





Sov. Stealth

R FOR:

ELEMENT	W	T	WT	003	011	018	025	032	079	095
<u>C. RELATIONSHIPS:</u>										
US practically disappears Sov does but leaves bigger trace				1						
Not as dark as US some silver showing				1						
Skin coating Primarily on underside				1						
Sov aircraft compared to US				1						
a. <del>Sov</del> US. more maneuverable				1						
b. US odds for aircraft of accomplishing mission higher				1						
c. Sov. flies faster, higher, straighter				1						
d. Sov. less maneuverable.				1						
e. Sov not as successful at NOE travel				1						
f. <sup>Sov has</sup> conservative design				1						
Sov. has conservative design approach				1						
a. steel cables instead of electronic links				1						
b. conventional control surfaces				1						
c. less versatile + precise fire control				1						
US + Sov weaknesses compared				1						
a. US time consuming to produce				1						
b. US some systems still experimental				1						
c. <sup>US</sup> unestablished field condition track record				1						
d. US. erosion some sort of hazard				1						
e. US limited payload				1						

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<u>C. RELATIONSHIPS:</u>										
US + Sov weaknesses compared (cont)				1						
f. Sov. fewer variety of situations				1						
g. Sov. shorter range (significantly)				1						
h. Sov. larger, heavier				1						
i. Sov. brittle construction				1						
j. Sov. high speed can reliability ↑ signature				1						
<del>k. Sov unsoph</del> Sov. unsophisticated avionics				1						
US + Sov strengths compared				1						
a. US systems redundancy ↑ survivability				1						
b. US greater <sup>margin of</sup> performance & reaction				1						
c. US longer range				1						
d. US quieter.				1						
e. US some capabilities + chr. still concealed				1						
f. SOV FASTER				1						
g. Sov. primary controls + systems proven reliable				1						
h. Sov uses components from other aircraft				1						
i. Sov. easier to produce + cheaper				1						
j. Sov less skill to train + fly				1						
k. Sov. larger payload				1						

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 sov stealth

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<u>C. RELATIONSHIPS:</u>										
Aircraft not as fancy as US				1						
a. in design				1						
b. in construction				1						
Aircraft performs in tighter envelope than US				1						
a. less forgiving of mishandling				1						
b. performance limits lower				1						
c. capabilities more limited				1						
d. not as refined in manufacture				1						
e. less attention to detail not directly function related				1						
Aircraft will be kept close to home				1						
Comparison to US aircraft				1						
a. more rigid				1						
b. more metal content				1						
c. signatures greater but still less than norm				1						
d. easier to make lots of aircraft				1						
Designed to reduce signatures				1						
a. <del>cross</del> cross-section				1						
b. density				1						
c. reflective				1						
d. noise				1						
e. heat				1						
f. turbulence				1						
g. deflecting				1						
h. magnetic				1						

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<u>C. RELATIONSHIPS:</u>										
Sov aircraft				1						
a. slopes up from tail to nose				1						
b. rear is close to ground				1						
c. from front has flat appearance.				1						
d. canopy is faceted				1						
e. body elements (wings stabilizers canopy air intake) merge smoothly into fuselage				1						
f. symmetrical top to bottom				1						
g. body flares out, edges rounded				1						
h. wings bulge with thicker part extend				1						
i. Two engines				1						
j. Air coming out cooler than usual				1						
k. iris-type thing at back of engine opens + closes as necessary				1						
l. microprocessor helps aircraft fly				1						
m. weapons are inside				1						