EFFECT OF SUPERCRITICAL WING ON FUEL CONSUMPTION

TYPICAL PRESENT WING

NEW WING

SUPERCRITICAL WING FOR REDUCTION OF FUEL CONSUMPTION HAS:
- Refined airfoil shape
- Increased thickness
- Greater span
- Higher design lift
- Reduced sweepback

15% increase in aerodynamic efficiency

15% increase in speed

LIFT/DRAG

PRESENT TRANSPORTS

MACH NUMBER