Direct costs of meals - Air France current situation and potential savings

Data	Current	Scenario 1	Scenario 2	Scenario 3
Cost of 1 meal for AF ($)	$6,00	$6,00	$6,00	$6,00
Number of meals prepared / passenger	2	1,8	1,7	1,6
Numberb of yearly passengers (long haul)	25 000 000	25 000 000	25 000 000	25 000 000
Direct yearly costs of meals ($)	**$300 000 000,00**	**$270 000 000,00**	**$255 000 000,00**	**$240 000 000,00**
Yearly Savings ($)		**$30 000 000,00**	**$45 000 000,00**	**$60 000 000,00**

Costs of meals in terms of kerozene consumption - Air France current situation and potential savings

Data	Current	Scenario 1	Scenario 2	Scenario 3
Number of meals prepared / passenger	2	1,8	1,7	1,6
Weight of 1 meal (kg)	1	1	1	1
Number of yearly passengers (long haul)	25 000 000	25 000 000	25 000 000	25 000 000
Weight of meals (kg)	**50 000 000,00**	**45 000 000,00**	**42 500 000,00**	**40 000 000,00**
Cost of kerozene ($ per gallon)	$1,60	$1,60	$1,60	$1,60
*Kerozene consumption per flight (6000km) due to 1kg of meals on board (gallon)**	0,4	0,4	0,4	0,4
Cost of meals in terms of kerozene consumption ($)	**$32 000 000,00**	**$28 800 000,00**	**$27 200 000,00**	**$25 600 000,00**
Yearly Savings ($)		**$3 200 000,00**	**$4 800 000,00**	**$6 400 000,00**

Total savings

Data	Current	Scenario 1	Scenario 2	Scenario 3
Direct Costs of meals	$300 000 000,00	$270 000 000,00	$255 000 000,00	$240 000 000,00
Cost of meals in terms of kerozene consumption ($)	$32 000 000,00	$28 800 000,00	$27 200 000,00	$25 600 000,00
Total Costs of meals	**$332 000 000,00**	**$298 800 000,00**	**$282 200 000,00**	**$265 600 000,00**
Total Savings		**$33 200 000,00**	**$49 800 000,00**	**$66 400 000,00**

Return on Investment			
Data	**Scenario 1**	**Scenario 2**	**Scenario 3**
Site development	$15 000,00	$15 000,00	$15 000,00
Site maintenance per year	$20 000,00	$20 000,00	$20 000,00
Wage of the person affected to the service per year	$60 000,00	$60 000,00	$60 000,00
Total Savings per year	$33 200 000,00	$49 800 000,00	$66 400 000,00
Return on Investment- Year 1	**348,5**	**523,2**	**697,9**
Return on Investment - Year 2	**378,4**	**568,1**	**757,9**
Return on Investment- Year 3	**389,6**	**584,9**	**780,2**
Return on Investment - Year 4	**395,4**	**593,6**	**791,8**

domestic flight's meal requires RMB50 (US$7.30)

934-millions-de-passagers-en-2016-5175404.html

company would load twice as much meals in order to
estimation

https://www.eia.gov/dnav/pet/hist/LeafHandler.ashx?n=PET&s=EMA_EPPK_PWG_NUS_DPG&f=M

** found on quora that an 86kg adult represented a fuel consumption of 2-3 liters more per 100km*