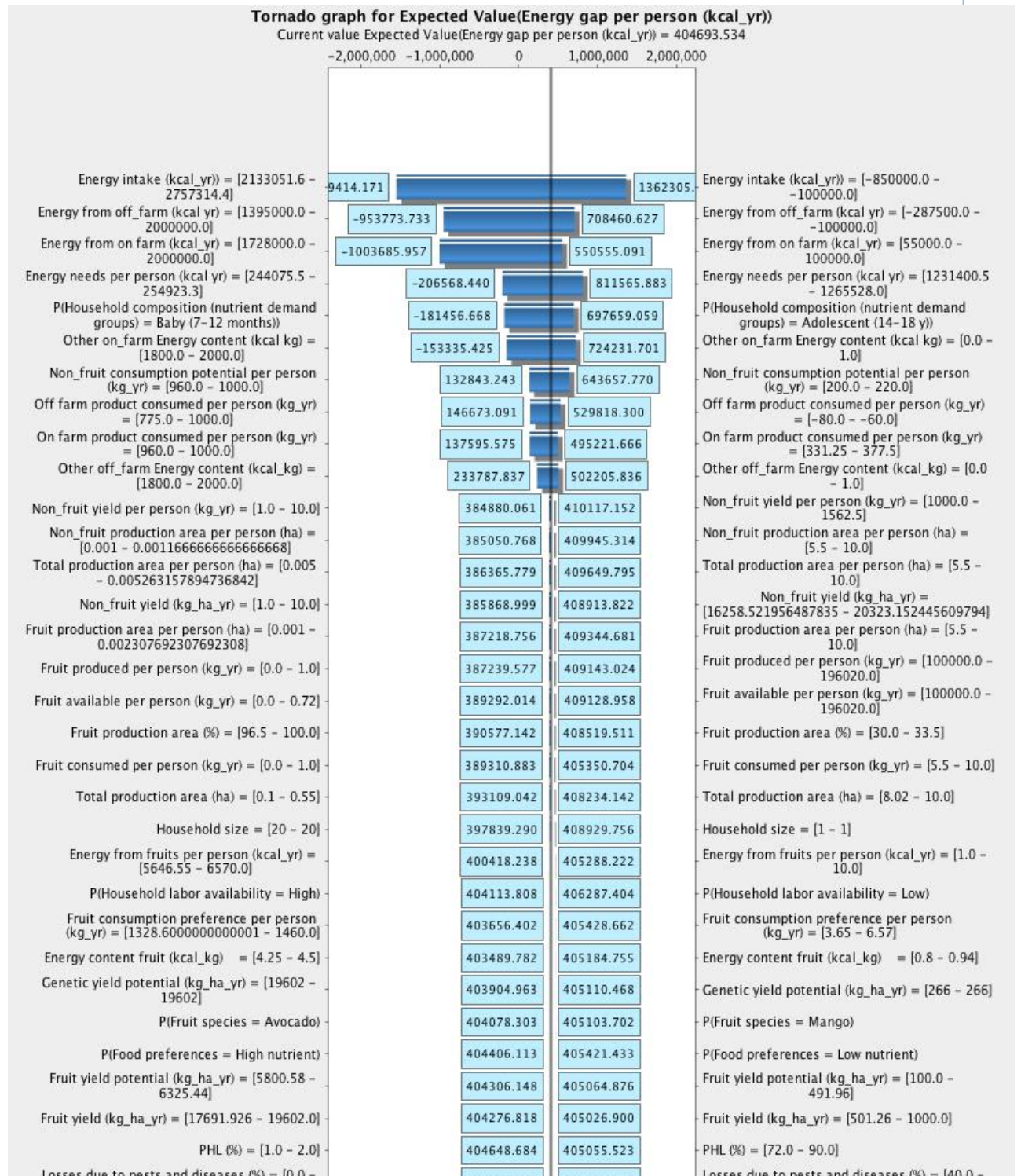
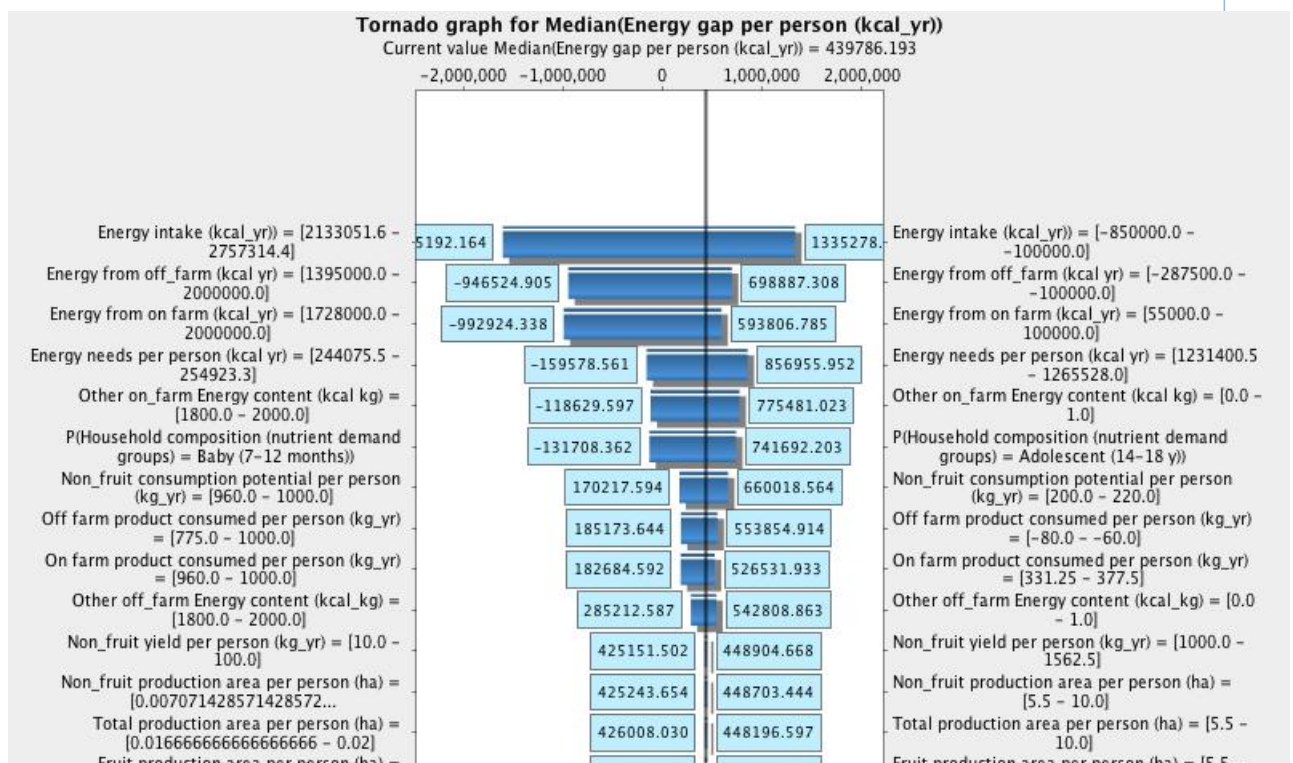


Sensitivity Analysis of Energy gap per person (kcal_yr)

Scenario 1



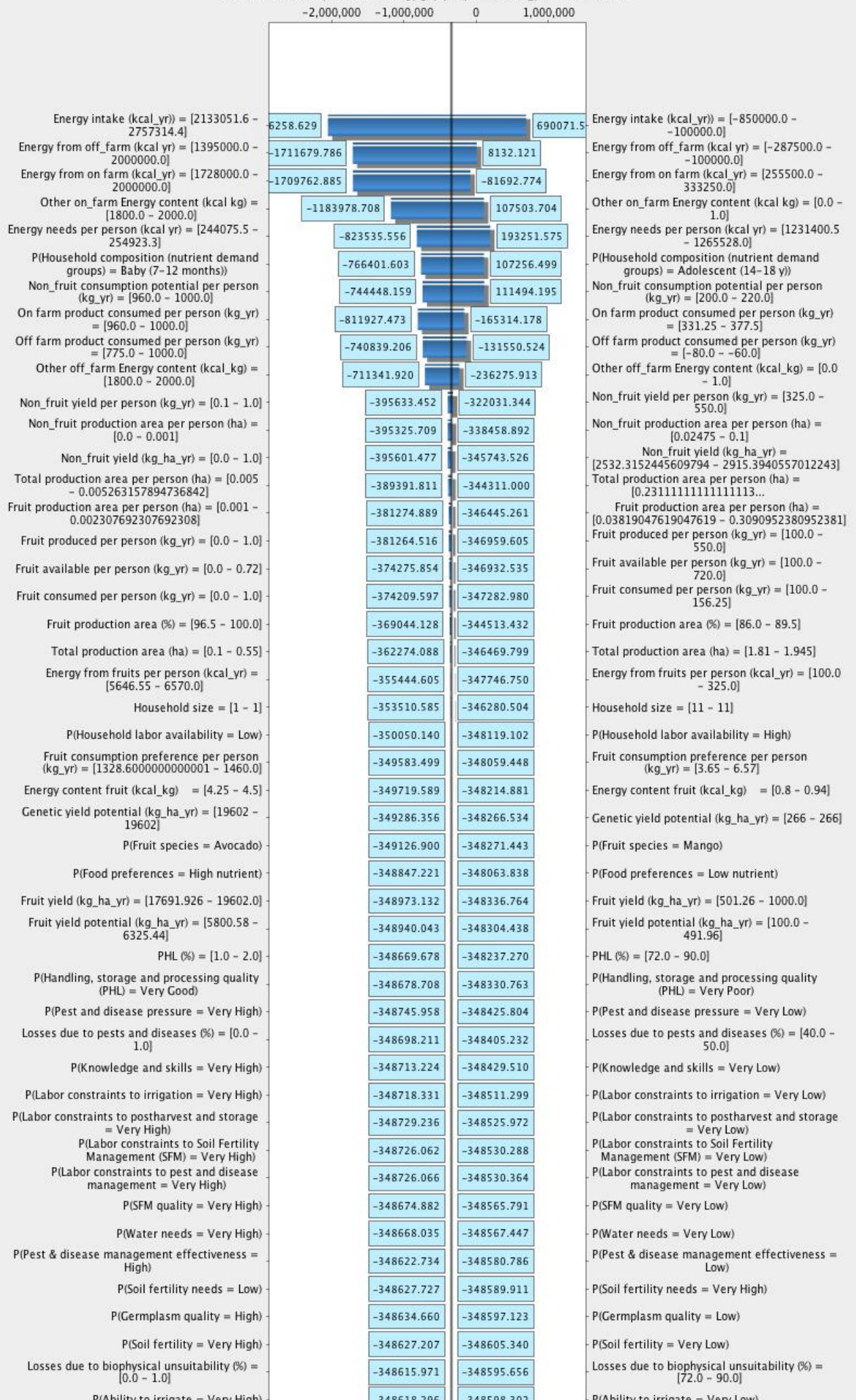
1.0]	404591.014	404982.993	50.0]
P(Pest and disease pressure = Very High)	404536.064	404919.287	P(Pest and disease pressure = Very Low)
P(Knowledge and skills = Very High)	404569.455	404927.370	P(Knowledge and skills = Very Low)
P(Handling, storage and processing quality (PHL) = Very Good)	404642.771	404940.467	P(Handling, storage and processing quality (PHL) = Very Poor)
P(Labor constraints to irrigation = Very Low)	404574.784	404812.231	P(Labor constraints to irrigation = Very High)
P(Labor constraints to Soil Fertility Management (SFM) = Very Low)	404597.703	404820.897	P(Labor constraints to Soil Fertility Management (SFM) = Very High)
P(Labor constraints to pest and disease management = Very Low)	404597.844	404820.980	P(Labor constraints to pest and disease management = Very High)
P(Labor constraints to postharvest and storage = Very Low)	404603.199	404817.285	P(Labor constraints to postharvest and storage = Very High)
P(Water needs = Very High)	404629.286	404749.250	P(Water needs = Very Low)
P(Pest & disease management effectiveness = High)	404673.584	404772.179	P(Pest & disease management effectiveness = Low)
P(Soil fertility needs = Low)	404677.653	404722.893	P(Soil fertility needs = Very High)
P(Germplasm quality = High)	404669.628	404713.068	P(Germplasm quality = Low)
P(Water sufficiency = Very Low)	404672.405	404697.691	P(Water sufficiency = Very High)
Losses due to biophysical unsuitability (%) = [0.0 - 1.0]	404691.715	404715.634	Losses due to biophysical unsuitability (%) = [72.0 - 90.0]
P(Ability to irrigate = Very Low)	404675.115	404697.948	P(Ability to irrigate = Very High)
P(Temperature suitability = High)	404690.604	404709.021	P(Temperature suitability = Very Low)
P(Biophysical suitability = Highly Suitable)	404692.446	404703.627	P(Biophysical suitability = Very Poor)
P(Effect of soil fertility constraints = Very High)	404686.423	404694.999	P(Effect of soil fertility constraints = Very Low)
P(Effect of climatic constraints = Very Low)	404690.524	404696.089	P(Effect of climatic constraints = Very High)
P(SFM quality = Medium)	404691.992	404695.907	P(SFM quality = Very Low)
P(Ability to hire labor = Medium)	404693.173	404696.071	P(Ability to hire labor = High)
P(Water availability = Very Low)	404691.466	404694.097	P(Water availability = Very High)
Annual mean temperatures = [35.0]	404692.955	404694.489	Annual mean temperatures = [10.0]
P(Rainfall regime = Sub-humid)	404692.714	404694.204	P(Rainfall regime = Semi-arid)
P(Farm income = Low)	404693.285	404693.899	P(Farm income = High)
P(Soil fertility = Very High)	404693.304	404693.754	P(Soil fertility = Very Low)
P(Rainfall adequacy = Medium)	404693.409	404693.653	P(Rainfall adequacy = Low)
P(Pest & disease management inputs = Low)	404693.409	404693.636	P(Pest & disease management inputs = Very High)
P(Natural soil fertility = Medium)	404693.471	404693.593	P(Natural soil fertility = High)



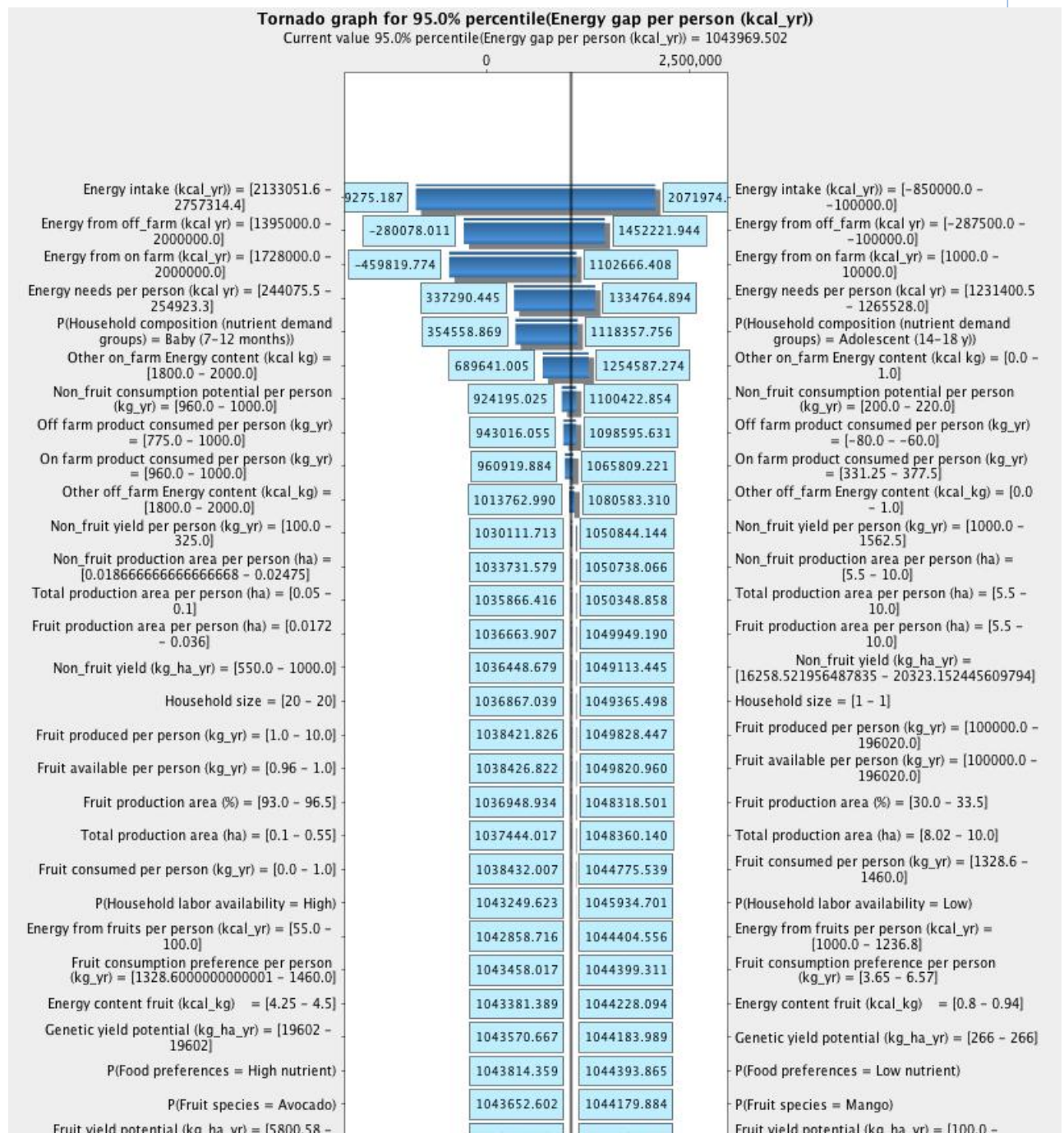
Non production area per person (kg_yr) = [0.00275 - 0.003052631578947368]	425974.491	447677.802	Non production area per person (kg_yr) = [0.00275 - 0.003052631578947368]
Fruit produced per person (kg_yr) = [0.0 - 1.0]	426033.268	447444.088	Fruit produced per person (kg_yr) = [100000.0 - 196020.0]
Non_fruit yield (kg_ha_yr) = [10.0 - 100.0]	425661.465	446717.522	Non_fruit yield (kg_ha_yr) = [16258.521956487835 - 20323.152445609794]
Fruit available per person (kg_yr) = [0.0 - 0.72]	426783.792	447428.487	Fruit available per person (kg_yr) = [100000.0 - 196020.0]
Fruit production area (%) = [96.5 - 100.0]	426862.191	445778.864	Fruit production area (%) = [30.0 - 33.5]
Total production area (ha) = [0.1 - 0.55]	428396.492	445691.347	Total production area (ha) = [8.02 - 10.0]
Household size = [20 - 20]	430683.517	446944.438	Household size = [1 - 1]
Fruit consumed per person (kg_yr) = [0.0 - 1.0]	426790.236	440604.880	Fruit consumed per person (kg_yr) = [5.5 - 10.0]
Energy from fruits per person (kcal_yr) = [5646.55 - 6570.0]	435433.716	440546.145	Energy from fruits per person (kcal_yr) = [1.0 - 10.0]
P(Household labor availability = High)	438860.159	442374.585	P(Household labor availability = Low)
Fruit consumption preference per person (kg_yr) = [1328.6000000000001 - 1460.0]	438551.226	440682.675	Fruit consumption preference per person (kg_yr) = [3.65 - 6.57]
Energy content fruit (kcal_kg) = [4.25 - 4.5]	438337.800	440392.022	Energy content fruit (kcal_kg) = [0.8 - 0.94]
Genetic yield potential (kg_ha_yr) = [19602 - 19602]	438819.221	440299.464	Genetic yield potential (kg_ha_yr) = [266 - 266]
P(Fruit species = Avocado)	439029.872	440290.956	P(Fruit species = Mango)
P(Food preferences = High nutrient)	439434.278	440674.121	P(Food preferences = Low nutrient)
Fruit yield potential (kg_ha_yr) = [5800.58 - 6325.44]	439310.213	440243.665	Fruit yield potential (kg_ha_yr) = [100.0 - 491.96]
Fruit yield (kg_ha_yr) = [17691.926 - 19602.0]	439276.239	440194.286	Fruit yield (kg_ha_yr) = [501.26 - 1000.0]
Losses due to pests and diseases (%) = [0.0 - 1.0]	439660.390	440149.035	Losses due to pests and diseases (%) = [40.0 - 50.0]
PHL (%) = [1.0 - 2.0]	439735.087	440212.164	PHL (%) = [72.0 - 90.0]
P(Pest and disease pressure = Very High)	439592.494	440063.975	P(Pest and disease pressure = Very Low)
P(Knowledge and skills = Very High)	439634.456	440072.239	P(Knowledge and skills = Very Low)
P(Labor constraints to irrigation = Very Low)	439595.878	439976.308	P(Labor constraints to irrigation = Very High)
P(Labor constraints to pest and disease management = Very Low)	439632.284	439991.061	P(Labor constraints to pest and disease management = Very High)
P(Labor constraints to Soil Fertility Management (SFM) = Very Low)	439632.558	439990.981	P(Labor constraints to Soil Fertility Management (SFM) = Very High)
P(Labor constraints to postharvest and storage = Very Low)	439638.756	439986.413	P(Labor constraints to postharvest and storage = Very High)
P(Handling, storage and processing quality (PHL) = Very Good)	439728.437	440066.689	P(Handling, storage and processing quality (PHL) = Very Poor)
P(Water needs = Very High)	439707.265	439855.542	P(Water needs = Very Low)
P(Pest & disease management effectiveness = High)	439759.971	439889.180	P(Pest & disease management effectiveness = Low)
P(Soil fertility needs = Low)	439766.533	439822.304	P(Soil fertility needs = Very High)
P(Germplasm quality = High)	439756.943	439810.037	P(Germplasm quality = Low)
P(Ability to irrigate = Very Low)	439756.626	439793.279	P(Ability to irrigate = Very High)
P(Water sufficiency = Very Low)	439760.396	439791.196	P(Water sufficiency = Very High)
Losses due to biophysical unsuitability (%) = [0.0 - 1.0]	439783.930	439813.246	Losses due to biophysical unsuitability (%) = [72.0 - 90.0]
P(Temperature suitability = High)	439783.141	439805.362	P(Temperature suitability = Very Low)
P(SFM quality = Very Low)	439778.342	439800.001	P(SFM quality = Very High)
P(Biophysical suitability = Highly Suitable)	439784.804	439798.470	P(Biophysical suitability = Very Poor)
P(Effect of soil fertility constraints = Very High)	439778.028	439787.851	P(Effect of soil fertility constraints = Very Low)
P(Effect of climatic constraints = Very Low)	439782.395	439789.052	P(Effect of climatic constraints = Very High)
P(Soil fertility = Very Low)	439784.345	439788.826	P(Soil fertility = Very High)
P(Water availability = Very Low)	439782.999	439787.059	P(Water availability = Very High)
P(Ability to hire labor = Low)	439785.732	439789.300	P(Ability to hire labor = High)
P(Rainfall regime = Sub-humid)	439785.275	439786.843	P(Rainfall regime = Semi-arid)
Annual mean temperatures = [35.0]	439785.483	439787.039	Annual mean temperatures = [10.0]
P(Farm income = Low)	439785.864	439786.632	P(Farm income = High)
P(Rainfall adequacy = Low)	439785.992	439786.373	P(Rainfall adequacy = Very Low)
P(Pest & disease management inputs = Very Low)	439786.112	439786.242	P(Pest & disease management inputs = Medium)
P(Natural soil fertility = Low)	439786.159	439786.272	P(Natural soil fertility = Medium)

Tornado graph for 5.0% percentile (Energy gain per person (kcal_yr))

Current value 5.0% percentile (Energy gap per person (kcal_yr)) = -348614.418



P(Food sufficiency = Very High)	-348616.230	-348638.302	P(Food sufficiency = Very Low)
P(Water sufficiency = Very Low)	-348631.113	-348611.125	P(Water sufficiency = Very High)
P(Temperature suitability = High)	-348616.552	-348601.459	P(Temperature suitability = Very Low)
P(Effect of soil fertility constraints = Very High)	-348622.457	-348612.955	P(Effect of soil fertility constraints = Very Low)
P(Biophysical suitability = Highly Suitable)	-348615.343	-348606.227	P(Biophysical suitability = Very Poor)
P(Effect of climatic constraints = Very Low)	-348616.910	-348612.455	P(Effect of climatic constraints = Very High)
P(Ability to hire labor = Low)	-348614.728	-348612.333	P(Ability to hire labor = High)
P(Water availability = Very High)	-348614.868	-348612.754	P(Water availability = Very Low)
P(Rainfall regime = Sub-humid)	-348615.099	-348613.882	P(Rainfall regime = Semi-arid)
Annual mean temperatures = [35.0]	-348614.920	-348613.756	Annual mean temperatures = [10.0]
P(Farm income = Low)	-348614.652	-348614.116	P(Farm income = High)
P(Rainfall adequacy = Low)	-348614.477	-348614.357	P(Rainfall adequacy = Very Low)
P(Natural soil fertility = Low)	-348614.446	-348614.376	P(Natural soil fertility = Medium)
P(Pest & disease management inputs = Very Low)	-348614.445	-348614.387	P(Pest & disease management inputs = Medium)



6325.44]	1043771.257	1044161.080	491.96]
Fruit yield (kg_ha_yr) = [17691.926 - 19602.0]	1043762.025	1044141.021	- Fruit yield (kg_ha_yr) = [501.26 - 1000.0]
P(Labor constraints to irrigation = Very Low)	1043822.032	1044115.634	- P(Labor constraints to irrigation = Very High)
P(Labor constraints to pest and disease management = Very Low)	1043850.035	1044127.612	- P(Labor constraints to pest and disease management = Very High)
P(Labor constraints to Soil Fertility Management (SFM) = Very Low)	1043850.809	1044127.685	- P(Labor constraints to Soil Fertility Management (SFM) = Very High)
P(Labor constraints to postharvest and storage = Very Low)	1043852.494	1044125.443	- P(Labor constraints to postharvest and storage = Very High)
Losses due to pests and diseases (%) = [0.0 - 1.0]	1043917.581	1044134.504	- Losses due to pests and diseases (%) = [40.0 - 50.0]
P(Knowledge and skills = Very High)	1043901.323	1044099.742	- P(Knowledge and skills = Very Low)
P(Pest and disease pressure = Very High)	1043888.496	1044085.331	- P(Pest and disease pressure = Very Low)
PHL (%) = [1.0 - 2.0]	1043953.881	1044127.372	- PHL (%) = [72.0 - 90.0]
P(Handling, storage and processing quality (PHL) = Very Good)	1043951.727	1044056.017	- P(Handling, storage and processing quality (PHL) = Very Poor)
P(Pest & disease management effectiveness = High)	1043955.223	1044025.200	- P(Pest & disease management effectiveness = Low)
P(Water needs = Very High)	1043936.678	1043999.725	- P(Water needs = Very Low)
P(SFM quality = Very Low)	1043951.447	1043994.768	- P(SFM quality = Very High)
P(Ability to irrigate = Very Low)	1043946.578	1043975.002	- P(Ability to irrigate = Very High)
P(Soil fertility needs = Low)	1043961.083	1043984.569	- P(Soil fertility needs = Very High)
P(Germplasm quality = High)	1043957.466	1043979.127	- P(Germplasm quality = Low)
P(Water sufficiency = Very Low)	1043958.869	1043971.463	- P(Water sufficiency = Very High)
Losses due to biophysical unsuitability (%) = [0.0 - 1.0]	1043968.585	1043980.387	- Losses due to biophysical unsuitability (%) = [72.0 - 90.0]
P(Soil fertility = Very Low)	1043965.791	1043974.621	- P(Soil fertility = Very High)
P(Temperature suitability = High)	1043969.196	1043977.764	- P(Temperature suitability = Very Low)
P(Biophysical suitability = Highly Suitable)	1043968.864	1043974.489	- P(Biophysical suitability = Very Poor)
P(Effect of climatic constraints = Low)	1043967.716	1043970.931	- P(Effect of climatic constraints = High)
P(Effect of soil fertility constraints = Very High)	1043966.854	1043969.984	- P(Effect of soil fertility constraints = Very Low)
P(Water availability = Very Low)	1043967.207	1043970.130	- P(Water availability = Very High)
P(Ability to hire labor = Low)	1043969.247	1043970.787	- P(Ability to hire labor = High)
Annual mean temperatures = [15.0]	1043969.019	1043970.139	- Annual mean temperatures = [20.0]
P(Rainfall adequacy = Low)	1043968.900	1043969.839	- P(Rainfall adequacy = Medium)
P(Pest & disease management inputs = Very High)	1043969.164	1043969.811	- P(Pest & disease management inputs = Low)
P(Rainfall regime = Arid)	1043969.072	1043969.570	- P(Rainfall regime = Humid)
P(Natural soil fertility = High)	1043969.354	1043969.767	- P(Natural soil fertility = Medium)
P(Farm income = Low)	1043969.308	1043969.660	- P(Farm income = High)