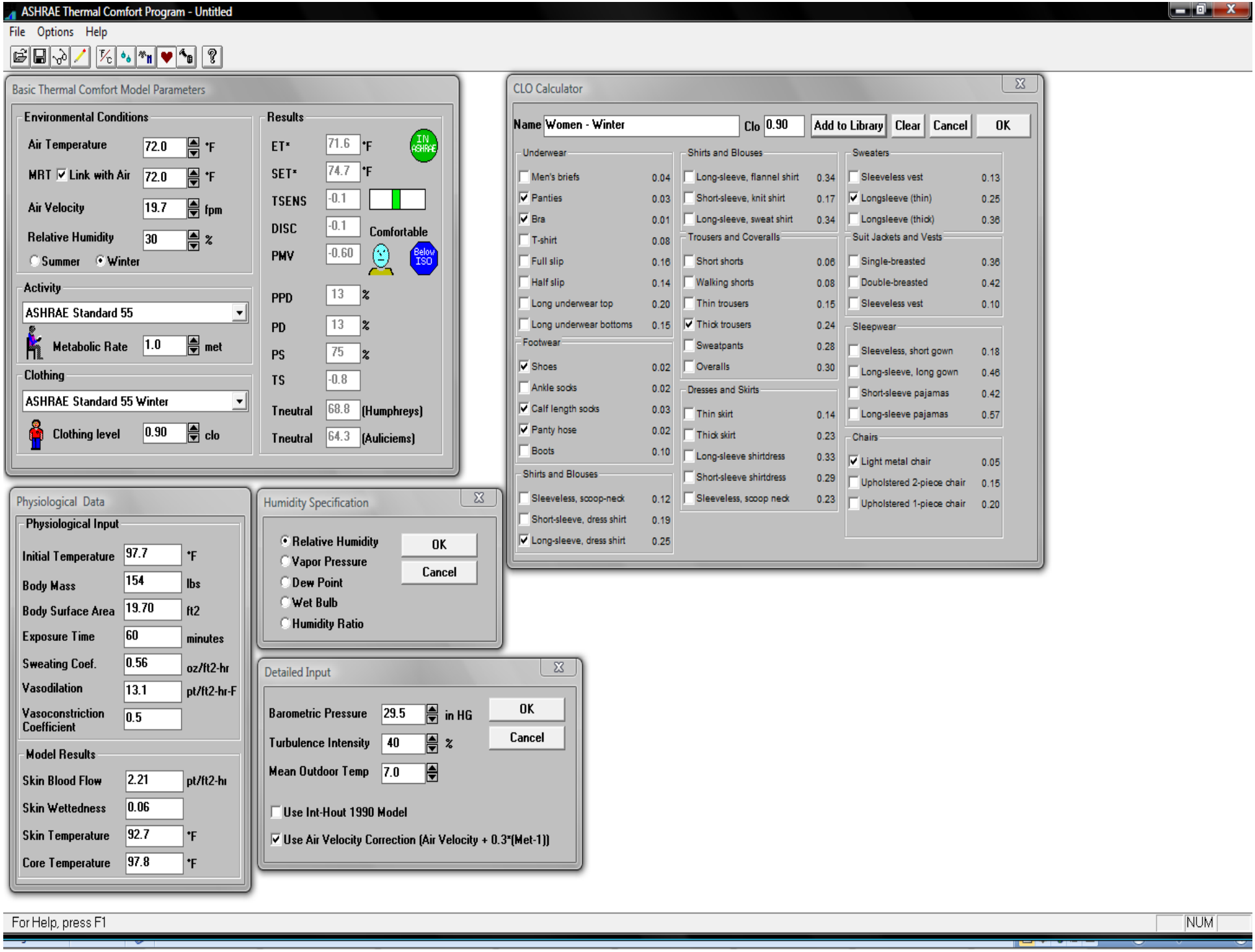
ASHRAE Thermal Comfort Program - Untitled
File Options Help
Basic Thermal Comfort Model Parameters
Environmental Conditions
Air Temperature 72.0 °F
MRT Link with Air 72.0 °F
Air Velocity 19.7 fpm
Relative Humidity 30 %
Summer Winter
Activity
ASHRAE Standard 55
Metabolic Rate 1.0 met
Clothing
ASHRAE Standard 55 Winter
Clothing level 0.90 clo
Results
ET* 71.6 °F
SET* 74.7 °F
TSENS -0.1
DISC -0.1
Comfortable
PMV -0.60
PPD 13 %
PD 13 %
PS 75 %
TS -0.8
Tneutral 68.8 (Humphreys)
Tneutral 64.3 (Auliciems)
IN ASHRAE
Below ISO
CLO Calculator
Name Women - Winter
Clo 0.90
Add to Library
Clear
Cancel
OK
Underwear
Men's briefs 0.04
Panties 0.03
Bra 0.01
T-shirt 0.08
Full slip 0.16
Half slip 0.14
Long underwear top 0.20
Long underwear bottoms 0.15
Footwear
Shoes 0.02
Ankle socks 0.02
Calf length socks 0.03
Panty hose 0.02
Boots 0.10
Shirts and Blouses
Sleeveless, scoop-neck 0.12
Short-sleeve, dress shirt 0.19
Long-sleeve, dress shirt 0.25
Shirts and Blouses
Long-sleeve, flannel shirt 0.34
Short-sleeve, knit shirt 0.17
Long-sleeve, sweat shirt 0.34
Trousers and Coveralls
Short shorts 0.06
Walking shorts 0.08
Thin trousers 0.15
Thick trousers 0.24
Sweatpants 0.28
Overalls 0.30
Dresses and Skirts
Thin skirt 0.14
Thick skirt 0.23
Long-sleeve shirtdress 0.33
Short-sleeve shirtdress 0.29
Sleeveless, scoop neck 0.23
Sweaters
Sleeveless vest 0.13
Longsleeve (thin) 0.25
Longsleeve (thick) 0.36
Suit Jackets and Vests
Single-breasted 0.36
Double-breasted 0.42
Sleeveless vest 0.10
Sleepwear
Sleeveless, short gown 0.18
Long-sleeve, long gown 0.46
Short-sleeve pajamas 0.42
Long-sleeve pajamas 0.57
Chairs
Light metal chair 0.05
Upholstered 2-piece chair 0.15
Upholstered 1-piece chair 0.20
Physiological Data
Physiological Input
Initial Temperature 97.7 °F
Body Mass 154 lbs
Body Surface Area 19.70 ft2
Exposure Time 60 minutes
Sweating Coef. 0.56 oz/ft2-hr
Vasodilation 13.1 pt/ft2-hr-F
Vasoconstriction Coefficient 0.5
Model Results
Skin Blood Flow 2.21 pt/ft2-hr
Skin Wettedness 0.06
Skin Temperature 92.7 °F
Core Temperature 97.8 °F
Humidity Specification
Relative Humidity
Vapor Pressure
Dew Point
Wet Bulb
Humidity Ratio
OK
Cancel
Detailed Input
Barometric Pressure 29.5 in HG
Turbulence Intensity 40 %
Mean Outdoor Temp 7.0
OK
Cancel
Use Int-Hout 1990 Model
Use Air Velocity Correction (Air Velocity + 0.3*(Met-1))
For Help, press F1
NUM