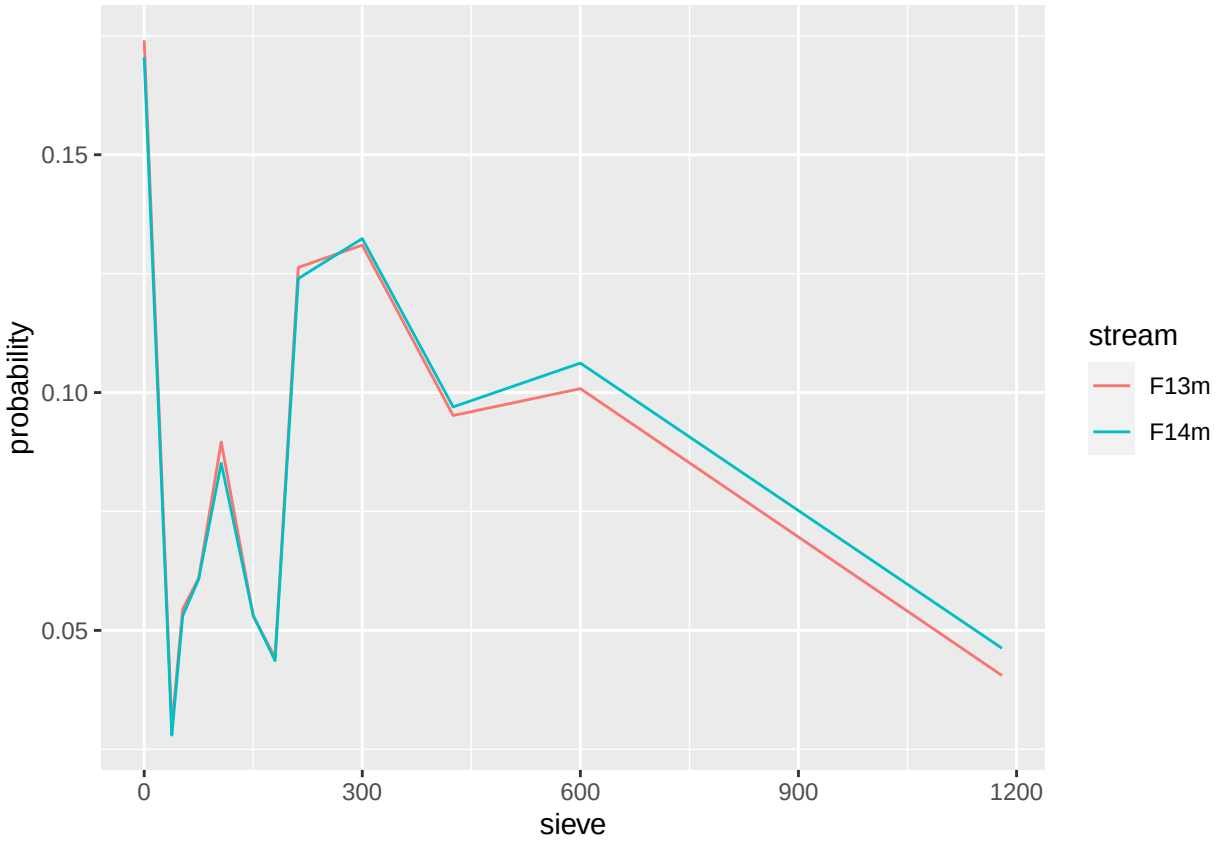
output:
html_document: default
pdf_document: default
word_document: default

Results and Discussion



The two most commmonly used distributions in Geology and Mineral Processing and specifically comminution circuits are the Roslin-Rammler and the Gates-Gaudin-Schumann distributions.

Both models were used to model all PSD screening data to, and the subsequent best fit model was selected in each case. Model selection was determined by comparing each PSD's transformed linear model's determinant (R^2). Interpolation betweeen measured sizing points is conducted by the back-transformation of the model-fitted points along the respective model's distribution function.

stream	r.squared	adj.r.squared	p.value	AIC
F13m	0.9956533	0.9951703	0.0e+00	-25.9593455
F14m	0.9955036	0.9950040	0.0e+00	-25.7171818
OS13m	0.9350773	0.9278637	1.2e-06	11.2322434
OS14m	0.9185811	0.9095345	3.4e-06	14.2023478
US13m	0.9717199	0.9681848	2.0e-07	0.7989748
US14m	0.9706707	0.9670045	2.0e-07	0.4601869

stream	r.squared	adj.r.squared	p.value	
F13m	0.8379477	0.8199419	0.0000771	14.4
F14m	0.8387440	0.8208267	0.0000754	13.4
OS13m	0.6817117	0.6463463	0.0017444	17.0
OS14m	0.6552875	0.6169861	0.0025357	16.9
US13m	0.7781676	0.7504386	0.0007306	38.7
US14m	0.7643995	0.7349495	0.0009360	39.9

Table 2:

stream	r.squared	adj.r.squared	p.value	AIC
F13m	0.9956533	0.9951703	0.0e+00	-25.9593455
F14m	0.9955036	0.9950040	0.0e+00	-25.7171818
OS13m	0.9350773	0.9278637	1.2e-06	11.2322434
OS14m	0.9185811	0.9095345	3.4e-06	14.2023478
US13m	0.9717199	0.9681848	2.0e-07	0.7989748
US14m	0.9706707	0.9670045	2.0e-07	0.4601869

Table 3:

stream	r.squared	adj.r.squared	p.value	AIC
F13m	0.8379477	0.8199419	0.0000771	14.40924
F14m	0.8387440	0.8208267	0.0000754	13.41234
OS13m	0.6817117	0.6463463	0.0017444	17.02321
OS14m	0.6552875	0.6169861	0.0025357	16.94985
US13m	0.7781676	0.7504386	0.0007306	38.75904
US14m	0.7643995	0.7349495	0.0009360	39.97982

Table 4:

stream	r.squared	adj.r.squared	p.value	AIC
F13m	0.9956533	0.9951703	0.0e+00	-25.9593455
F14m	0.9955036	0.9950040	0.0e+00	-25.7171818
OS13m	0.9350773	0.9278637	1.2e-06	11.2322434
OS14m	0.9185811	0.9095345	3.4e-06	14.2023478
US13m	0.9717199	0.9681848	2.0e-07	0.7989748
US14m	0.9706707	0.9670045	2.0e-07	0.4601869

Table 5:

stream	r.squared	adj.r.squared	p.value	AIC
F13m	0.8379477	0.8199419	0.0000771	14.40924
F14m	0.8387440	0.8208267	0.0000754	13.41234
OS13m	0.6817117	0.6463463	0.0017444	17.02321
OS14m	0.6552875	0.6169861	0.0025357	16.94985
US13m	0.7781676	0.7504386	0.0007306	38.75904
US14m	0.7643995	0.7349495	0.0009360	39.97982

Table 6: hello

stream	r.squared	adj.r.squared	p.value	AIC
F13m	0.9956533	0.9951703	0.0e+00	-25.9593455
F14m	0.9955036	0.9950040	0.0e+00	-25.7171818
OS13m	0.9350773	0.9278637	1.2e-06	11.2322434
OS14m	0.9185811	0.9095345	3.4e-06	14.2023478
US13m	0.9717199	0.9681848	2.0e-07	0.7989748
US14m	0.9706707	0.9670045	2.0e-07	0.4601869

Table 7:

	hp	drat	wt
Mazda RX4	110	3.90	2.620
Mazda RX4 Wag	110	3.90	2.875
Datsun 710	93	3.85	2.320
Hornet 4 Drive	110	3.08	3.215
Hornet Sportabout	175	3.15	3.440
Valiant	105	2.76	3.460