**Sideforce** as a Function of **Beta and Airspeed**

## Wind Tunnels Test Data Used:

* DT

## Modifications to data

* Sideslip angle smaller than +-90 deg

## Summary

% Fy = (beta [rad] \*2.194341022544540\*1E-1+skew [rad]\*7.781617995352236\*1E-4 )\* V [m/s]^2

% RMS = 1.2

% Fy = (beta [rad] \*2.552098952269741\*1E0+skew [rad]\*8.086387413837056\*1E-2 )\* V [m/s]

% RMS = 4.8

% Fy = (beta [rad] \*2.226114526713827\*1E1+ skew [rad]\*5.461659551681629\*1E-2)

% RMS = 10.7



Negligible effect of skew angle compared to sideslip angle. Especially considering sideslip normal range is +-15deg and skew is between 0-90 deg