

Repercussions of politicized regulation exemplified by compulsory new TC1507-maize 90-day rat feeding study – Supplemental Data

Jason M. Roper^a, Anne B. Carlson^b, Nancy Podevin^c, Yiwei Wang^b, Carey A. Mathesius^{b1}, Rod A. Herman^d

^aCorteva Agriscience, Haskell R&D Center, P.O. Box 20, Newark, DE 19714, USA

^bCorteva Agriscience, 8325 NW 62nd Avenue, Johnston, IA 50131, USA

^cCorteva Agriscience, Rue Montoyer 25, Brussels, Belgium

^dCorteva Agriscience, 9330 Zionsville Road, Indianapolis, IN 46268, USA

Male		Column					
Rack	Row	1	2	3	4	5	6
1	1	X	X	X	X	X	X
	2	4	3	1	6	5	1
	3	Block 1			Block 3		
	4	5	4	6	2	5	4
	5	Block 2			Block 4		
	6	2	1	3	1	3	6
		X	X	X	X	X	X
Female		Column					
Rack	Row	1	2	3	4	5	6
3	1	X	X	X	X	X	X
	2	1	5	2	1	4	2
	3	Block 1			Block 3		
	4	6	4	3	5	6	3
	5	Block 2			Block 4		
	6	3	6	1	5	4	1
		4	2	5	2	3	6
		X	X	X	X	X	X
Male		Column					
Rack	Row	1	2	3	4	5	6
2	1	X	X	X	X	X	X
	2	3	2	4	6	5	2
	3	Block 5			Block 7		
	4	5	6	1	4	3	1
	5	Block 6			Block 8		
	6	1	5	3	5	1	3
		6	4	2	6	2	4
		X	X	X	X	X	X
Female		Column					
Rack	Row	1	2	3	4	5	6
4	1	X	X	X	X	X	X
	2	4	6	5	4	3	2
	3	Block 5			Block 7		
	4	3	2	1	5	1	6
	5	Block 6			Block 8		
	6	1	4	5	5	6	3
		6	3	2	4	1	2
		X	X	X	X	X	X

Figure S1. Arrangement of Cages on Racks

Numbers within each block denote the diet/group code (1-6) for each cage. ‘X’ represents unused but available cage positions.

¹ Corresponding Author: Carey A Mathesius - carey.mathesius@corteva.com

Table S1. Analyzed Nutrient and Contaminant Composition (as-is basis) of Diets Fed to Rodents

Item*	Control	TC1507 High	TC1507 Low	P0760	P0589	XL5840
Proximates, fibers, and carbohydrates, %						
Dry Matter	88.8	89.2	88.4	88.6	87.8	88.6
Crude Protein	19.522	20.141	19.876	20.019	20.052	20.791
Crude Fat	5.67	5.66	5.65	5.76	5.16	5.56
Acid Detergent Fiber	6.05	6.71	5.76	5.57	7.37	6.10
Neutral Detergent Fiber	11.1	12.6	11.8	12.9	12.1	13.4
Crude Fiber	4.25	4.41	4.24	4.12	4.02	3.64
Ash	4.91	5.13	5.29	5.16	4.91	4.93
Carbohydrates	58.7	58.3	57.6	57.6	57.7	57.4
Gross Energy, Kcal/100g	402	403	403	403	398	402
Amino acids, %						
Alanine	0.944	0.919	0.896	0.915	0.970	1.00
Arginine	1.13	1.13	1.14	1.10	1.24	1.19
Aspartic Acid	1.84	1.76	1.81	1.74	1.98	2.06
Cystine	0.223	0.237	0.257	0.252	0.283	0.255
Glutamic Acid	3.35	3.27	3.32	3.29	3.63	3.68
Glycine	0.979	0.933	0.920	0.926	0.992	0.972
Histidine	0.515	0.502	0.515	0.501	0.569	0.519
Isoleucine	0.797	0.754	0.789	0.787	0.850	0.811
Leucine	1.53	1.50	1.52	1.55	1.65	1.62
Lysine	1.16	1.09	1.12	1.08	1.19	1.27
Methionine	0.387	0.404	0.416	0.456	0.486	0.426
Phenylalanine	1.05	1.04	1.04	1.05	1.15	1.07

Item*	Control	TC1507 High	TC1507 Low	P0760	P0589	XL5840
Proline	1.15	1.12	1.14	1.17	1.24	1.23
Serine	0.938	0.920	0.943	0.936	1.05	0.995
Threonine	0.795	0.763	0.779	0.774	0.839	0.835
Tryptophan	0.242	0.241	0.231	0.236	0.246	0.266
Tyrosine	0.505	0.504	0.526	0.525	0.569	0.514
Valine	0.991	0.960	0.979	0.963	1.05	1.03
Minerals, %						
Calcium	1.03	1.22	1.13	1.05	0.959	1.31
Copper	0.000689	0.00141	0.00181	0.000903	0.00146	0.000964
Iron	0.0170	0.0159	0.0158	0.0149	0.0153	0.0187
Magnesium	0.160	0.0171	0.168	0.171	0.170	0.0167
Manganese	0.00730	0.00870	0.00695	0.00650	0.00581	0.00850
Phosphorus	0.645	0.672	0.654	0.644	0.595	0.699
Potassium	0.918	0.946	0.954	0.944	0.962	0.900
Sodium	0.254	0.275	0.261	0.302	0.298	0.321
Zinc	0.00809	0.00860	0.00723	0.00738	0.00646	0.00989
Heavy metals¹, ppm						
Selenium	0.374	0.357	0.316	0.370	0.364	0.440
Cobalt	0.301	0.274	0.312	0.245	0.368	0.304
Chloride	6593	6194	6235	7535	7787	5043
Fluoride	3.74	4.47	4.13	4.72	7.54	6.53
Iodide	1.92	0.899	0.713	0.893	0.741	1.06
Arsenic	0.429	0.486	0.463	0.473	0.328	0.506
Lead	0.175	0.185	0.176	0.156	0.166	0.187

Item*	Control	TC1507 High	TC1507 Low	P0760	P0589	XL5840
Vitamins², mg/100g (unless otherwise indicated)						
Thiamine	0.491	0.431	0.266	0.489	0.476	0.487
Pyridoxine	0.494	0.426	0.632	0.546	0.490	0.499
Riboflavin	0.320	0.312	0.212	0.515	0.415	0.765
Folic acid	0.769	0.460	1.33	1.38	1.30	0.352
Niacin	1.77	10.8	1.70	1.55	11.0	3.73
Pantothenic acid	1.54	1.32	0.989	2.65	2.07	1.52
Beta carotene, IU/100g	69.0	68.5	68.7	67.3	73.5	61.5
Total tocopherols	6.89	6.73	6.40	5.87	5.86	6.30
Alpha tocopherol	1.03	1.12	1.02	0.808	0.839	1.26
Beta tocopherol	0.282	0.346	0.266	0.246	0.248	0.294
Gamma tocopherol	4.28	4.05	3.95	3.62	3.61	3.48
Delta tocopherol	1.30	1.21	1.16	1.20	1.16	1.27
Vitamin A (as retinol), IU RE/100g	216	91.2	367	2493	331	1424
Vitamin B12	0.00387	0.00526	0.00620	0.00471	0.00199	0.00444
Biotin	0.0595	0.0738	0.0440	0.0377	0.0577	0.0626
Choline	197	154	143	170	156	154
Isoflavones³, mg/kg						
Daidzin	206	250	256	215	257	219
Glycitin	47.5	54.0	61.1	39.5	79.4	48.1
Genistin	246	281	292	270	315	271
Daidzein	13.2	11.9	13.8	20.5	31.6	17.5
Genistein	9.58	11.3	12.4	12.6	14.0	14.5

Item*	Control	TC1507 High	TC1507 Low	P0760	P0589	XL5840
Mycotoxins⁴, ppm (unless otherwise indicated)						
T-2 Toxin	<1	0.00806	<1	<1	<1	<1
Zearalenone (ppb)	1<4	10.3	7.12	8.64	6.10	5.75
Fumonisin B1	0.335	2.69	1.26	3.25	6.36	2.16
Fumonisin B2	0.102	0.500	0.254	0.454	1.50	0.305
Fumonisin B3	0.0382	0.234	0.113	0.220	0.542	0.122
Moniliformin	0.350	0.06<0.2	<0.06	0.06<0.2	0.311	0.268
Pesticides⁵ and PCBs⁶, ppm						
Malathion	0.0194	0.003<0.01	0.003<0.01	0.0130	0.0169	0.0112

* P0760, P0589 and XL5840 are commercial reference maize line groups

¹ Heavy metals cadmium, chromium, and mercury were below their respective limit of detection for all diets.

² Vitamin D3 was below the limit of detection for all diets.

³ The isoflavone glycitein was below the limit of detection for all diets.

⁴ The following mycotoxins were below the limit of detection or between the limit of detection and below the limit of quantification for all diets: aflatoxin B1, B2, G1, and G2, ochratoxin A, cyclopiazonic acid, deoxynivalenol (DON) 3/15-acetyl-DON, ergosine, ergotamine, ergocornine, ergocryptine, ergocristine, and oosporein.

⁵ Pesticides (alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, HCB, diazinon, disulfoton, heptachlor, aldrin, heptachlor epoxide, Endosulfan I, Endosulfan II, Endosulfan Sulfate, endrin, 4,4'-DDE, dieldrin, 4,4'-DDD, 4,4'-DDT, carbophenothion (Trithion), ethion, ethyl parathion, methyl parathion, phorate, mirex, methoxychlor, cis-chlordane, and trans-chlordane) were below the limit of detection or between the limit of detection and below the limit of quantification for all diets.

⁶ All PCBs were the below the limits of detection for all diets.

Table S2. Body Weight (BW) and Body Weight Gain (BWG) Summary

	Gender	Statistical Parameter	Control	TC1507 High	TC1507 Low	P0760	P0589	XL5840
BW: DAY 1 ^a	Female	Mean	183.4	182.8	181.3	182.8	184.3	184.4
		95% CI	173.7 - 194.3	173.1 - 193.5	171.8 - 191.9	--	--	--
		Range	162.4 - 205.3	159.8 - 216.3	162.3 - 201.5	162.0 - 199.4	166.3 - 202.1	162.2 - 204.5
	Male	Mean	248.7	249.3	246.5	252.3	252.2	250.4
		95% CI	231.4 - 268.7	231.9 - 269.4	229.5 - 266.2	--	--	--
		Range	215.1 - 292.1	214.3 - 281.9	205.9 - 277.5	221.0 - 280.8	221.5 - 287.2	223.2 - 283.3
BW: DAY 8	Female	Mean	205.6	203.4	204.6	204.8	208.3	207.9
		95% CI	190.3 - 220.9	188.1 - 218.7	189.3 - 219.9	--	--	--
		Range	180.4 - 237.7	180.1 - 242.5	180.2 - 232.2	168.6 - 225.7	177.3 - 237.4	183.9 - 242.9
	Male	Mean	311.5	307.9	308.7	316.2	314.9	309.9
		95% CI	296.2 - 326.8	292.6 - 323.2	293.4 - 324.0	--	--	--
		Range	270.7 - 364.4	269.6 - 341.6	261.4 - 345.2	265.9 - 354.2	275.6 - 345.8	277.9 - 344.1
BW: DAY 15 ^a	Female	Mean	220.1	220.2	220.8	224.9	226.7	227.8
		95% CI	206.3 - 234.4	206.4 - 234.5	206.9 - 235.1	--	--	--
		Range	188.8 - 240.7	194.6 - 253.4	187.7 - 259.1	189.4 - 243.1	183.5 - 266.3	200.8 - 264.8
	Male	Mean	365.0	359.0	359.8	371.8	369.3	366.1
		95% CI	347.1 - 383.4	341.3 - 377.2	342.0 - 378.0	--	--	--
		Range	319.2 - 411.2	318.8 - 401.4	309.3 - 398.9	309.1 - 418.3	324.5 - 415.8	317.5 - 408.1
BW: DAY 22	Female	Mean	232.9	237.3	238.5	234.5	241.1	241.6
		95% CI	217.9 - 247.8	222.3 - 252.2	223.5 - 253.4	--	--	--
		Range	209.1 - 260.4	212.1 - 272.3	199.9 - 282.5	199.8 - 258.4	195.6 - 265.0	209.2 - 280.8
	Male	Mean	413.3	402.8	404.7	419.9	412.7	413.9
		95% CI	397.0 - 429.7	386.5 - 419.2	388.3 - 421.0	--	--	--
		Range	362.7 - 461.4	358.3 - 448.3	353.6 - 456.3	350.4 - 470.4	357.7 - 474.2	349.8 - 453.7

	Gender	Statistical Parameter	Control	TC1507 High	TC1507 Low	P0760	P0589	XL5840
BW: DAY 29	Female	Mean	243.8	247.4	247.4	246.6	255.7	255.8
		95% CI	227.6 - 260.1	231.1 - 263.6	231.1 - 263.6	--	--	--
		Range	216.5 - 276.2	215.6 - 290.5	213.4 - 304.5	205.6 - 274.3	205.8 - 299.1	221.5 - 287.9
	Male	Mean	446.6	435.3	437.2	456.7	449.3	448.0
		95% CI	429.1 - 464.0	417.8 - 452.8	419.7 - 454.7	--	--	--
		Range	390.6 - 497.8	392.2 - 485.5	392.8 - 490.7	372.7 - 516.7	385.7 - 527.0	369.1 - 489.4
BW: DAY 36	Female	Mean	257.3	260.8	264.0	260.2	265.4	269.2
		95% CI	242.1 - 272.4	245.7 - 275.9	248.9 - 279.1	--	--	--
		Range	222.4 - 285.8	231.7 - 296.0	228.4 - 319.0	210.6 - 289.3	216.4 - 303.1	220.0 - 305.7
	Male	Mean	476.5	464.5	468.1	487.1	481.1	478.9
		95% CI	457.8 - 495.3	445.7 - 483.2	449.4 - 486.9	--	--	--
		Range	417.1 - 543.9	415.6 - 516.8	422.0 - 529.7	401.8 - 555.3	419.0 - 564.6	389.8 - 525.2
BW: DAY 43	Female	Mean	261.2	261.7	266.6	268.3	271.5	270.4
		95% CI	246.7 - 275.7	247.2 - 276.2	252.1 - 281.2	--	--	--
		Range	224.1 - 286.1	229.4 - 299.3	223.5 - 319.4	216.7 - 298.5	213.7 - 320.1	225.5 - 307.2
	Male	Mean	500.8	484.0	487.9	513.0	503.7	501.1
		95% CI	480.4 - 521.3	463.6 - 504.4	467.5 - 508.3	--	--	--
		Range	433.6 - 575.9	432.8 - 543.0	439.8 - 560.5	427.4 - 597.9	432.8 - 596.7	413.0 - 551.8
BW: DAY 50	Female	Mean	268.2	273.5	277.1	276.8	280.6	281.7
		95% CI	253.2 - 283.3	258.4 - 288.5	262.1 - 292.1	--	--	--
		Range	233.4 - 300.8	242.0 - 314.0	231.8 - 338.9	230.4 - 308.2	234.5 - 317.6	234.1 - 324.9
	Male	Mean	523.5	506.0	514.2	539.7	527.6	527.8
		95% CI	502.5 - 544.5	485.1 - 527.0	493.2 - 535.2	--	--	--
		Range	454.7 - 608.4	446.1 - 574.5	450.8 - 590.1	450.9 - 642.2	455.0 - 626.6	428.6 - 586.3
BW: DAY 57	Female	Mean	275.7	279.7	282.4	280.8	287.3	285.1

	Gender	Statistical Parameter	Control	TC1507 High	TC1507 Low	P0760	P0589	XL5840
		95% CI	258.5 - 292.9	262.5 - 296.9	265.2 - 299.6	--	--	--
		Range	244.4 - 310.3	244.4 - 341.2	245.2 - 365.4	235.9 - 333.0	241.5 - 327.1	224.5 - 332.7
	Male	Mean	541.2	520.6	529.1	558.7	545.7	544.8
		95% CI	519.4 - 563.0	498.8 - 542.4	507.3 - 550.9	--	--	--
		Range	472.6 - 635.1	458.2 - 592.2	459.9 - 601.8	472.1 - 660.0	469.1 - 645.6	447.5 - 592.9
BW: DAY 64	Female	Mean	281.1	291.2	289.5	292.0	292.5	290.7
		95% CI	263.6 - 298.6	273.7 - 308.6	272.0 - 307.0	--	--	--
		Range	239.7 - 312.7	254.4 - 377.3	249.0 - 357.7	232.9 - 351.8	246.5 - 338.0	235.9 - 329.7
	Male	Mean	557.3	540.4	547.7	576.2	561.7	559.8
		95% CI	535.1 - 579.5	518.2 - 562.6	525.5 - 569.9	--	--	--
		Range	486.6 - 641.1	471.8 - 614.8	476.8 - 626.3	485.1 - 690.5	477.0 - 668.9	463.6 - 612.9
BW: DAY 71	Female	Mean	285.9	290.2	293.2	294.5	298.4	295.5
		95% CI	268.5 - 303.2	272.9 - 307.5	275.8 - 310.5	--	--	--
		Range	239.5 - 314.2	238.9 - 356.6	248.9 - 377.5	243.9 - 343.2	244.1 - 357.4	237.8 - 336.6
	Male	Mean	573.0	556.1	561.8	595.0	577.2	585.1 ^b
		95% CI	549.8 - 596.1	532.9 - 579.2	538.7 - 585.0	--	--	--
		Range	495.2 - 668.4	481.6 - 630.0	490.6 - 641.8	501.2 - 719.4	495.4 - 697.9	543.0 - 635.3
BW: DAY 78	Female	Mean	288.8	292.5	294.0	296.8	300.0	297.2
		95% CI	272.3 - 305.4	275.9 - 309.0	277.4 - 310.5	--	--	--
		Range	253.5 - 318.0	248.5 - 347.7	243.7 - 370.1	251.9 - 338.7	249.9 - 341.4	240.1 - 340.8
	Male	Mean	584.6	566.8	571.1	604.8	592.9	593.5 ^b
		95% CI	561.0 - 608.3	543.2 - 590.4	547.4 - 594.7	--	--	--
		Range	501.3 - 688.5	489.2 - 650.6	494.1 - 650.8	513.5 - 740.6	511.0 - 716.8	548.3 - 647.9
BW: DAY 85	Female	Mean	294.0	292.5	296.5	297.6	305.0	302.4
		95% CI	277.1 - 310.9	275.6 - 309.4	279.7 - 313.4	--	--	--

	Gender	Statistical Parameter	Control	TC1507 High	TC1507 Low	P0760	P0589	XL5840
		Range	261.1 - 327.6	254.1 - 348.9	249.9 - 369.9	259.6 - 330.8	244.1 - 345.7	240.5 - 347.7
	Male	Mean	591.8	576.5	580.8	618.5	602.8	608.6 ^b
		95% CI	568.4 - 615.2	553.1 - 600.0	557.4 - 604.3	--	--	--
		Range	507.2 - 696.2	503.0 - 664.0	503.8 - 661.6	517.2 - 759.4	515.6 - 731.2	555.3 - 665.6
BW: DAY 91	Female	Mean	294.3	295.9	300.6	303.3	304.5	302.8
		95% CI	277.9 - 310.6	279.5 - 312.3	284.2 - 317.0	--	--	--
		Range	244.5 - 319.7	246.4 - 344.2	254.8 - 362.0	250.5 - 359.6	256.3 - 357.9	247.9 - 349.6
	Male	Mean	602.5	580.5	586.1	624.6	608.9	616.4 ^b
		95% CI	577.7 - 627.4	555.6 - 605.3	561.3 - 610.9	--	--	--
		Range	513.7 - 717.7	498.5 - 663.5	506.2 - 668.9	520.3 - 779.6	521.2 - 741.5	560.3 - 665.7
		Body Weight Gain (BWG)						
BWG: DAY 1- DAY 8	Female	Mean	21.5	19.6	22.4	22.0	24.0	23.5
		95% CI	17.8 - 25.2	15.9 - 23.3	18.7 - 26.1	--	--	--
		Range	-2.0 - 32.4	8.7 - 26.2	13.9 - 38.9	6.6 - 36.6	11.0 - 36.7	6.9 - 38.4
	Male	Mean	60.9	57.3	60.2	63.8	62.7	59.5
		95% CI	57.5 - 64.4	53.8 - 60.8	56.8 - 63.7	--	--	--
		Range	37.9 - 74.5	48.0 - 67.3	46.2 - 76.5	44.9 - 73.4	49.6 - 75.5	50.5 - 73.3
BWG: DAY 8- DAY 15	Female	Mean	14.8	17.2	16.7	20.1	18.4	19.9
		95% CI	10.2 - 19.3	12.6 - 21.7	12.1 - 21.2	--	--	--
		Range	3.0 - 24.2	3.4 - 36.8	2.2 - 27.3	11.0 - 30.7	-0.4 - 32.2	3.4 - 36.4
	Male	Mean	54.0	51.4	51.5	55.7	54.4	56.1
		95% CI	50.3 - 57.7	47.7 - 55.1	47.8 - 55.2	--	--	--
		Range	42.8 - 70.6	40.4 - 70.8	41.9 - 61.4	43.2 - 69.5	29.9 - 70.0	36.5 - 72.3

	Gender	Statistical Parameter	Control	TC1507 High	TC1507 Low	P0760	P0589	XL5840
BWG: DAY 15- DAY 22*	Female	Mean	12.5	16.7	17.2	9.6	14.4	13.8
		95% CI	8.8 - 16.2	13.0 - 20.4	13.5 - 20.9	--	--	--
		Range	-1.9 - 22.2	3.6 - 30.3	2.1 - 25.6	-1.4 - 21.9	-1.3 - 28.8	-2.6 - 21.1
	Male	Mean	47.8	43.5	44.4	48.1	43.4	47.8
		95% CI	44.1 - 51.5	39.8 - 47.2	40.7 - 48.1	--	--	--
		Range	33.7 - 64.1	34.4 - 55.7	37.3 - 60.4	39.5 - 59.6	29.2 - 59.4	32.3 - 60.6
BWG: DAY 22- DAY 29	Female	Mean	11.0	10.1	8.9	12.2	14.7	14.2
		95% CI	6.0 - 16.0	5.1 - 15.1	3.9 - 13.9	--	--	--
		Range	-9.7 - 23.0	-3.9 - 23.5	-3.0 - 22.0	-8.3 - 24.0	2.4 - 34.1	2.3 - 27.3
	Male	Mean	33.2	32.5	32.5	36.8	36.7	34.1
		95% CI	30.5 - 35.9	29.8 - 35.1	29.9 - 35.2	--	--	--
		Range	24.2 - 47.5	17.3 - 46.3	26.4 - 39.4	22.3 - 53.4	21.0 - 52.8	19.3 - 41.8
BWG: DAY 29- DAY 36	Female	Mean	13.4	13.5	16.6	13.5	9.7	13.4
		95% CI	10.0 - 16.9	10.0 - 16.9	13.2 - 20.1	--	--	--
		Range	0.3 - 25.9	-6.1 - 28.6	8.4 - 25.1	1.9 - 30.2	-4.6 - 23.8	-1.5 - 26.5
	Male	Mean	30.0	29.1	31.0	30.4	31.8	30.9
		95% CI	26.5 - 33.4	25.7 - 32.6	27.5 - 34.4	--	--	--
		Range	14.2 - 46.7	14.2 - 45.9	22.6 - 42.6	18.3 - 42.9	22.0 - 39.6	20.7 - 39.1
BWG: DAY 36- DAY 43	Female	Mean	4.0	0.8	2.7	8.1	6.0	1.2
		95% CI	-0.1 - 8.1	-3.3 - 4.9	-1.4 - 6.8	--	--	--
		Range	-9.1 - 20.9	-12.4 - 12.3	-14.0 - 11.8	2.2 - 20.7	-6.8 - 18.8	-10.3 - 12.9
	Male	Mean	24.3	19.5	19.8	25.9	22.6	22.2
		95% CI	20.2 - 28.4	15.4 - 23.6	15.7 - 23.9	--	--	--
		Range	8.2 - 41.9	9.8 - 29.5	6.6 - 30.8	16.9 - 44.5	6.9 - 32.1	11.4 - 31.3

	Gender	Statistical Parameter	Control	TC1507 High	TC1507 Low	P0760	P0589	XL5840
BWG: DAY 43- DAY 50	Female	Mean	7.0	11.8	10.4	8.5	9.1	11.3
		95% CI	1.5 - 12.5	6.3 - 17.3	5.0 - 15.9	--	--	--
		Range	-4.1 - 24.1	-10.7 - 24.5	-12.0 - 26.5	-4.1 - 24.5	-5.3 - 23.9	0.0 - 21.0
	Male	Mean	22.6	22.1	26.3	26.7	23.8	26.8
		95% CI	19.8 - 25.5	19.2 - 24.9	23.4 - 29.1	--	--	--
		Range	13.1 - 34.4	13.3 - 34.7	11.0 - 35.5	12.0 - 44.3	12.0 - 38.3	13.9 - 35.9
BWG: DAY 50- DAY 57	Female	Mean	7.5	6.2	5.3	4.0	6.7	3.5
		95% CI	1.5 - 13.5	0.2 - 12.2	-0.7 - 11.3	--	--	--
		Range	-8.8 - 13.2	-6.7 - 27.2	-16.7 - 26.5	-14.5 - 30.1	-10.2 - 16.6	-9.6 - 17.5
	Male	Mean	17.7	14.6	14.9	19.0	18.1	17.0
		95% CI	14.9 - 20.5	11.8 - 17.4	12.1 - 17.7	--	--	--
		Range	8.8 - 27.9	6.3 - 26.1	1.9 - 31.0	8.3 - 24.2	8.7 - 28.9	5.3 - 28.7
BWG: DAY 57- DAY 64	Female	Mean	5.4	11.5**!	7.1	11.2	5.2	5.5
		95% CI	2.2 - 8.6	8.3 - 14.6	4.0 - 10.3	--	--	--
		Range	-7.3 - 24.9	-2.6 - 36.1	-7.7 - 21.0	-3.0 - 22.6	-3.7 - 15.5	-11.2 - 15.7
	Male	Mean	16.1	19.8!	18.6	17.5	16.1	15.0
		95% CI	13.5 - 18.8	17.1 - 22.5	16.0 - 21.3	--	--	--
		Range	6.0 - 28.2	13.2 - 29.6	11.2 - 27.8	3.8 - 30.5	7.5 - 26.8	0.0 - 20.8
BWG: DAY 64- DAY 71	Female	Mean	4.8	-1.0**	3.7	2.5	5.9	4.8
		95% CI	1.6 - 8.0	-4.2 - 2.2	0.5 - 6.9	--	--	--
		Range	-9.3 - 18.5	-20.7 - 12.6	-3.3 - 19.8	-11.5 - 13.8	-8.4 - 22.3	-3.3 - 13.6
	Male	Mean	15.7	15.6	14.1	18.8	15.4	18.9 ^b
		95% CI	12.5 - 18.9	12.5 - 18.8	10.9 - 17.3	--	--	--
		Range	-1.2 - 27.3	6.2 - 26.2	6.6 - 24.5	12.9 - 28.9	-3.4 - 29.0	7.8 - 26.1

	Gender	Statistical Parameter	Control	TC1507 High	TC1507 Low	P0760	P0589	XL5840
BWG: DAY 71- DAY 78	Female	Mean	3.0	2.3	0.8	2.3	1.7	1.7
		95% CI	-1.3 - 7.2	-2.0 - 6.5	-3.5 - 5.1	--	--	--
		Range	-10.9 - 14.6	-10.1 - 12.8	-13.0 - 13.1	-11.6 - 15.1	-16.0 - 16.4	-12.9 - 14.7
	Male	Mean	11.7	10.8	9.2	9.9	15.7	8.4 ^b
		95% CI	9.3 - 14.1	8.4 - 13.1	6.9 - 11.6	--	--	--
		Range	5.8 - 20.1	2.4 - 20.6	-5.2 - 18.5	-4.7 - 30.0	0.5 - 24.4	-8.5 - 19.7
BWG: DAY 78- DAY 85	Female	Mean	5.2	0.0**	2.5	0.9	4.9	5.2
		95% CI	1.7 - 8.6	-3.4 - 3.4	-0.9 - 6.0	--	--	--
		Range	-7.5 - 16.7	-15.8 - 14.0	-10.9 - 15.4	-11.6 - 10.3	-5.8 - 17.3	-8.4 - 15.3
	Male	Mean	7.2	9.7	9.8	13.7	10.0	15.2 ^b
		95% CI	3.8 - 10.6	6.3 - 13.2	6.3 - 13.2	--	--	--
		Range	0.4 - 15.3	-4.2 - 20.8	-0.3 - 22.1	-1.2 - 25.5	-4.9 - 18.1	7.0 - 30.2
BWG: DAY 85- DAY 91*	Female	Mean	0.3	3.4	4.1	5.7	-0.5	0.4
		95% CI	-5.1 - 5.6	-1.9 - 8.7	-1.3 - 9.4	--	--	--
		Range	-16.9 - 18.0	-16.5 - 21.2	-15.5 - 23.6	-9.1 - 28.8	-22.2 - 12.6	-15.1 - 19.6
	Male	Mean	10.7	3.9**	5.3	6.1	6.1	7.8 ^b
		95% CI	6.6 - 14.8	-0.2 - 8.0	1.2 - 9.4	--	--	--
		Range	1.2 - 21.5	-8.4 - 16.5	-7.2 - 17.5	-1.9 - 20.2	-2.5 - 22.2	-1.4 - 22.2
BWG: DAY 1- DAY 91	Female	Mean	110.2	112.1	118.4	120.5	120.1	118.4
		95% CI	100.7 - 119.7	102.6 - 121.6	108.9 - 127.9	--	--	--
		Range	82.1 - 139.0	75.5 - 128.3	87.5 - 168.7	86.9 - 173.8	86.4 - 157.2	77.4 - 165.5
	Male	Mean	352.0	329.8	337.6	372.3	356.7	364.7 ^b
		95% CI	328.7 - 375.3	306.6 - 353.1	314.3 - 360.9	--	--	--
		Range	274.5 - 466.8	272.2 - 413.5	258.6 - 417.1	281.9 - 498.8	270.3 - 471.2	307.2 - 421.7

Note: Units of measure for BW and BWG are grams. P0760, P0589 and XL5840 are commercial reference maize line groups. When a reported statistic was estimated to be $< 10^{-10}$ in absolute value, the value was set to zero.

^aTest and control data were transformed prior to analysis. The means are presented on the data scale (back-transformed), confidence interval (CI) are presented on the transformed scale. Reference arithmetic means were calculated from the raw data.

^bn=15, otherwise n=16

*Sex X Treatment interaction statistically significant at the 0.05 level

**Statistically significant difference when compared to control at the 0.05 level; FDR not significantly different

! Combined statistically significant difference when compared to combined control at the 0.05 level; combined FDR not significantly different

Table S3. Food Consumption (FC) and Food Efficiency (FE) Summary

	Gender	Statistical Parameter	Control	TC1507 High	TC1507 Low	P0760	P0589	XL5840
FC: DAY 1- DAY 8	Female	Mean	18.8	18.0	18.9	20.3	19.6	17.4
		95% CI	17.2 - 20.3	16.5 - 19.6	17.4 - 20.5	--	--	--
		Range	17.7 - 20.4	16.4 - 19.8	15.5 - 24.5	16.8 - 22.6	17.4 - 24.3	15.2 - 20.6
	Male	Mean	25.7	25.4	25.3	26.1	26.4	25.7
		95% CI	24.5 - 27.0	24.2 - 26.6	24.1 - 26.5	--	--	--
		Range	22.4 - 27.7	23.5 - 27.2	22.4 - 28.4	22.2 - 27.9	23.8 - 28.4	24.0 - 28.7
FC: DAY 8- DAY 15^a	Female	Mean	18.2	19.4	18.9	19.8	20.1	18.4
		95% CI	17.0 - 19.6	18.0 - 21.0	17.6 - 20.5	--	--	--
		Range	15.7 - 19.9	17.6 - 21.5	15.7 - 25.7	16.8 - 23.1	18.7 - 23.4	15.9 - 23.3
	Male	Mean	27.4	26.6	26.3	27.8	27.2	27.2
		95% CI	25.7 - 29.3	25.0 - 28.4	24.8 - 28.1	--	--	--
		Range	24.3 - 30.3	24.3 - 30.1	24.0 - 33.5	23.1 - 31.0	25.7 - 29.9	24.4 - 30.0
FC: DAY 15- DAY 22^a	Female	Mean	19.0	19.0	19.4	20.6	20.9	19.3
		95% CI	17.5 - 20.9	17.4 - 20.8	17.7 - 21.3	--	--	--
		Range	17.3 - 24.9	15.3 - 21.7	16.8 - 27.0	16.9 - 24.0	18.8 - 23.5	16.3 - 22.9
	Male	Mean	28.5	27.6	27.4	28.6	28.9	29.5
		95% CI	26.5 - 30.9	25.7 - 29.8	25.6 - 29.6	--	--	--
		Range	24.4 - 31.7	24.8 - 32.7	25.0 - 37.0	24.0 - 33.3	26.9 - 31.6	26.0 - 32.4
FC: DAY 22- DAY 29	Female	Mean	19.0	20.0	19.6	21.1	21.2	19.5
		95% CI	17.1 - 20.9	18.1 - 21.9	17.7 - 21.5	--	--	--
		Range	16.3 - 23.2	16.5 - 22.9	18.1 - 21.9	16.3 - 24.5	18.7 - 24.0	17.0 - 25.1
	Male	Mean	29.3	29.2	28.2	29.3	28.9	30.5
		95% CI	27.5 - 31.2	27.3 - 31.1	26.4 - 30.1	--	--	--
		Range	26.6 - 32.2	26.1 - 33.3	24.9 - 36.7	23.7 - 31.7	26.7 - 33.5	26.2 - 35.5

	Gender	Statistical Parameter	Control	TC1507 High	TC1507 Low	P0760	P0589	XL5840
FC: DAY 29- DAY 36	Female	Mean	19.4	20.2	19.4	21.3	20.6	20.1
		95% CI	17.8 - 21.0	18.6 - 21.8	17.8 - 21.0	--	--	--
		Range	16.9 - 23.8	16.7 - 22.1	17.1 - 23.7	16.1 - 24.9	18.9 - 22.5	15.8 - 24.1
	Male	Mean	29.2	28.1	28.1	29.5	29.5	29.4
		95% CI	27.5 - 30.8	26.5 - 29.7	26.4 - 29.7	--	--	--
		Range	26.4 - 32.9	24.9 - 31.2	24.4 - 33.5	24.1 - 33.7	26.8 - 32.7	25.4 - 32.5
FC: DAY 36- DAY 43	Female	Mean	19.7	22.1	20.0	20.9	21.6	19.6
		95% CI	17.5 - 22.0	19.9 - 24.4	17.8 - 22.3	--	--	--
		Range	17.1 - 23.5	16.5 - 27.7	17.9 - 22.7	16.9 - 22.9	19.7 - 24.7	15.9 - 22.2
	Male	Mean	29.8	28.8	28.8	30.0	29.9	29.7
		95% CI	27.5 - 32.0	26.5 - 31.0	26.5 - 31.0	--	--	--
		Range	27.9 - 35.2	24.4 - 31.9	24.5 - 34.4	23.9 - 33.2	26.7 - 34.8	26.5 - 34.4
FC: DAY 43- DAY 50	Female	Mean	19.3	20.9	21.5	20.4	20.9	20.0
		95% CI	16.3 - 22.3	17.8 - 23.9	18.5 - 24.5	--	--	--
		Range	16.6 - 24.5	17.1 - 26.6	17.3 - 32.6	17.6 - 23.4	19.6 - 22.4	15.7 - 25.9
	Male	Mean	29.7	27.8	29.3	30.0	29.5	31.0
		95% CI	27.5 - 31.9	25.6 - 30.0	27.1 - 31.5	--	--	--
		Range	26.8 - 32.3	25.1 - 33.1	23.7 - 37.1	24.2 - 33.9	26.7 - 35.3	25.2 - 38.4
FC: DAY 50- DAY 57	Female	Mean	18.4	19.9**	19.7**	18.5	21.3	19.9
		95% CI	16.9 - 19.8	18.4 - 21.3	18.3 - 21.2	--	--	--
		Range	17.1 - 21.4	17.2 - 22.6	17.3 - 22.2	16.1 - 20.8	18.7 - 23.7	14.5 - 28.5
	Male	Mean	30.9	29.1	29.7	30.6	28.7	30.8
		95% CI	28.5 - 33.3	26.7 - 31.5	27.3 - 32.1	--	--	--
		Range	24.8 - 35.3	26.5 - 32.9	26.1 - 39.3	24.2 - 36.0	25.8 - 31.4	24.0 - 38.3

	Gender	Statistical Parameter	Control	TC1507 High	TC1507 Low	P0760	P0589	XL5840
FC: DAY 57- DAY 64	Female	Mean	18.8	19.7	19.9	19.2	21.0	18.4
		95% CI	16.8 - 20.9	17.7 - 21.8	17.9 - 22.0	--	--	--
		Range	16.0 - 22.6	17.1 - 25.8	16.9 - 24.4	14.6 - 24.0	18.4 - 23.6	15.0 - 23.9
	Male	Mean	27.9	29.5	28.8	30.3	30.2	30.8
		95% CI	25.8 - 29.9	27.5 - 31.6	26.7 - 30.8	--	--	--
		Range	24.5 - 32.0	26.4 - 34.2	24.1 - 33.3	25.5 - 33.9	26.3 - 34.0	26.8 - 35.9
FC: DAY 64- DAY 71	Female	Mean	18.9	19.8	18.5	20.0	21.2	18.2
		95% CI	16.6 - 21.3	17.4 - 22.1	16.1 - 20.8	--	--	--
		Range	15.6 - 25.8	14.8 - 25.2	16.0 - 21.9	16.0 - 28.4	18.4 - 23.8	14.8 - 23.2
	Male	Mean	30.6	29.3	27.7**	31.0	31.6	31.6 ^b
		95% CI	28.3 - 33.0	27.0 - 31.7	25.4 - 30.0	--	--	--
		Range	22.9 - 37.3	26.3 - 33.0	23.4 - 32.0	24.8 - 37.0	25.9 - 38.8	25.2 - 37.0
FC: DAY 71- DAY 78	Female	Mean	19.1	19.5	19.9	18.5	20.7	18.5
		95% CI	16.5 - 21.6	16.9 - 22.1	17.3 - 22.5	--	--	--
		Range	16.4 - 26.2	16.0 - 24.6	17.4 - 24.8	15.8 - 21.5	18.6 - 24.3	15.2 - 22.2
	Male	Mean	30.2	28.8	30.8	32.0	32.1	32.7 ^b
		95% CI	27.6 - 32.8	26.2 - 31.4	28.2 - 33.4	--	--	--
		Range	22.2 - 37.3	25.6 - 31.9	24.5 - 38.3	27.7 - 37.6	26.4 - 38.7	26.9 - 37.8
FC: DAY 78- DAY 85	Female	Mean	19.3	18.3	18.4	18.5	20.0	18.9
		95% CI	17.0 - 21.6	16.0 - 20.6	16.2 - 20.7	--	--	--
		Range	15.5 - 24.0	15.4 - 22.8	15.5 - 25.1	15.4 - 21.8	18.0 - 24.3	15.0 - 24.3
	Male	Mean	28.8	29.5	26.6	28.5	28.8	29.6 ^b
		95% CI	26.5 - 31.1	27.2 - 31.8	24.3 - 28.8	--	--	--
		Range	24.0 - 31.9	22.8 - 33.8	23.0 - 31.4	24.0 - 33.2	25.8 - 34.7	24.9 - 36.5

	Gender	Statistical Parameter	Control	TC1507 High	TC1507 Low	P0760	P0589	XL5840
FC: DAY 85- DAY 91	Female	Mean	16.8	17.4	17.8	16.3	18.5	16.7
		95% CI	14.7 - 19.0	15.3 - 19.5	15.6 - 19.9	--	--	--
		Range	15.2 - 21.0	14.9 - 22.9	13.4 - 23.3	14.3 - 21.1	14.8 - 24.0	14.0 - 19.6
	Male	Mean	28.9	28.2	26.4	27.9	28.2	28.2 ^b
		95% CI	26.8 - 31.1	26.0 - 30.3	24.3 - 28.5	--	--	--
		Range	25.4 - 33.7	24.6 - 32.8	23.2 - 31.0	24.1 - 34.6	25.8 - 33.3	25.0 - 36.4
FC: DAY 1- DAY 91	Female	Mean	18.9	19.6	19.4	19.6	20.6	18.8
		95% CI	17.3 - 20.5	18.0 - 21.2	17.8 - 21.1	--	--	--
		Range	17.0 - 23.0	16.6 - 23.1	17.0 - 24.0	16.5 - 21.8	19.4 - 21.8	15.8 - 22.9
	Male	Mean	29.0	28.3	28.0	29.4	29.2	30.1 ^b
		95% CI	27.4 - 30.6	26.7 - 29.9	26.4 - 29.6	--	--	--
		Range	25.5 - 31.4	26.0 - 30.5	24.6 - 33.8	24.8 - 31.9	27.0 - 32.2	26.9 - 33.2
Food Efficiency (FE)								
FE: DAY 1- DAY 8	Female	Mean	0.164	0.156	0.173	0.159	0.177	0.191
		95% CI	0.133 - 0.195	0.125 - 0.187	0.142 - 0.204	--	--	--
		Range	0.089 - 0.217	0.108 - 0.204	0.086 - 0.244	0.079 - 0.264	0.086 - 0.264	0.161 - 0.237
	Male	Mean	0.339	0.323	0.340	0.349	0.341	0.332
		95% CI	0.322 - 0.355	0.306 - 0.340	0.324 - 0.357	--	--	--
		Range	0.292 - 0.360	0.263 - 0.368	0.328 - 0.368	0.321 - 0.373	0.255 - 0.386	0.293 - 0.363
FE: DAY 8- DAY 15	Female	Mean	0.115	0.127	0.127	0.146	0.132	0.156
		95% CI	0.078 - 0.152	0.090 - 0.163	0.090 - 0.164	--	--	--
		Range	0.068 - 0.153	0.064 - 0.251	0.052 - 0.200	0.108 - 0.178	0.069 - 0.212	0.091 - 0.225
	Male	Mean	0.281	0.275	0.278	0.287	0.285	0.296
		95% CI	0.264 - 0.298	0.258 - 0.292	0.261 - 0.295	--	--	--
		Range	0.237 - 0.335	0.256 - 0.310	0.238 - 0.311	0.254 - 0.316	0.240 - 0.314	0.269 - 0.342

	Gender	Statistical Parameter	Control	TC1507 High	TC1507 Low	P0760	P0589	XL5840
FE: DAY 15- DAY 22	Female	Mean	0.096	0.124	0.129	0.067	0.099	0.102
		95% CI	0.059 - 0.133	0.087 - 0.161	0.092 - 0.166	--	--	--
		Range	0.008 - 0.133	0.089 - 0.183	0.064 - 0.193	0.030 - 0.091	0.058 - 0.152	0.064 - 0.134
	Male	Mean	0.238	0.224	0.231	0.241	0.214	0.233
		95% CI	0.218 - 0.259	0.203 - 0.244	0.210 - 0.251	--	--	--
		Range	0.194 - 0.275	0.191 - 0.253	0.169 - 0.277	0.201 - 0.263	0.160 - 0.251	0.192 - 0.270
FE: DAY 22- DAY 29	Female	Mean	0.079	0.069	0.065	0.078	0.097	0.106
		95% CI	0.039 - 0.120	0.029 - 0.109	0.025 - 0.105	--	--	--
		Range	-0.002 - 0.133	0.000 - 0.116	0.006 - 0.130	-0.011 - 0.127	0.036 - 0.170	0.063 - 0.162
	Male	Mean	0.163	0.160	0.166	0.179	0.181	0.162
		95% CI	0.146 - 0.179	0.144 - 0.177	0.150 - 0.183	--	--	--
		Range	0.113 - 0.195	0.129 - 0.180	0.130 - 0.194	0.146 - 0.231	0.145 - 0.222	0.125 - 0.193
FE: DAY 29- DAY 36	Female	Mean	0.099	0.095	0.123	0.092	0.067	0.095
		95% CI	0.075 - 0.122	0.071 - 0.118	0.100 - 0.147	--	--	--
		Range	0.076 - 0.130	0.033 - 0.154	0.089 - 0.162	0.044 - 0.170	0.014 - 0.122	0.059 - 0.144
	Male	Mean	0.147	0.147	0.159	0.147	0.154	0.152
		95% CI	0.130 - 0.163	0.131 - 0.164	0.142 - 0.175	--	--	--
		Range	0.126 - 0.192	0.097 - 0.177	0.140 - 0.193	0.120 - 0.176	0.143 - 0.177	0.129 - 0.197
FE: DAY 36- DAY 43	Female	Mean	0.030	0.006	0.021	0.056	0.041	0.008
		95% CI	-0.001 - 0.061	-0.025 - 0.037	-0.010 - 0.052	--	--	--
		Range	-0.022 - 0.112	-0.046 - 0.071	-0.035 - 0.056	0.029 - 0.089	0.003 - 0.114	-0.036 - 0.047
	Male	Mean	0.117	0.097	0.099	0.123	0.107	0.107
		95% CI	0.096 - 0.137	0.077 - 0.117	0.079 - 0.120	--	--	--
		Range	0.074 - 0.161	0.061 - 0.128	0.047 - 0.129	0.077 - 0.163	0.071 - 0.142	0.080 - 0.133

	Gender	Statistical Parameter	Control	TC1507 High	TC1507 Low	P0760	P0589	XL5840
FE: DAY 43- DAY 50	Female	Mean	0.052	0.085	0.069	0.061	0.063	0.079
		95% CI	0.010 - 0.093	0.044 - 0.127	0.027 - 0.111	--	--	--
		Range	-0.014 - 0.106	-0.008 - 0.165	-0.067 - 0.128	0.020 - 0.110	-0.009 - 0.126	0.040 - 0.106
	Male	Mean	0.109	0.114	0.128**	0.128	0.116	0.124
		95% CI	0.096 - 0.123	0.100 - 0.127	0.115 - 0.141	--	--	--
		Range	0.079 - 0.133	0.079 - 0.130	0.109 - 0.158	0.058 - 0.183	0.085 - 0.160	0.102 - 0.151
FE: DAY 50- DAY 57	Female	Mean	0.058	0.039	0.038	0.029	0.043	0.026
		95% CI	0.016 - 0.100	-0.003 - 0.081	-0.004 - 0.080	--	--	--
		Range	-0.002 - 0.084	-0.042 - 0.107	-0.045 - 0.147	-0.104 - 0.080	-0.066 - 0.104	-0.022 - 0.089
	Male	Mean	0.083	0.071	0.073	0.090	0.090	0.079
		95% CI	0.069 - 0.096	0.058 - 0.085	0.060 - 0.087	--	--	--
		Range	0.040 - 0.100	0.046 - 0.087	0.049 - 0.102	0.061 - 0.124	0.063 - 0.123	0.054 - 0.103
FE: DAY 57- DAY 64	Female	Mean	0.041	0.083**!	0.051	0.085	0.036	0.042
		95% CI	0.020 - 0.063	0.061 - 0.105	0.029 - 0.073	--	--	--
		Range	0.023 - 0.083	0.036 - 0.132	-0.004 - 0.092	0.026 - 0.156	0.010 - 0.075	-0.021 - 0.095
	Male	Mean	0.082	0.097!	0.093	0.083	0.077	0.070
		95% CI	0.069 - 0.095	0.084 - 0.110	0.080 - 0.106	--	--	--
		Range	0.050 - 0.110	0.068 - 0.131	0.067 - 0.117	0.052 - 0.113	0.052 - 0.118	0.045 - 0.098
FE: DAY 64- DAY 71	Female	Mean	0.037	-0.003**	0.029	0.019	0.042	0.039
		95% CI	0.011 - 0.063	-0.029 - 0.024	0.003 - 0.056	--	--	--
		Range	-0.006 - 0.114	-0.073 - 0.064	-0.009 - 0.073	-0.046 - 0.094	-0.027 - 0.103	-0.008 - 0.079
	Male	Mean	0.075	0.076	0.074	0.088	0.071	0.085 ^b
		95% CI	0.060 - 0.089	0.062 - 0.091	0.060 - 0.088	--	--	--
		Range	0.020 - 0.107	0.063 - 0.087	0.050 - 0.110	0.062 - 0.109	0.004 - 0.117	0.052 - 0.116

	Gender	Statistical Parameter	Control	TC1507 High	TC1507 Low	P0760	P0589	XL5840
FE: DAY 71- DAY 78	Female	Mean	0.024	0.019	0.006	0.016	0.011	0.014
		95% CI	-0.009 - 0.057	-0.014 - 0.051	-0.027 - 0.039	--	--	--
		Range	-0.054 - 0.074	-0.038 - 0.069	-0.071 - 0.094	-0.029 - 0.088	-0.022 - 0.033	-0.038 - 0.080
	Male	Mean	0.054	0.054	0.043	0.045	0.070	0.035 ^b
		95% CI	0.044 - 0.065	0.044 - 0.064	0.032 - 0.053	--	--	--
		Range	0.039 - 0.062	0.022 - 0.086	0.034 - 0.054	-0.011 - 0.107	0.043 - 0.094	-0.018 - 0.070
FE: DAY 78- DAY 85	Female	Mean	0.038	-0.001	0.019	0.004	0.032	0.040
		95% CI	0.011 - 0.066	-0.028 - 0.027	-0.008 - 0.047	--	--	--
		Range	-0.050 - 0.074	-0.061 - 0.073	-0.055 - 0.064	-0.063 - 0.063	-0.031 - 0.100	0.013 - 0.078
	Male	Mean	0.036	0.048	0.051	0.067	0.049	0.072 ^b
		95% CI	0.019 - 0.053	0.031 - 0.064	0.035 - 0.068	--	--	--
		Range	0.005 - 0.056	0.006 - 0.088	0.010 - 0.087	0.030 - 0.110	0.007 - 0.098	0.044 - 0.116
FE: DAY 85- DAY 91	Female	Mean	0.002	0.035	0.035	0.051	-0.010	0.005
		95% CI	-0.052 - 0.056	-0.019 - 0.089	-0.019 - 0.089	--	--	--
		Range	-0.087 - 0.185	-0.112 - 0.121	-0.068 - 0.096	-0.062 - 0.205	-0.138 - 0.072	-0.037 - 0.123
	Male	Mean	0.061	0.023**	0.034	0.034	0.035	0.050 ^b
		95% CI	0.036 - 0.086	-0.002 - 0.048	0.009 - 0.059	--	--	--
		Range	0.031 - 0.106	-0.030 - 0.059	-0.033 - 0.109	0.000 - 0.079	0.008 - 0.067	-0.008 - 0.085
FE: DAY 1- DAY 91	Female	Mean	0.065	0.064	0.069	0.068	0.065	0.070
		95% CI	0.057 - 0.073	0.056 - 0.072	0.061 - 0.077	--	--	--
		Range	0.050 - 0.081	0.050 - 0.075	0.041 - 0.085	0.050 - 0.086	0.050 - 0.081	0.056 - 0.080
	Male	Mean	0.135	0.129	0.135	0.141	0.136	0.134 ^b
		95% CI	0.127 - 0.143	0.121 - 0.137	0.127 - 0.142	--	--	--
		Range	0.106 - 0.152	0.115 - 0.138	0.114 - 0.155	0.117 - 0.162	0.111 - 0.150	0.119 - 0.153

Note: Unit of measure for food consumption is g/day. P0760, P0589 and XL5840 are commercial reference maize line groups. When a reported statistic was estimated to be $< 10^{-10}$ in absolute value, the value was set to zero.

^a Test and control data were transformed prior to analysis. The means are presented on the data scale (back-transformed), confidence interval (CI) are presented on the transformed scale. Reference arithmetic means were calculated from the raw data.

^bn=7, otherwise n=8

**Statistically significant difference when compared to control at the 0.05 level; FDR not significantly different

! Combined statistically significant difference when compared to combined control at the 0.05 level; combined FDR not significantly different

Table S4. Functional Observational Battery (FOB) Score and Number of Animals Per Diet Group (Week 13)

	Gender	Score	Control	TC1507 High	TC1507 Low	P0760	P0589	XL5840
Righting Reflex	Female	Present	16	16	16	16	16	16
	Male		16	16	16	16	16	15
Approach & Touch	Female	Normal	16	16	16	16	16	16
	Male		16	16	16	16	16	15
Auditory Stimulus	Female	Normal	16	16	16	16	16	16
	Male		16	16	16	16	16	15
Tail Pinch	Female	Normal	16	16	16	16	16	16
	Male		16	16	16	16	16	15
Pupillary Response	Female	Present	16	16	16	16	16	16
	Male		16	16	16	16	16	15
Diarrhea	Female	Absent	16	16	16	16	16	16
	Male		16	16	16	16	16	15
Polyuria	Female	Absent	16	16	16	16	16	16
	Male		16	16	16	16	16	15

Table S5. Neurobehavioral Summary – Week 13

	Gender	Statistical Parameter	Control	TC1507 High	TC1507 Low	P0760	P0589	XL5840 ^a
Forelimb Grip Strength (kg)	Female	Mean	1.01	0.93!	0.99	1.08	1.07	1.00
		95% CI	0.87 - 1.15	0.79 - 1.07	0.85 - 1.13	--	--	--
		Range	0.59 - 1.46	0.41 - 1.31	0.57 - 1.37	0.67 - 1.48	0.57 - 1.37	0.58 - 1.51
	Male	Mean	1.52	1.29**!	1.38	1.45	1.36	1.34
		95% CI	1.38 - 1.66	1.15 - 1.43	1.24 - 1.52	--	--	--
		Range	1.03 - 2.11	0.96 - 1.81	0.88 - 1.96	0.58 - 2.23	0.92 - 1.76	0.81 - 1.93
Hindlimb Grip Strength (kg)	Female	Mean	0.79	0.78	0.78	0.84	0.76	0.79
		95% CI	0.72 - 0.87	0.71 - 0.86	0.71 - 0.85	--	--	--
		Range	0.61 - 1.04	0.54 - 1.09	0.59 - 1.11	0.61 - 1.06	0.52 - 1.11	0.57 - 1.13
	Male	Mean	1.01	0.98	0.96	1.01	1.00	0.93
		95% CI	0.93 - 1.08	0.91 - 1.05	0.89 - 1.04	--	--	--
		Range	0.71 - 1.39	0.71 - 1.31	0.71 - 1.22	0.58 - 1.39	0.66 - 1.40	0.67 - 1.20
Movement Duration Interval 1 (sec)	Female	Mean	356	338	329	342	342	331
		95% CI	335 - 377	317 - 359	307 - 350	--	--	--
		Range	170 - 430	254 - 407	250 - 430	250 - 434	240 - 450	249 - 405
	Male	Mean	323	348	340	357	341	341
		95% CI	302 - 345	327 - 370	318 - 361	--	--	--
		Range	278 - 406	245 - 402	243 - 395	299 - 419	222 - 399	279 - 408
Movement Duration Interval 2 (sec)	Female	Mean	249	237	223	262	278	246
		95% CI	203 - 294	192 - 283	177 - 269	--	--	--
		Range	29 - 358	147 - 410	1 - 418	185 - 373	188 - 410	106 - 394
	Male	Mean	203	205	241	222	223	220
		95% CI	160 - 246	162 - 248	198 - 284	--	--	--
		Range	85 - 297	64 - 305	130 - 320	55 - 339	64 - 315	120 - 326

	Gender	Statistical Parameter	Control	TC1507 High	TC1507 Low	P0760	P0589	XL5840 ^a
Movement Duration Interval 3 (sec)	Female	Mean	224	180	210	244	224	198
		95% CI	180 - 268	135 - 224	166 - 254	--	--	--
		Range	3 - 374	51 - 326	93 - 373	122 - 368	3 - 427	21 - 308
	Male	Mean	162	153	200	194	206	218
		95% CI	117 - 206	109 - 197	156 - 244	--	--	--
		Range	74 - 235	6 - 304	63 - 286	70 - 293	50 - 288	6 - 379
Movement Duration Interval 4* (sec)	Female	Mean	230	171	204	187	216	197
		95% CI	186 - 273	127 - 215	160 - 247	--	--	--
		Range	80 - 369	22 - 364	20 - 333	20 - 344	57 - 334	30 - 283
	Male	Mean	107	159	179**	130	185	183
		95% CI	63 - 151	115 - 203	135 - 223	--	--	--
		Range	0 - 310	12 - 296	12 - 304	0 - 254	26 - 300	5 - 266
Movement Duration Interval 5* (sec)	Female	Mean	225	187	189	219	202	221
		95% CI	185 - 264	147 - 226	149 - 229	--	--	--
		Range	18 - 346	72 - 311	29 - 442	31 - 480	0 - 343	128 - 296
	Male	Mean	120	154	191**	102	128	168
		95% CI	81 - 160	115 - 194	151 - 230	--	--	--
		Range	0 - 303	5 - 265	28 - 284	4 - 232	1 - 270	15 - 297
Movement Duration Interval 6 (sec)	Female	Mean	211	196	173	227	230	218
		95% CI	178 - 244	163 - 229	140 - 206	--	--	--
		Range	49 - 287	67 - 313	1 - 392	17 - 378	120 - 417	47 - 332
	Male	Mean	109	132	149	103	111	126
		95% CI	56 - 162	79 - 185	96 - 201	--	--	--
		Range	0 - 323	7 - 257	11 - 296	0 - 265	0 - 327	3 - 320

	Gender	Statistical Parameter	Control	TC1507 High	TC1507 Low	P0760	P0589	XL5840 ^a
Movement Duration Total* (sec)	Female	Mean	1494	1309	1327	1481	1492	1412
		95% CI	1342 - 1646	1157 - 1461	1176 - 1479	--	--	--
		Range	918 - 2049	735 - 1853	769 - 2052	1012 - 1965	1062 - 2195	1086 - 1815
	Male	Mean	1024	1152	1298**	1107	1192	1255
		95% CI	872 - 1176	1000 - 1304	1146 - 1450	--	--	--
		Range	579 - 1433	730 - 1537	608 - 1657	772 - 1585	552 - 1541	591 - 1772
Number of Movements Interval 1 (Count)	Female	Mean	427	391	386	375	415	347
		95% CI	355 - 498	319 - 462	314 - 457	--	--	--
		Range	104 - 707	154 - 562	227 - 834	154 - 602	230 - 769	184 - 543
	Male	Mean	162	209**	197	179	183	183
		95% CI	134 - 189	182 - 237	170 - 224	--	--	--
		Range	77 - 245	109 - 377	101 - 297	90 - 303	56 - 303	71 - 330
Number of Movements Interval 2 ^b (Count)	Female	Mean	183	171	152	215	244	194
		95% CI	118 - 262	109 - 248	93 - 225	--	--	--
		Range	8 - 519	33 - 729	0 - 496	104 - 366	81 - 714	6 - 458
	Male	Mean	59	66	89	64	85	72
		95% CI	36 - 89	41 - 97	60 - 125	--	--	--
		Range	1 - 132	5 - 140	24 - 198	2 - 164	0 - 181	11 - 162
Number of Movements Interval 3 ^b (Count)	Female	Mean	139	110	130	185	188	144
		95% CI	72 - 229	51 - 191	65 - 218	--	--	--
		Range	0 - 393	1 - 369	5 - 350	5 - 358	0 - 836	2 - 312
	Male	Mean	51	32	57	40	72	85
		95% CI	27 - 83	14 - 59	31 - 90	--	--	--
		Range	10 - 125	0 - 123	16 - 124	1 - 118	3 - 170	0 - 218

	Gender	Statistical Parameter	Control	TC1507 High	TC1507 Low	P0760	P0589	XL5840 ^a
Number of Movements Interval 4 ^b (Count)	Female	Mean	157	101	130	127	158	140
		95% CI	92 - 239	51 - 168	72 - 205	--	--	--
		Range	3 - 610	0 - 336	0 - 402	0 - 438	6 - 498	2 - 257
	Male	Mean	13	38	56**	37	76	66
		95% CI	3 - 29	18 - 64	32 - 87	--	--	--
		Range	0 - 136	0 - 125	0 - 167	0 - 127	0 - 197	0 - 177
Number of Movements Interval 5 ^{b*} (Count)	Female	Mean	169	144	124	181	172	203
		95% CI	122 - 224	101 - 195	84 - 171	--	--	--
		Range	0 - 446	17 - 412	0 - 539	0 - 691	0 - 520	5 - 377
	Male	Mean	24	42	68**	37	55	68
		95% CI	8 - 46	20 - 71	39 - 104	--	--	--
		Range	0 - 148	0 - 170	0 - 156	0 - 243	0 - 158	0 - 153
Number of Movements Interval 6 ^b (Count)	Female	Mean	162	151	96	191	197	192
		95% CI	111 - 222	102 - 210	58 - 144	--	--	--
		Range	22 - 297	15 - 457	0 - 463	0 - 387	64 - 364	1 - 349
	Male	Mean	16	31	38	39	40	37
		95% CI	3 - 38	12 - 60	16 - 70	--	--	--
		Range	0 - 98	0 - 162	0 - 190	0 - 140	0 - 167	0 - 145
Number of Movements Total ^{b*} (Count)	Female	Mean	1262	1106	1047	1273	1375	1219
		95% CI	1026 - 1552	899 - 1360	851 - 1288	--	--	--
		Range	601 - 2561	452 - 2491	576 - 2388	796 - 2176	601 - 3614	693 - 1756
	Male	Mean	359	467	528**	396	511	511
		95% CI	292 - 441	380 - 575	430 - 650	--	--	--
		Range	155 - 676	252 - 776	232 - 895	202 - 971	101 - 878	111 - 917

Note: P0760, P0589 and XL5840 are commercial reference maize line groups. When a reported statistic was estimated to be $< 10^{-10}$ in absolute value, the value was set to zero.

^an=15 males only, otherwise n=16

^b Test and control data were transformed prior to analysis. The means are presented on the data scale (back-transformed), confidence interval (CI) are presented on the transformed scale. Reference arithmetic means were calculated from the raw data.

*Sex X Treatment interaction statistically significant at the 0.05 level

**Statistically significant difference when compared to control at the 0.05 level; FDR not significantly different

! Combined statistically significant difference when compared to combined control at the 0.05 level; combined FDR not significantly different

Table S6. Hematology Summary

	Gender	Statistical Parameter	Control	TC1507 High	TC1507 Low	P0760	P0589	XL5840
RBC ($\times 10^6/\mu\text{L}$)	Female	Mean	7.68 ^a	7.58	7.28***!	7.50	7.56	7.72
		95% CI	7.46 - 7.90	7.37 - 7.79	7.07 - 7.49	--	--	--
		Range	6.46 - 8.37	7.09 - 8.23	6.78 - 7.86	6.80 - 8.46	7.01 - 8.31	7.29 - 8.17
	Male	Mean	8.60	8.53 ^a	8.56!	8.62	8.53	8.70 ^a
		95% CI	8.39 - 8.81	8.32 - 8.75	8.35 - 8.77	--	--	--
		Range	7.83 - 9.20	8.12 - 8.96	8.08 - 9.44	8.00 - 9.56	7.68 - 9.39	7.70 - 9.49
HGB (g/dL)	Female	Mean	13.9 ^a	13.6	13.2**	13.5	13.6	13.5
		95% CI	13.4 - 14.3	13.2 - 14.0	12.8 - 13.6	--	--	--
		Range	11.8 - 15.1	12.6 - 14.8	12.1 - 14.3	11.8 - 15.2	12.6 - 15.2	12.6 - 14.2
	Male	Mean	14.5	14.6 ^a	14.5	14.3	14.3	14.6 ^a
		95% CI	14.1 - 14.9	14.2 - 15.0	14.1 - 14.9	--	--	--
		Range	13.2 - 15.9	13.8 - 15.5	13.6 - 15.5	13.1 - 16.0	13.1 - 15.3	13.2 - 15.9
HCT (%)	Female	Mean	42.2 ^a	41.8	40.5	41.8	41.6	41.7
		95% CI	40.9 - 43.5	40.6 - 43.1	39.3 - 41.8	--	--	--
		Range	36.0 - 45.9	39.4 - 45.5	37.2 - 44.7	37.3 - 48.5	38.4 - 44.6	39.3 - 44.9
	Male	Mean	45.8	45.9 ^a	45.4	45.1	45.1	45.8 ^a
		95% CI	44.5 - 47.0	44.6 - 47.1	44.2 - 46.7	--	--	--
		Range	42.1 - 51.1	43.0 - 48.6	42.2 - 49.8	41.4 - 50.8	41.8 - 48.0	41.2 - 50.0
MCV (fL)	Female	Mean	55.0 ^a	55.2	55.7	55.8	55.1	54.0
		95% CI	54.0 - 56.0	54.2 - 56.1	54.7 - 56.7	--	--	--
		Range	50.5 - 59.2	53.6 - 59.2	52.5 - 59.8	52.8 - 57.7	52.3 - 58.9	52.2 - 56.9
	Male	Mean	53.2	53.7 ^a	53.1	52.3	53.0	52.8 ^a
		95% CI	52.3 - 54.2	52.7 - 54.7	52.1 - 54.1	--	--	--
		Range	50.4 - 58.9	49.8 - 57.0	50.9 - 55.6	49.8 - 54.0	51.1 - 55.6	48.7 - 55.6

	Gender	Statistical Parameter	Control	TC1507 High	TC1507 Low	P0760	P0589	XL5840
MCH (pg)	Female	Mean	18.0 ^a	17.9	18.2	18.1	18.0	17.5
		95% CI	17.7 - 18.3	17.6 - 18.2	17.9 - 18.5	--	--	--
		Range	17.2 - 19.2	17.3 - 18.8	17.1 - 19.8	17.1 - 19.3	17.0 - 18.7	16.8 - 18.1
	Male	Mean	16.9	17.1 ^a	17.0	16.6	16.8	16.8 ^a
		95% CI	16.6 - 17.2	16.8 - 17.4	16.7 - 17.3	--	--	--
		Range	15.6 - 18.4	16.0 - 18.2	16.0 - 19.2	15.8 - 17.5	16.0 - 17.8	15.8 - 17.5
MCHC (g/dL)	Female	Mean	32.8 ^a	32.5	32.6	32.4	32.7	32.4
		95% CI	32.2 - 33.4	31.8 - 33.1	32.0 - 33.3	--	--	--
		Range	31.5 - 36.4	31.3 - 33.0	31.4 - 35.0	31.4 - 34.2	31.5 - 35.0	31.5 - 33.3
	Male	Mean	31.7	31.9 ^a	32.0	31.8	31.8	31.8 ^a
		95% CI	31.3 - 32.1	31.5 - 32.3	31.6 - 32.4	--	--	--
		Range	30.5 - 33.9	30.8 - 32.9	30.5 - 34.8	31.2 - 33.0	30.9 - 33.3	30.5 - 32.9
RDW (%)	Female	Mean	11.4 ^a	11.7 ^{**}	11.5	11.6	11.5	11.6
		95% CI	11.2 - 11.6	11.5 - 11.8	11.3 - 11.7	--	--	--
		Range	10.9 - 12.0	11.1 - 12.3	10.9 - 12.3	11.2 - 11.9	10.8 - 12.3	11.3 - 12.0
	Male	Mean	12.6	12.6 ^a	12.4	12.5	12.9	12.6 ^a
		95% CI	12.3 - 12.9	12.3 - 12.8	12.1 - 12.7	--	--	--
		Range	12.1 - 13.6	11.7 - 14.0	11.8 - 13.3	11.9 - 13.7	11.9 - 14.0	12.0 - 13.8
ARET (×10 ⁶ /μL)	Female	Mean	87.2 ^a	104.1 ^{**}	95.2	102.3	87.6	90.7
		95% CI	76.7 - 97.8	93.9 - 114.3	85.0 - 105.4	--	--	--
		Range	45.5 - 149.1	54.9 - 132.0	53.7 - 138.9	53.3 - 160.9	60.4 - 127.6	48.4 - 148.4
	Male	Mean	106.6	107.4 ^a	99.6	101.2	100.6	101.2 ^a
		95% CI	96.4 - 116.9	96.9 - 118.0	89.4 - 109.8	--	--	--
		Range	78.7 - 132.9	76.2 - 139.3	66.0 - 125.4	53.9 - 141.5	65.8 - 150.1	65.9 - 153.5

	Gender	Statistical Parameter	Control	TC1507 High	TC1507 Low	P0760	P0589	XL5840
PLT* ($\times 10^3/\mu\text{L}$)	Female	Mean	975 ^a	1087**	999	1040	989	1041
		95% CI	911 - 1039	1024 - 1149	937 - 1061	--	--	--
		Range	751 - 1130	822 - 1346	810 - 1141	785 - 1221	282 - 1129	762 - 1205
	Male	Mean	1114	1054 ^a	1038	1060	1112	1000 ^a
		95% CI	1051 - 1176	990 - 1118	975 - 1100	--	--	--
		Range	829 - 1478	896 - 1300	891 - 1195	878 - 1258	834 - 1626	798 - 1111
WBC^c ($\times 10^3/\mu\text{L}$)	Female	Mean	5.72 ^a	5.45	5.61	6.33	5.35	5.31
		95% CI	4.73 - 6.92	4.52 - 6.57	4.66 - 6.76	--	--	--
		Range	3.20 - 11.81	3.56 - 9.78	3.18 - 11.42	3.66 - 9.91	2.37 - 8.86	2.37 - 8.23
	Male	Mean	8.06	8.53 ^a	8.11	8.79	9.75	8.52 ^a
		95% CI	6.69 - 9.72	7.05 - 10.31	6.73 - 9.78	--	--	--
		Range	4.56 - 13.44	4.45 - 13.93	5.10 - 14.68	4.57 - 16.35	5.20 - 13.80	5.31 - 18.15
ANEU^c ($\times 10^3/\mu\text{L}$)	Female	Mean	1.16 ^a	0.85**	0.95	1.33	1.00	0.88
		95% CI	0.94 - 1.43	0.70 - 1.05	0.77 - 1.16	--	--	--
		Range	0.48 - 2.92	0.40 - 1.84	0.62 - 1.62	0.52 - 2.34	0.35 - 2.06	0.45 - 1.77
	Male	Mean	1.68	1.67 ^a	1.60	1.68	2.01	1.66 ^a
		95% CI	1.37 - 2.05	1.36 - 2.06	1.30 - 1.96	--	--	--
		Range	1.09 - 3.40	0.66 - 3.71	0.89 - 2.74	0.73 - 2.63	0.77 - 3.31	0.93 - 3.08
ALYM^c ($\times 10^3/\mu\text{L}$)	Female	Mean	4.12 ^a	4.22	4.30	4.68	4.02	4.15
		95% CI	3.31 - 5.14	3.40 - 5.24	3.47 - 5.34	--	--	--
		Range	2.52 - 10.24	2.75 - 8.33	2.01 - 10.08	2.10 - 7.79	1.82 - 6.73	1.83 - 6.17
	Male	Mean	5.80	6.26 ^a	5.99	6.65	7.24	6.39 ^a
		95% CI	4.67 - 7.20	5.03 - 7.81	4.83 - 7.44	--	--	--
		Range	2.92 - 10.55	2.90 - 10.73	3.26 - 12.02	2.88 - 13.41	3.92 - 10.35	3.79 - 14.96

	Gender	Statistical Parameter	Control	TC1507 High	TC1507 Low	P0760	P0589	XL5840
AMON ($\times 10^3/\mu\text{L}$)	Female	Mean	0.20 ^a	0.19	0.18	0.19	0.20	0.16
		95% CI	0.15 - 0.25	0.15 - 0.24	0.13 - 0.23	--	--	--
		Range	0.00 - 0.40	0.08 - 0.37	0.10 - 0.31	0.10 - 0.28	0.13 - 0.34	0.04 - 0.28
	Male	Mean	0.28	0.26 ^a	0.29	0.24	0.28	0.27 ^a
		95% CI	0.22 - 0.35	0.19 - 0.33	0.22 - 0.35	--	--	--
		Range	0.09 - 0.57	0.12 - 0.51	0.12 - 0.60	0.08 - 0.47	0.00 - 0.53	0.07 - 0.59
AEOS ^c ($\times 10^3/\mu\text{L}$)	Female	Mean	0.08 ^a	0.06	0.06	0.07	0.08	0.07
		95% CI	0.06 - 0.09	0.05 - 0.08	0.05 - 0.08	--	--	--
		Range	0.05 - 0.17	0.04 - 0.10	0.03 - 0.12	0.04 - 0.12	0.04 - 0.12	0.02 - 0.12
	Male	Mean	0.11	0.12 ^a	0.10	0.13	0.12	0.12 ^a
		95% CI	0.09 - 0.13	0.10 - 0.15	0.08 - 0.12	--	--	--
		Range	0.05 - 0.22	0.06 - 0.23	0.05 - 0.29	0.04 - 0.33	0.00 - 0.19	0.05 - 0.34
ABAS ($\times 10^3/\mu\text{L}$)	Female	Mean	0.01 ^a	0.01	0.01	0.02	0.01	0.01
		95% CI	0.01 - 0.02	0.01 - 0.02	0.01 - 0.02	--	--	--
		Range	0.00 - 0.02	0.00 - 0.03	0.01 - 0.02	0.01 - 0.04	0.01 - 0.03	0.00 - 0.04
	Male	Mean	0.03	0.03 ^a	0.02	0.03	0.02	0.03 ^a
		95% CI	0.02 - 0.04	0.02 - 0.03	0.02 - 0.03	--	--	--
		Range	0.00 - 0.05	0.01 - 0.05	0.01 - 0.06	0.00 - 0.09	0.00 - 0.05	0.01 - 0.11
ALUC ^c ($\times 10^3/\mu\text{L}$)	Female	Mean	0.04 ^b	0.04	0.03	0.04	0.03	0.03
		95% CI	0.02 - 0.05	0.02 - 0.05	0.02 - 0.04	--	--	--
		Range	0.01 - 0.10	0.01 - 0.12	0.01 - 0.07	0.00 - 0.08	0.01 - 0.09	0.01 - 0.09
	Male	Mean	0.04	0.04 ^a	0.04	0.05 ^a	0.04 ^b	0.05 ^a
		95% CI	0.03 - 0.05	0.03 - 0.06	0.02 - 0.05	--	--	--
		Range	0.01 - 0.13	0.01 - 0.09	0.02 - 0.08	0.01 - 0.21	0.01 - 0.09	0.01 - 0.10

Note: P0760, P0589 and XL5840 are commercial reference maize line groups. When a reported statistic was estimated to be $< 10^{-10}$ in absolute value, the value was set to zero.

^an=15, ^bn=14, otherwise n=16

^c Test and control data were transformed prior to analysis. The means are presented on the data scale (back-transformed), confidence interval (CI) are presented on the transformed scale. Reference arithmetic means were calculated from the raw data.

*Sex X Treatment interaction statistically significant at the 0.05 level

**Statistically significant difference when compared to control at the 0.05 level; FDR not significantly different

! Combined statistically significant difference when compared to combined control at the 0.05 level; combined FDR not significantly different

Table S7. Coagulation Summary

	Gender	Statistical Parameter	Control	TC1507 High	TC1507 Low	P0760	P0589	XL5840
PT (sec)	Female	Mean	15.6 ^a	15.8	15.8 ^a	15.8	15.8	15.7
		95% CI	15.2 - 16.0	15.4 - 16.2	15.4 - 16.2	--	--	--
		Range	14.1 - 16.6	14.7 - 16.9	14.7 - 16.7	14.8 - 16.5	14.7 - 17.8	14.1 - 16.9
	Male	Mean	17.5	16.7 ^a	17.1	17.4	17.3	17.8 ^a
		95% CI	16.8 - 18.1	16.0 - 17.3	16.4 - 17.7	--	--	--
		Range	15.5 - 20.1	15.5 - 18.1	15.6 - 19.9	15.6 - 19.5	15.9 - 19.4	16.6 - 19.7
APTT (sec)	Female	Mean	13.7 ^a	14.2	14.6 ^a	13.7	13.9	14.1
		95% CI	12.9 - 14.5	13.4 - 15.0	13.8 - 15.4	--	--	--
		Range	9.5 - 15.4	10.4 - 16.8	9.8 - 20.6	9.7 - 16.8	10.4 - 16.6	10.0 - 16.4
	Male	Mean	15.9	15.2 ^a	15.9	15.2	15.4	15.7 ^a
		95% CI	15.0 - 16.7	14.4 - 16.1	15.1 - 16.8	--	--	--
		Range	12.8 - 17.8	11.8 - 17.0	13.1 - 17.8	11.5 - 17.5	11.9 - 18.3	13.7 - 17.9

Note: P0760, P0589 and XL5840 are commercial reference maize line groups. Test and control means are the LS-Means from the linear mixed model. Reference means are the arithmetic means. When a reported statistic was estimated to be $< 10^{-10}$ in absolute value, the value was set to zero.

^an=15, otherwise n=16

Table S8. Clinical Chemistry Summary

	Gender	Statistical Parameter	Control	TC1507 High	TC1507 Low	P0760	P0589	XL5840
AST ^d (U/L)	Female	Mean	104 ^a	86!	77**#	100 ^a	102	96 ^b
		95% CI	90 - 124	76 - 98	69 - 86	--	--	--
		Range	70 - 230	59 - 161	52 - 142	59 - 208	52 - 160	57 - 174
	Male	Mean	98 ^b	81 ^a !	76**#	82 ^c	97	96 ^a
		95% CI	85 - 116	72 - 93	68 - 85	--	--	--
		Range	81 - 148	61 - 197	60 - 110	65 - 110	68 - 212	70 - 157
ALT ^d (U/L)	Female	Mean	29	24	21**!	28	28	29
		95% CI	24 - 37	20 - 29	18 - 24	--	--	--
		Range	18 - 78	17 - 49	13 - 38	19 - 86	15 - 44	18 - 52
	Male	Mean	31	30 ^a	27!	28	36	34 ^a
		95% CI	27 - 35	27 - 34	25 - 31	--	--	--
		Range	23 - 63	23 - 52	22 - 35	17 - 45	23 - 158	20 - 107
SDH ^d (U/L)	Female	Mean	16.6 ^a	13.1!	10.8**!	15.1 ^a	13.5	13.9 ^b
		95% CI	13.4 - 20.4	10.7 - 16.1	8.8 - 13.2	--	--	--
		Range	8.4 - 69.2	7.4 - 25.4	7.0 - 22.6	7.1 - 58.0	6.2 - 24.6	9.1 - 21.9
	Male	Mean	18.2 ^b	14.7 ^a !	14.3!	13.7 ^c	20.3	20.3 ^a
		95% CI	14.6 - 22.6	11.9 - 18.1	11.7 - 17.5	--	--	--
		Range	8.9 - 65.9	8.6 - 25.3	8.8 - 24.5	7.1 - 22.4	7.6 - 99.0	7.4 - 63.0
ALKP (U/L)	Female	Mean	38	49**	44	49	42	45
		95% CI	32 - 45	43 - 56	38 - 51	--	--	--
		Range	26 - 48	22 - 77	20 - 67	22 - 89	24 - 79	27 - 82
	Male	Mean	77	80 ^a	72	80	78	75 ^a
		95% CI	67 - 88	69 - 90	62 - 83	--	--	--
		Range	56 - 140	52 - 129	55 - 101	49 - 120	57 - 125	50 - 121

	Gender	Statistical Parameter	Control	TC1507 High	TC1507 Low	P0760	P0589	XL5840
BILI^d (mg/dL)	Female	Mean	0.19	0.20	0.19	0.21	0.21	0.21
		95% CI	0.17 - 0.21	0.18 - 0.22	0.18 - 0.22	--	--	--
		Range	0.15 - 0.41	0.17 - 0.24	0.15 - 0.27	0.15 - 0.31	0.15 - 0.27	0.15 - 0.31
	Male	Mean	0.17	0.16 ^a	0.16	0.19	0.19	0.17 ^a
		95% CI	0.16 - 0.18	0.15 - 0.18	0.15 - 0.17	--	--	--
		Range	0.13 - 0.28	0.14 - 0.22	0.14 - 0.20	0.11 - 0.31	0.14 - 0.30	0.15 - 0.20
BUN (mg/dL)	Female	Mean	18	18	17	18	17	17
		95% CI	16 - 20	16 - 20	15 - 19	--	--	--
		Range	13 - 25	12 - 25	12 - 20	13 - 25	13 - 24	12 - 21
	Male	Mean	17	16 ^a	16	17	15	17 ^a
		95% CI	15 - 18	14 - 18	14 - 18	--	--	--
		Range	11 - 23	11 - 19	14 - 20	14 - 20	12 - 21	13 - 19
CREA (mg/dL)	Female	Mean	0.36	0.37	0.37	0.37	0.38	0.37
		95% CI	0.34 - 0.39	0.34 - 0.39	0.34 - 0.39	--	--	--
		Range	0.27 - 0.45	0.28 - 0.46	0.31 - 0.44	0.31 - 0.44	0.30 - 0.47	0.32 - 0.48
	Male	Mean	0.34	0.32 ^a	0.31	0.35	0.33	0.33 ^a
		95% CI	0.30 - 0.38	0.28 - 0.36	0.27 - 0.35	--	--	--
		Range	0.22 - 0.48	0.25 - 0.39	0.21 - 0.40	0.26 - 0.44	0.23 - 0.44	0.24 - 0.43
CHOL^d (mg/dL)	Female	Mean	60.64	57.69	59.73	61.31	67.88	63.56
		95% CI	53.97 - 68.14	51.34 - 64.82	53.15 - 67.11	--	--	--
		Range	42.00 - 94.00	38.00 - 84.00	39.00 - 107.00	36.00 - 86.00	45.00 - 88.00	45.00 - 92.00
	Male	Mean	49.10	56.43 ^a	48.84	51.75	57.19	46.07 ^a
		95% CI	43.69 - 55.17	50.02 - 63.65	43.47 - 54.88	--	--	--
		Range	30.00 - 87.00	45.00 - 78.00	36.00 - 66.00	37.00 - 76.00	28.00 - 89.00	35.00 - 66.00

	Gender	Statistical Parameter	Control	TC1507 High	TC1507 Low	P0760	P0589	XL5840
HDL^d (mg/dL)	Female	Mean	39.8	38.8	39.7	40.9	44.9	43.1
		95% CI	35.5 - 45.2	34.8 - 44.0	35.5 - 45.1	--	--	--
		Range	30.4 - 61.6	27.9 - 53.9	27.3 - 69.7	25.8 - 58.1	31.5 - 57.6	30.9 - 60.4
	Male	Mean	29.9	34.1 ^a	30.0	31.4	34.1	28.6 ^a
		95% CI	27.4 - 32.9	30.8 - 38.1	27.5 - 33.0	--	--	--
		Range	20.0 - 47.6	29.1 - 45.8	22.9 - 39.2	23.3 - 45.2	20.8 - 49.8	21.6 - 38.2
nHDL^d (mg/dL)	Female	Mean	20.0	18.0	18.9	20.4	23.0	20.5
		95% CI	17.2 - 23.2	15.5 - 20.9	16.2 - 21.9	--	--	--
		Range	10.9 - 32.4	10.1 - 30.1	11.7 - 37.3	10.2 - 28.3	13.5 - 32.1	13.0 - 31.6
	Male	Mean	18.2	21.8 ^a	18.4	20.4	23.1	17.5 ^a
		95% CI	15.7 - 21.2	18.7 - 25.5	15.9 - 21.4	--	--	--
		Range	10.0 - 39.4	14.2 - 32.8	11.6 - 26.8	13.7 - 30.8	7.2 - 39.2	13.1 - 28.1
TRIG^d (mg/dL)	Female	Mean	32	38	40**	39	39	34
		95% CI	27 - 37	33 - 44	35 - 47	--	--	--
		Range	24 - 45	29 - 53	24 - 71	23 - 56	22 - 49	23 - 54
	Male	Mean	49	52 ^a	47	51	54	57 ^a
		95% CI	42 - 57	45 - 61	41 - 55	--	--	--
		Range	32 - 69	31 - 94	31 - 97	29 - 100	30 - 99	38 - 98
GLUC (mg/dL)	Female	Mean	146	150	142	143	139	147
		95% CI	129 - 163	133 - 167	125 - 159	--	--	--
		Range	107 - 186	95 - 189	96 - 193	106 - 193	99 - 187	102 - 182
	Male	Mean	190	187 ^a	171**	178	183	177 ^a
		95% CI	175 - 204	172 - 202	156 - 185	--	--	--
		Range	137 - 252	148 - 261	116 - 254	110 - 233	120 - 242	103 - 247

	Gender	Statistical Parameter	Control	TC1507 High	TC1507 Low	P0760	P0589	XL5840
TP (g/dL)	Female	Mean	6.5	6.6	6.7	6.5	6.6	6.7
		95% CI	6.3 - 6.7	6.4 - 6.9	6.5 - 7.0	--	--	--
		Range	6.1 - 7.4	5.9 - 7.2	5.6 - 7.5	5.9 - 7.0	5.9 - 7.3	5.9 - 7.7
	Male	Mean	6.0	6.1 ^a	6.0	6.0	6.1	6.0 ^a
		95% CI	5.9 - 6.1	6.0 - 6.2	5.9 - 6.1	--	--	--
		Range	5.7 - 6.3	5.7 - 6.4	5.5 - 6.6	5.3 - 6.5	5.7 - 6.5	5.5 - 6.3
ALB (g/dL)	Female	Mean	3.5	3.5	3.6	3.5	3.5	3.6
		95% CI	3.3 - 3.6	3.4 - 3.7	3.4 - 3.7	--	--	--
		Range	3.2 - 3.9	3.1 - 3.9	2.8 - 4.1	3.1 - 3.9	2.9 - 4.1	3.0 - 4.3
	Male	Mean	2.9	3.0 ^a	2.9	2.9	2.9	3.0 ^a
		95% CI	2.9 - 3.0	2.9 - 3.0	2.9 - 3.0	--	--	--
		Range	2.8 - 3.1	2.7 - 3.1	2.7 - 3.2	2.8 - 3.1	2.8 - 3.1	2.8 - 3.1
GLOB (g/dL)	Female	Mean	3.1	3.1	3.1	3.0	3.1	3.1
		95% CI	3.0 - 3.1	3.0 - 3.2	3.0 - 3.2	--	--	--
		Range	2.7 - 3.5	2.7 - 3.3	2.8 - 3.5	2.7 - 3.4	2.7 - 3.5	2.8 - 3.4
	Male	Mean	3.1	3.1 ^a	3.0	3.0	3.2	3.0 ^a
		95% CI	3.0 - 3.2	3.0 - 3.2	2.9 - 3.1	--	--	--
		Range	2.8 - 3.4	2.8 - 3.3	2.7 - 3.4	2.5 - 3.5	2.9 - 3.6	2.7 - 3.2
CALC (mg/dL)	Female	Mean	11.0	11.0	11.0	11.1	10.9	11.0
		95% CI	10.7 - 11.3	10.7 - 11.3	10.7 - 11.3	--	--	--
		Range	10.4 - 11.8	10.3 - 11.7	9.7 - 11.9	10.1 - 11.6	9.9 - 11.7	10.2 - 12.0
	Male	Mean	10.5	10.7 ^a	10.3	10.5	10.5	10.5 ^a
		95% CI	10.3 - 10.7	10.5 - 10.9	10.1 - 10.5	--	--	--
		Range	9.8 - 11.0	10.0 - 11.6	9.6 - 11.6	9.4 - 11.6	9.9 - 11.4	9.7 - 11.3

	Gender	Statistical Parameter	Control	TC1507 High	TC1507 Low	P0760	P0589	XL5840
IPHS (mg/dL)	Female	Mean	8.0	8.0	7.7	8.2	7.6	8.0
		95% CI	7.5 - 8.5	7.5 - 8.4	7.2 - 8.1	--	--	--
		Range	7.0 - 9.7	6.8 - 9.4	5.9 - 9.2	5.9 - 10.8	6.1 - 9.7	6.1 - 10.3
	Male	Mean	8.0	8.3 ^a	7.5	7.7	7.8	7.8 ^a
		95% CI	7.5 - 8.5	7.8 - 8.7	7.0 - 7.9	--	--	--
		Range	6.7 - 9.4	7.0 - 9.4	6.3 - 8.9	5.4 - 9.4	7.0 - 8.6	6.6 - 9.3
NA (mmol/L)	Female	Mean	142.8	142.5	142.6	142.5	142.8	143.0
		95% CI	142.1 - 143.4	141.9 - 143.1	141.9 - 143.2	--	--	--
		Range	139.3 - 146.4	140.5 - 144.7	141.3 - 144.9	139.6 - 145.5	141.0 - 144.2	141.5 - 144.5
	Male	Mean	144.8	144.1 ^a	144.6	144.4	144.5	144.6 ^a
		95% CI	144.2 - 145.4	143.4 - 144.7	144.0 - 145.2	--	--	--
		Range	142.5 - 147.5	142.2 - 145.8	142.8 - 146.7	143.0 - 145.9	143.5 - 145.9	143.2 - 146.3
K (mmol/L)	Female	Mean	5.63 ^a	5.74	5.36	5.81 ^a	5.41	5.43 ^b
		95% CI	5.20 - 6.07	5.32 - 6.16	4.94 - 5.79	--	--	--
		Range	4.12 - 6.85	4.18 - 7.82	4.44 - 6.97	4.56 - 6.93	3.85 - 7.27	4.09 - 6.32
	Male	Mean	6.06 ^b	6.50 ^a	5.67	5.88 ^c	5.76	6.04 ^a
		95% CI	5.60 - 6.51	6.06 - 6.94	5.24 - 6.09	--	--	--
		Range	4.82 - 7.25	4.80 - 9.01	4.09 - 8.16	4.44 - 7.26	4.85 - 6.57	4.22 - 7.38
CL (mmol/L)	Female	Mean	103.9	103.4	103.9	103.8	103.8	103.5
		95% CI	103.0 - 104.8	102.5 - 104.3	103.0 - 104.9	--	--	--
		Range	101.7 - 106.0	100.8 - 105.2	101.4 - 106.7	101.2 - 108.0	99.7 - 106.9	101.2 - 106.0
	Male	Mean	103.8	103.8 ^a	104.5 ^{**}	104.2	103.7	103.8 ^a
		95% CI	103.1 - 104.5	103.1 - 104.5	103.8 - 105.2	--	--	--
		Range	102.1 - 106.1	101.3 - 105.7	101.4 - 107.1	102.2 - 107.9	101.8 - 105.6	101.9 - 106.1

	Gender	Statistical Parameter	Control	TC1507 High	TC1507 Low	P0760	P0589	XL5840
TBA ^d (μmol/L)	Female	Mean	12.312	15.773	14.648	16.988	14.681	12.613
		95% CI	9.719 - 15.596	12.452 - 19.980	11.564 - 18.556	--	--	--
		Range	6.100 - 21.900	9.200 - 56.200	8.100 - 26.400	6.400 - 77.200	5.500 - 24.600	6.000 - 27.100
	Male	Mean	10.226	9.103 ^a	10.857	13.063	12.888	10.913 ^a
		95% CI	8.072 - 12.953	7.131 - 11.622	8.571 - 13.754	--	--	--
		Range	5.800 - 28.200	3.600 - 21.400	3.900 - 44.800	4.700 - 37.300	5.100 - 30.900	5.900 - 24.800
T3 (ng/mL)	Female	Mean	0.391	0.408	0.397	0.384	0.398	0.368
		95% CI	0.344 - 0.439	0.361 - 0.455	0.350 - 0.444	--	--	--
		Range	0.278 - 0.515	0.300 - 0.531	0.281 - 0.573	0.281 - 0.497	0.309 - 0.662	0.274 - 0.497
	Male	Mean	0.278	0.285	0.290	0.280	0.287	0.288 ^a
		95% CI	0.252 - 0.304	0.259 - 0.311	0.264 - 0.315	--	--	--
		Range	0.220 - 0.351	0.215 - 0.357	0.193 - 0.377	0.211 - 0.390	0.206 - 0.403	0.208 - 0.384
T4 (ng/mL)	Female	Mean	28.3	32.0	28.4	30.2	29.1	27.3
		95% CI	25.1 - 31.5	28.9 - 35.2	25.2 - 31.6	--	--	--
		Range	19.4 - 37.0	23.6 - 42.3	17.1 - 44.0	16.8 - 42.8	13.9 - 41.9	17.3 - 42.3
	Male	Mean	50.0	50.5	49.2	48.9	48.7	45.4 ^a
		95% CI	46.8 - 53.1	47.3 - 53.7	46.0 - 52.3	--	--	--
		Range	38.5 - 59.8	39.0 - 59.9	35.3 - 62.5	41.5 - 64.8	39.6 - 66.0	35.8 - 58.3
TSH ^d (ng/mL)	Female	Mean	3.71	4.17!	3.78	3.77 ^a	3.74	3.68
		95% CI	3.25 - 4.24	3.65 - 4.77	3.31 - 4.32	--	--	--
		Range	2.20 - 6.73	2.89 - 7.17	2.20 - 7.07	1.03 - 4.68	2.72 - 5.51	2.56 - 5.63
	Male	Mean	4.22	4.75!	4.46	4.59	4.69	5.33 ^a
		95% CI	3.70 - 4.82	4.16 - 5.42	3.90 - 5.09	--	--	--
		Range	2.60 - 6.12	3.33 - 7.88	3.25 - 7.65	2.60 - 6.91	3.08 - 6.52	3.67 - 13.52

Note: P0760, P0589 and XL5840 are commercial reference maize line groups. When a reported statistic was estimated to be $< 10^{-10}$ in absolute value, the value was set to zero.

^an=15, ^bn=14, ^cn=13, otherwise n=16

^d Test and control data were transformed prior to analysis. The means are presented on the data scale (back-transformed), confidence interval (CI) are presented on the transformed scale. Reference arithmetic means were calculated from the raw data.

*Sex X Treatment interaction statistically significant at the 0.05 level

**Statistically significant difference when compared to control at the 0.05 level; FDR not significantly different

Combined statistically significant difference when compared to combined control at the 0.05 level; combined FDR significantly different

! Combined statistically significant difference when compared to combined control at the 0.05 level; combined FDR not significantly different

Table S9. Urinalysis Summary

	Gender	Statistical Parameter	Control	TC1507 High	TC1507 Low	P0760	P0589	XL5840
UVOL ^{b*} (mL)	Female	Mean	3.4	7.3**	6.8**	9.2	7.5	8.0
		95% CI	1.8 - 5.6	4.7 - 10.3	4.3 - 9.7	--	--	--
		Range	0.5 - 6.8	2.0 - 28.0	1.4 - 37.0	1.8 - 52.0	2.4 - 14.0	1.8 - 40.0
	Male	Mean	10.4	8.8	7.4	10.7	13.9 ^a	11.5 ^a
		95% CI	7.3 - 14.0	6.0 - 12.2	4.9 - 10.5	--	--	--
		Range	2.4 - 22.2	0.1 - 22.0	2.8 - 16.8	3.0 - 22.0	4.0 - 32.0	5.4 - 34.0
SG	Female	Mean	1.050	1.035**	1.040	1.036	1.031	1.041
		95% CI	1.041 - 1.060	1.026 - 1.045	1.030 - 1.049	--	--	--
		Range	1.029 - 1.100	1.009 - 1.056	1.008 - 1.100	1.006 - 1.073	1.018 - 1.055	1.009 - 1.067
	Male	Mean	1.038	1.040	1.043	1.040	1.035 ^a	1.039 ^a
		95% CI	1.028 - 1.047	1.031 - 1.050	1.034 - 1.053	--	--	--
		Range	1.017 - 1.077	1.021 - 1.092	1.025 - 1.076	1.018 - 1.068	1.013 - 1.069	1.012 - 1.063
pH	Female	Mean	6.3	6.6**	6.4	6.6	6.5	6.5
		95% CI	6.1 - 6.5	6.4 - 6.8	6.2 - 6.6	--	--	--
		Range	6.0 - 7.0	6.0 - 7.5	6.0 - 7.0	5.5 - 8.0	6.0 - 7.0	6.0 - 7.0
	Male	Mean	7.1	7.0 ^a	6.9	7.2	7.0 ^a	7.1 ^a
		95% CI	6.9 - 7.2	6.9 - 7.2	6.8 - 7.1	--	--	--
		Range	6.5 - 7.5	6.5 - 7.5	6.5 - 7.5	6.5 - 8.0	6.5 - 8.0	6.5 - 8.0

	Gender	Statistical Parameter	Control	TC1507 High	TC1507 Low	P0760	P0589	XL5840
UMTP^b (mg/dL)	Female	Mean	54	30**	35**	36 ^a	33	44
		95% CI	40 - 74	22 - 41	26 - 48	--	--	--
		Range	23 - 123	7 - 74	7 - 237	4 - 91	14 - 65	6 - 85
	Male	Mean	133	142	162	157	150 ^a	163 ^a
		95% CI	98 - 181	104 - 193	119 - 220	--	--	--
		Range	67 - 278	55 - 375	81 - 847	59 - 344	51 - 352	56 - 285

Note: P0760, P0589 and XL5840 are commercial reference maize line groups. When a reported statistic was estimated to be $< 10^{-10}$ in absolute value, the value was set to zero.

^an=15, otherwise n=16

^b Test and control data were transformed prior to analysis. The means are presented on the data scale (back-transformed), confidence interval (CI) are presented on the transformed scale. Reference arithmetic means were calculated from the raw data.

*Sex X Treatment interaction statistically significant at the 0.05 level

**Statistically significant difference when compared to control at the 0.05 level; FDR not significantly different

Table S9a. Urinalysis Summary (ordinal data)

	Gender	Statistical Parameter	Control	TC1507 High	TC1507 Low	P0760	P0589	XL5840
URO (EU/dL)	Female	Mean	0.2	0.2	0.2	0.2	0.2	0.2
		Range	0.2 – 0.2	0.2 – 0.2	0.2 – 0.2	0.2 – 0.2	0.2 – 0.2	0.2 – 0.2
	Male	Mean	0.2	0.2	0.2	0.2	0.2	0.2 ^a
		Range	0.2 – 0.2	0.2 – 0.2	0.2 – 0.2	0.2 – 0.2	0.2 – 0.2	0.2 – 0.2

Note: P0760, P0589 and XL5840 are commercial reference maize line groups. Statistical analysis not performed

^an=15, otherwise n=16

Table S10. Organ Weight, Organ to Terminal Body Weight, and Organ to Brain Weight Summary

	Gender	Statistical Parameter	Control	TC1507 High	TC1507 Low	P0760	P0589	XL5840
Terminal Body Wt (g)	Female	Mean	277.6	279.6	283.5	285.7	287.6	286.2
		95% CI	262.7 - 292.6	264.6 - 294.6	268.5 - 298.4	--	--	--
		Range	235.9 - 306.4	239.3 - 327.6	245.1 - 340.2	237.7 - 341.8	243.1 - 339.0	232.7 - 330.3
	Male	Mean	574.9	554.6	560.7	596.3	581.8	590.4 ^a
		95% CI	551.2 - 598.7	530.8 - 578.4	536.9 - 584.5	--	--	--
		Range	491.2 - 688.3	477.0 - 640.7	476.8 - 647.4	497.2 - 740.5	496.9 - 717.2	531.9 - 635.4
Adrenal Glands (g)	Female	Mean	0.074	0.075	0.071	0.071	0.077	0.078
		95% CI	0.067 - 0.080	0.069 - 0.082	0.065 - 0.078	--	--	--
		Range	0.044 - 0.089	0.053 - 0.111	0.047 - 0.099	0.046 - 0.088	0.059 - 0.093	0.053 - 0.101
	Male	Mean	0.059	0.061	0.060	0.061	0.064	0.061 ^b
		95% CI	0.055 - 0.064	0.056 - 0.065	0.055 - 0.065	--	--	--
		Range	0.048 - 0.072	0.044 - 0.085	0.045 - 0.074	0.042 - 0.088	0.052 - 0.075	0.052 - 0.069
Adrenal Glands/Brain Wt (%)	Female	Mean	3.606	3.654	3.485	3.486	3.772	3.798
		95% CI	3.325 - 3.887	3.373 - 3.935	3.205 - 3.766	--	--	--
		Range	2.187 - 4.479	2.865 - 5.233	2.462 - 4.613	2.263 - 4.337	2.983 - 4.475	2.649 - 4.918
	Male	Mean	2.630	2.623	2.657	2.673	2.838	2.718 ^b
		95% CI	2.433 - 2.828	2.425 - 2.821	2.459 - 2.855	--	--	--
		Range	2.068 - 3.296	1.978 - 3.675	1.974 - 3.345	1.786 - 3.927	2.312 - 3.326	2.256 - 3.230

	Gender	Statistical Parameter	Control	TC1507 High	TC1507 Low	P0760	P0589	XL5840
Adrenal Glands/Term BW (%)	Female	Mean	0.0267	0.0269	0.0252	0.0252	0.0268	0.0275
		95% CI	0.0248 - 0.0286	0.0250 - 0.0288	0.0233 - 0.0271	--	--	--
		Range	0.0158 - 0.0340	0.0199 - 0.0355	0.0185 - 0.0332	0.0135 - 0.0370	0.0222 - 0.0328	0.0192 - 0.0382
	Male	Mean	0.0104	0.0110	0.0108	0.0103	0.0110	0.0103 ^b
		95% CI	0.0096 - 0.0112	0.0102 - 0.0118	0.0100 - 0.0116	--	--	--
		Range	0.0080 - 0.0135	0.0078 - 0.0150	0.0080 - 0.0141	0.0077 - 0.0141	0.0077 - 0.0139	0.0088 - 0.0119
Accessory Sex Organs (g)	Male	Mean	3.364	3.424	3.475	3.465	3.605	3.557 ^a
		95% CI	3.109 - 3.619	3.169 - 3.679	3.220 - 3.731	--	--	--
		Range	2.475 - 4.038	2.212 - 4.433	2.674 - 4.259	2.484 - 4.318	2.717 - 4.260	2.931 - 4.613
Accessory Sex Organs/Brain Wt (%)	Male	Mean	149.086	148.309	153.732	151.751	160.594	157.686 ^a
		95% CI	137.779 - 160.392	137.002 - 159.615	142.425 - 165.038	--	--	--
		Range	111.486 - 183.205	85.736 - 182.955	117.797 - 192.020	104.854 - 184.435	134.438 - 185.621	120.916 - 196.048
Accessory Sex Organs/Term BW (%)	Male	Mean	0.592	0.622	0.627	0.587	0.625	0.605 ^a
		95% CI	0.535 - 0.648	0.565 - 0.678	0.570 - 0.683	--	--	--
		Range	0.449 - 0.822	0.391 - 0.800	0.424 - 0.893	0.444 - 0.825	0.379 - 0.722	0.461 - 0.833

	Gender	Statistical Parameter	Control	TC1507 High	TC1507 Low	P0760	P0589	XL5840
Brain (g)	Female	Mean	2.047	2.056	2.041	2.048	2.038	2.063
		95% CI	1.997 - 2.096	2.006 - 2.105	1.992 - 2.090	--	--	--
		Range	1.869 - 2.159	1.850 - 2.265	1.909 - 2.146	1.927 - 2.164	1.900 - 2.142	1.904 - 2.219
	Male	Mean	2.257	2.318**	2.264	2.285	2.243	2.256 ^a
		95% CI	2.208 - 2.307	2.269 - 2.368	2.214 - 2.313	--	--	--
		Range	2.033 - 2.378	2.134 - 2.580	2.171 - 2.459	2.166 - 2.470	2.021 - 2.463	2.136 - 2.424
Brain/Term BW (%)	Female	Mean	0.739	0.738	0.724	0.723	0.712	0.726
		95% CI	0.706 - 0.772	0.705 - 0.771	0.691 - 0.757	--	--	--
		Range	0.705 - 0.846	0.656 - 0.848	0.601 - 0.821	0.595 - 0.877	0.622 - 0.816	0.623 - 0.880
	Male	Mean	0.398	0.420	0.406	0.387	0.388	0.383 ^a
		95% CI	0.381 - 0.414	0.403 - 0.437	0.389 - 0.423	--	--	--
		Range	0.320 - 0.465	0.372 - 0.511	0.353 - 0.465	0.326 - 0.447	0.282 - 0.418	0.342 - 0.425
Epididymides (g)	Male	Mean	1.395	1.429	1.480	1.451	1.449	1.496 ^a
		95% CI	1.325 - 1.465	1.359 - 1.499	1.409 - 1.550	--	--	--
		Range	1.145 - 1.636	0.977 - 1.745	1.295 - 1.666	1.143 - 1.798	1.128 - 1.734	1.186 - 1.769
Epididymides/ Brain Wt (%)	Male	Mean	61.790	61.650	65.404	63.507	64.789	66.340 ^a
		95% CI	58.792 - 64.787	58.653 - 64.647	62.407 - 68.401	--	--	--
		Range	51.577 - 71.944	43.930 - 74.509	54.757 - 75.316	48.597 - 74.206	45.798 - 78.179	54.705 - 77.249
Epididymides/ Term BW (%)	Male	Mean	0.246	0.259	0.266	0.245	0.252	0.254 ^a
		95% CI	0.231 - 0.260	0.244 - 0.273	0.251 - 0.280	--	--	--
		Range	0.179 - 0.299	0.174 - 0.335	0.215 - 0.318	0.185 - 0.307	0.178 - 0.325	0.209 - 0.297

	Gender	Statistical Parameter	Control	TC1507 High	TC1507 Low	P0760	P0589	XL5840
Heart ^c (g)	Female	Mean	1.006	0.973	0.993	0.981	0.986	1.027
		95% CI	0.953 - 1.062	0.922 - 1.027	0.941 - 1.048	--	--	--
		Range	0.883 - 1.153	0.835 - 1.255	0.892 - 1.198	0.767 - 1.120	0.827 - 1.112	0.781 - 1.398
	Male	Mean	1.667	1.686	1.669	1.742	1.704	1.783 ^a
		95% CI	1.579 - 1.759	1.597 - 1.779	1.581 - 1.761	--	--	--
		Range	1.381 - 2.105	1.425 - 2.294	1.410 - 2.116	1.435 - 2.137	1.496 - 2.002	1.523 - 2.412
Heart/Brain Wt (%)	Female	Mean	49.405	47.694	48.828	47.893	48.439	49.792
		95% CI	46.776 - 52.034	45.065 - 50.323	46.199 - 51.456	--	--	--
		Range	42.506 - 57.911	40.913 - 60.922	44.590 - 58.611	38.350 - 54.929	41.704 - 53.947	38.135 - 65.912
	Male	Mean	74.458	73.319	74.211	76.298	76.153	79.032 ^a
		95% CI	69.875 - 79.041	68.736 - 77.902	69.628 - 78.794	--	--	--
		Range	58.866 - 95.552	61.317 - 97.327	64.947 - 95.660	61.289 - 90.813	64.109 - 96.141	64.726 - 99.505
Heart/Term BW (%)	Female	Mean	0.365	0.351	0.352	0.345	0.344	0.360
		95% CI	0.349 - 0.381	0.335 - 0.367	0.336 - 0.368	--	--	--
		Range	0.316 - 0.427	0.292 - 0.444	0.325 - 0.379	0.283 - 0.436	0.324 - 0.382	0.305 - 0.486
	Male	Mean	0.292	0.306	0.300	0.294	0.294	0.302 ^a
		95% CI	0.276 - 0.308	0.290 - 0.322	0.284 - 0.316	--	--	--
		Range	0.259 - 0.349	0.263 - 0.388	0.264 - 0.371	0.258 - 0.371	0.250 - 0.325	0.272 - 0.380

	Gender	Statistical Parameter	Control	TC1507 High	TC1507 Low	P0760	P0589	XL5840
Kidneys (g)	Female	Mean	1.992	2.040	1.928	1.973	1.959	2.016
		95% CI	1.850 - 2.135	1.897 - 2.182	1.785 - 2.070	--	--	--
		Range	1.690 - 2.328	1.572 - 2.423	1.602 - 2.281	1.704 - 2.320	1.542 - 2.289	1.790 - 2.376
	Male	Mean	3.636	3.502	3.533	3.686	3.411	3.711 ^a
		95% CI	3.465 - 3.807	3.331 - 3.673	3.362 - 3.704	--	--	--
		Range	2.848 - 4.641	2.977 - 4.037	3.170 - 4.217	3.041 - 4.347	2.890 - 3.950	3.332 - 4.585
Kidneys/Brain Wt* (%)	Female	Mean	97.299	99.327	94.452	96.346	96.210	97.785
		95% CI	91.670 - 102.927	93.699 - 104.956	88.824 - 100.081	--	--	--
		Range	87.425 - 109.748	77.477 - 122.870	77.918 - 109.051	84.315 - 111.658	77.761 - 115.083	86.546 - 115.508
	Male	Mean	161.082	151.064**	156.133	161.263	152.256	164.502 ^a
		95% CI	154.691 - 167.472	144.674 - 157.455	149.742 - 162.524	--	--	--
		Range	128.288 - 195.164	127.094 - 170.900	142.922 - 187.952	131.870 - 181.124	132.016 - 195.448	144.555 - 197.459
Kidneys/Term BW (%)	Female	Mean	0.718	0.729	0.681	0.693	0.682	0.707
		95% CI	0.690 - 0.746	0.701 - 0.757	0.653 - 0.709	--	--	--
		Range	0.630 - 0.782	0.595 - 0.852	0.578 - 0.787	0.624 - 0.854	0.608 - 0.752	0.620 - 0.841
	Male	Mean	0.634	0.632	0.631	0.621	0.588	0.629 ^a
		95% CI	0.606 - 0.661	0.604 - 0.660	0.603 - 0.659	--	--	--
		Range	0.508 - 0.742	0.542 - 0.714	0.557 - 0.670	0.531 - 0.744	0.519 - 0.679	0.564 - 0.729

	Gender	Statistical Parameter	Control	TC1507 High	TC1507 Low	P0760	P0589	XL5840
Liver (g)	Female	Mean	7.486	7.522	7.483	7.343	7.434	7.662
		95% CI	7.067 - 7.904	7.104 - 7.940	7.065 - 7.901	--	--	--
		Range	6.752 - 8.861	5.869 - 8.882	6.188 - 9.634	6.144 - 8.792	6.195 - 9.199	5.727 - 9.549
	Male	Mean	14.504	13.723	13.969	14.524	14.730	14.803 ^a
		95% CI	13.687 - 15.321	12.906 - 14.540	13.152 - 14.786	--	--	--
		Range	12.055 - 18.342	10.871 - 16.135	11.643 - 16.331	11.030 - 17.563	11.567 - 18.439	12.513 - 18.681
Liver/Brain Wt (%)	Female	Mean	365.827	366.112	366.478	358.880	365.132	371.898
		95% CI	347.655 - 384.000	347.939 - 384.284	348.305 - 384.650	--	--	--
		Range	331.105 - 418.960	289.256 - 431.165	307.555 - 471.331	307.013 - 433.169	312.405 - 436.592	279.639 - 477.211
	Male	Mean	644.230	593.468	616.913	635.645	657.591	656.662 ^a
		95% CI	606.978 - 681.483	556.216 - 630.720	579.660 - 654.165	--	--	--
		Range	512.543 - 794.048	446.264 - 756.092	524.223 - 718.194	496.176 - 775.408	556.909 - 910.787	553.918 - 770.668
Liver/Term BW (%)	Female	Mean	2.700	2.688	2.642	2.573	2.587	2.685
		95% CI	2.623 - 2.778	2.611 - 2.766	2.564 - 2.719	--	--	--
		Range	2.419 - 3.005	2.429 - 3.142	2.172 - 3.044	2.323 - 2.964	2.370 - 3.060	2.318 - 3.638
	Male	Mean	2.515	2.474	2.491	2.433	2.527	2.504 ^a
		95% CI	2.438 - 2.593	2.396 - 2.551	2.414 - 2.569	--	--	--
		Range	2.322 - 2.742	2.263 - 2.873	2.192 - 2.783	2.031 - 2.736	2.222 - 2.946	2.199 - 2.940

	Gender	Statistical Parameter	Control	TC1507 High	TC1507 Low	P0760	P0589	XL5840
Spleen (g)	Female	Mean	0.526	0.532	0.527	0.542	0.545	0.543
		95% CI	0.481 - 0.572	0.487 - 0.578	0.482 - 0.573	--	--	--
		Range	0.460 - 0.610	0.342 - 0.778	0.412 - 0.715	0.428 - 0.722	0.418 - 0.719	0.345 - 0.830
	Male	Mean	0.864	0.864	0.858	0.934	0.950	0.915 ^a
		95% CI	0.801 - 0.927	0.801 - 0.927	0.796 - 0.921	--	--	--
		Range	0.556 - 1.135	0.724 - 1.115	0.612 - 0.988	0.720 - 1.185	0.715 - 1.588	0.733 - 1.249
Spleen/Brain Wt (%)	Female	Mean	25.706	25.868	25.811	26.529	26.692	26.244
		95% CI	23.744 - 27.667	23.906 - 27.829	23.850 - 27.773	--	--	--
		Range	22.884 - 29.095	18.486 - 36.681	19.990 - 34.591	20.528 - 36.687	21.132 - 35.090	16.953 - 40.350
	Male	Mean	38.302	37.308	37.866	40.875	42.276	40.581 ^a
		95% CI	35.776 - 40.829	34.782 - 39.835	35.339 - 40.393	--	--	--
		Range	23.639 - 49.912	30.008 - 46.796	27.592 - 44.665	31.463 - 49.631	32.135 - 70.956	31.152 - 56.227
Spleen/Term BW (%)	Female	Mean	0.190	0.190	0.186	0.190	0.190	0.188
		95% CI	0.180 - 0.199	0.181 - 0.200	0.176 - 0.195	--	--	--
		Range	0.169 - 0.207	0.131 - 0.249	0.148 - 0.236	0.163 - 0.244	0.141 - 0.250	0.135 - 0.251
	Male	Mean	0.150	0.156	0.153	0.158	0.163	0.154 ^a
		95% CI	0.141 - 0.160	0.147 - 0.165	0.144 - 0.162	--	--	--
		Range	0.107 - 0.190	0.132 - 0.197	0.127 - 0.173	0.117 - 0.203	0.115 - 0.264	0.132 - 0.215
Prostate (g)	Male	Mean	0.637	0.663	0.593	0.616	0.659	0.711 ^a
		95% CI	0.543 - 0.732	0.568 - 0.757	0.498 - 0.687	--	--	--
		Range	0.254 - 1.034	0.264 - 1.026	0.281 - 0.825	0.229 - 0.908	0.401 - 0.970	0.419 - 0.978

	Gender	Statistical Parameter	Control	TC1507 High	TC1507 Low	P0760	P0589	XL5840
Prostate/Brain Wt (%)	Male	Mean	28.137	28.734	26.164	26.986	29.389	31.515 ^a
		95% CI	24.054 - 32.220	24.650 - 32.817	22.080 - 30.247	--	--	--
		Range	11.370 - 46.936	11.360 - 43.530	12.379 - 37.196	9.667 - 40.518	19.164 - 43.342	19.561 - 45.257
Prostate/Term BW (%)	Male	Mean	0.111	0.120	0.107	0.104	0.115	0.121 ^a
		95% CI	0.094 - 0.128	0.104 - 0.137	0.090 - 0.123	--	--	--
		Range	0.045 - 0.161	0.049 - 0.174	0.045 - 0.173	0.041 - 0.146	0.056 - 0.161	0.067 - 0.165
Seminal Vesicles (g)	Male	Mean	2.727	2.761	2.883	2.849	2.946	2.845 ^a
		95% CI	2.509 - 2.945	2.543 - 2.979	2.665 - 3.100	--	--	--
		Range	1.991 - 3.388	1.820 - 3.524	2.260 - 3.463	2.255 - 3.458	2.316 - 3.410	2.363 - 3.762
Seminal Vesicles/Brain Wt (%)	Male	Mean	120.949	119.575	127.568	124.765	131.205	126.171 ^a
		95% CI	111.140 - 130.758	109.766 - 129.384	117.759 - 137.377	--	--	--
		Range	89.226 - 153.512	70.543 - 146.781	95.520 - 154.824	95.188 - 152.901	109.209 - 146.885	100.124 - 159.881
Seminal Vesicles/Term BW (%)	Male	Mean	0.481	0.502	0.520	0.483	0.510	0.484 ^a
		95% CI	0.432 - 0.531	0.452 - 0.551	0.471 - 0.570	--	--	--
		Range	0.336 - 0.690	0.322 - 0.658	0.349 - 0.720	0.365 - 0.684	0.323 - 0.612	0.382 - 0.680
Testes (g)	Male	Mean	3.592	3.635	3.861**	3.807	3.769	3.932 ^a
		95% CI	3.388 - 3.796	3.431 - 3.839	3.657 - 4.065	--	--	--
		Range	3.226 - 4.246	2.255 - 4.362	3.202 - 4.325	3.111 - 4.391	3.328 - 4.292	3.301 - 5.093

	Gender	Statistical Parameter	Control	TC1507 High	TC1507 Low	P0760	P0589	XL5840
Testes/Brain Wt (%)	Male	Mean	159.372	156.865	170.554	166.703	168.599	174.417 ^a
		95% CI	150.340 - 168.404	147.833 - 165.897	161.522 - 179.586	--	--	--
		Range	140.222 - 188.175	101.394 - 185.066	145.389 - 191.626	132.270 - 196.367	139.464 - 212.370	149.822 - 234.917
Testes/Term BW (%)	Male	Mean	0.632	0.658	0.692**	0.644	0.652	0.668 ^a
		95% CI	0.591 - 0.672	0.617 - 0.698	0.652 - 0.733	--	--	--
		Range	0.514 - 0.756	0.401 - 0.771	0.564 - 0.827	0.489 - 0.831	0.543 - 0.792	0.561 - 0.897
Thymus ^c (g)	Female	Mean	0.235	0.258	0.244	0.312	0.265	0.266
		95% CI	0.209 - 0.264	0.229 - 0.289	0.218 - 0.275	--	--	--
		Range	0.147 - 0.358	0.194 - 0.517	0.175 - 0.338	0.178 - 0.516	0.152 - 0.492	0.196 - 0.407
	Male	Mean	0.337	0.348	0.292	0.347	0.362	0.335 ^a
		95% CI	0.300 - 0.378	0.310 - 0.391	0.260 - 0.328	--	--	--
		Range	0.183 - 0.483	0.230 - 0.591	0.222 - 0.427	0.202 - 0.506	0.227 - 0.539	0.224 - 0.534
Thymus/Brain Wt (%)	Female	Mean	11.909	12.887	12.211	15.337	12.972	12.905
		95% CI	10.267 - 13.552	11.244 - 14.529	10.568 - 13.853	--	--	--
		Range	6.825 - 17.714	9.291 - 22.826	8.750 - 15.951	8.322 - 26.353	7.423 - 23.351	9.257 - 18.342
	Male	Mean	15.420	15.504	13.104	15.176	16.146	14.980 ^a
		95% CI	13.777 - 17.063	13.861 - 17.147	11.462 - 14.747	--	--	--
		Range	7.784 - 21.471	9.707 - 24.811	9.924 - 19.105	9.014 - 23.361	9.768 - 23.578	9.520 - 24.631

	Gender	Statistical Parameter	Control	TC1507 High	TC1507 Low	P0760	P0589	XL5840
Thymus/Term BW (%)	Female	Mean	0.0877	0.0951	0.0884	0.1098	0.0917	0.0924
		95% CI	0.0764 - 0.0989	0.0838 - 0.1063	0.0771 - 0.0996	--	--	--
		Range	0.0485 - 0.1256	0.0710 - 0.1790	0.0666 - 0.1191	0.0655 - 0.1951	0.0513 - 0.1451	0.0684 - 0.1250
	Male	Mean	0.0605	0.0646	0.0532	0.0587	0.0625	0.0568 ^a
		95% CI	0.0530 - 0.0681	0.0571 - 0.0722	0.0457 - 0.0607	--	--	--
		Range	0.0342 - 0.0852	0.0401 - 0.0922	0.0385 - 0.0757	0.0324 - 0.0954	0.0407 - 0.0882	0.0398 - 0.0940
Ovaries (g)	Female	Mean	0.147	0.156	0.145	0.148	0.143	0.141
		95% CI	0.136 - 0.158	0.145 - 0.167	0.134 - 0.155	--	--	--
		Range	0.112 - 0.185	0.087 - 0.215	0.097 - 0.167	0.108 - 0.193	0.086 - 0.194	0.082 - 0.196
Ovaries/Brain Wt (%)	Female	Mean	7.190	7.580	7.082	7.221	7.012	6.826
		95% CI	6.732 - 7.647	7.122 - 8.037	6.625 - 7.540	--	--	--
		Range	5.296 - 8.762	4.703 - 10.297	4.809 - 8.599	5.268 - 9.395	4.519 - 9.057	4.307 - 9.163
Ovaries/Term BW (%)	Female	Mean	0.0530	0.0559	0.0513	0.0517	0.0496	0.0493
		95% CI	0.0498 - 0.0561	0.0528 - 0.0591	0.0481 - 0.0544	--	--	--
		Range	0.0437 - 0.0629	0.0334 - 0.0786	0.0346 - 0.0657	0.0355 - 0.0626	0.0332 - 0.0666	0.0314 - 0.0677
Uterus ^c (g)	Female	Mean	0.685	0.763	0.760	0.785	0.709	0.709
		95% CI	0.587 - 0.799	0.654 - 0.890	0.652 - 0.887	--	--	--
		Range	0.465 - 1.457	0.396 - 1.407	0.459 - 1.182	0.421 - 1.283	0.466 - 1.133	0.496 - 1.151

	Gender	Statistical Parameter	Control	TC1507 High	TC1507 Low	P0760	P0589	XL5840
Uterus/Brain Wt ^c (%)	Female	Mean	31.919	35.682	35.828	38.308	34.805	34.416
		95% CI	28.103 - 36.934	30.979 - 42.067	31.090 - 42.271	--	--	--
		Range	23.111 - 67.485	19.517 - 65.503	22.950 - 58.748	20.708 - 61.505	22.472 - 54.761	23.985 - 55.712
Uterus/Term BW ^c (%) ^a	Female	Mean	0.235	0.266	0.257	0.276	0.246	0.248
		95% CI	0.206 - 0.273	0.230 - 0.315	0.223 - 0.303	--	--	--
		Range	0.167 - 0.503	0.165 - 0.429	0.178 - 0.482	0.123 - 0.412	0.169 - 0.377	0.178 - 0.396
Pituitary ^c (g) ^a	Female	Mean	0.019	0.019	0.020	0.019	0.020	0.021
		95% CI	0.017 - 0.020	0.017 - 0.020	0.019 - 0.022	--	--	--
		Range	0.013 - 0.026	0.015 - 0.022	0.016 - 0.031	0.016 - 0.025	0.013 - 0.027	0.012 - 0.028
	Male	Mean	0.016	0.017	0.017	0.017	0.016	0.017 ^a
		95% CI	0.015 - 0.017	0.015 - 0.018	0.015 - 0.018	--	--	--
		Range	0.011 - 0.022	0.014 - 0.018	0.013 - 0.020	0.014 - 0.020	0.014 - 0.019	0.013 - 0.021
Pituitary/Brain Wt ^c (%)	Female	Mean	0.920	0.907	0.979	0.925	0.961	1.039
		95% CI	0.855 - 0.989	0.844 - 0.976	0.910 - 1.053	--	--	--
		Range	0.696 - 1.208	0.739 - 1.081	0.795 - 1.537	0.780 - 1.155	0.684 - 1.281	0.600 - 1.376
	Male	Mean	0.694	0.714	0.738	0.751	0.713	0.770 ^a
		95% CI	0.645 - 0.746	0.663 - 0.767	0.686 - 0.793	--	--	--
		Range	0.495 - 0.937	0.586 - 0.775	0.586 - 0.916	0.578 - 0.914	0.621 - 0.854	0.602 - 0.917

	Gender	Statistical Parameter	Control	TC1507 High	TC1507 Low	P0760	P0589	XL5840
Pituitary/Term BW (%)	Female	Mean	0.00687	0.00673	0.00716	0.00666	0.00680	0.00752
		95% CI	0.00631 - 0.00743	0.00617 - 0.00729	0.00660 - 0.00772	--	--	--
		Range	0.00522 - 0.00922	0.00543 - 0.00817	0.00560 - 0.01107	0.00527 - 0.00841	0.00439 - 0.00796	0.00457 - 0.01099
	Male	Mean	0.00278	0.00300	0.00300	0.00291	0.00276	0.00295 ^a
		95% CI	0.00259 - 0.00296	0.00282 - 0.00318	0.00282 - 0.00318	--	--	--
		Range	0.00204 - 0.00375	0.00242 - 0.00377	0.00247 - 0.00355	0.00189 - 0.00344	0.00209 - 0.00349	0.00220 - 0.00379
Thyroid (g)	Female	Mean	0.018	0.018	0.018	0.018	0.018	0.019 ^b
		95% CI	0.016 - 0.019	0.017 - 0.020	0.017 - 0.020	--	--	--
		Range	0.014 - 0.023	0.009 - 0.026	0.013 - 0.024	0.013 - 0.024	0.013 - 0.022	0.015 - 0.023
	Male	Mean	0.028	0.026	0.026	0.026	0.026	0.027 ^a
		95% CI	0.025 - 0.031	0.023 - 0.029	0.023 - 0.029	--	--	--
		Range	0.020 - 0.039	0.014 - 0.032	0.019 - 0.040	0.019 - 0.035	0.021 - 0.033	0.020 - 0.040
Thyroid/Brain Wt (%)	Female	Mean	0.879	0.895	0.888	0.900	0.904	0.926 ^b
		95% CI	0.800 - 0.958	0.816 - 0.974	0.810 - 0.967	--	--	--
		Range	0.650 - 1.139	0.433 - 1.148	0.632 - 1.174	0.661 - 1.171	0.634 - 1.113	0.701 - 1.153
	Male	Mean	1.238	1.113	1.135	1.154	1.153	1.215 ^a
		95% CI	1.105 - 1.370	0.980 - 1.245	1.003 - 1.267	--	--	--
		Range	0.895 - 1.702	0.586 - 1.429	0.849 - 1.801	0.877 - 1.600	0.953 - 1.534	0.923 - 1.650

	Gender	Statistical Parameter	Control	TC1507 High	TC1507 Low	P0760	P0589	XL5840
Thyroid/Term BW (%)	Female	Mean	0.00649	0.00658	0.00640	0.00650	0.00641	0.00660 ^b
		95% CI	0.00594 - 0.00704	0.00602 - 0.00713	0.00585 - 0.00695	--	--	--
		Range	0.00505 - 0.00848	0.00334 - 0.00900	0.00488 - 0.00762	0.00439 - 0.00841	0.00452 - 0.00776	0.00518 - 0.00818
	Male	Mean	0.00488	0.00464	0.00460	0.00449	0.00445	0.00465 ^a
		95% CI	0.00432 - 0.00543	0.00408 - 0.00519	0.00405 - 0.00515	--	--	--
		Range	0.00305 - 0.00616	0.00242 - 0.00566	0.00324 - 0.00786	0.00303 - 0.00611	0.00376 - 0.00592	0.00352 - 0.00630

Note: P0760, P0589 and XL5840 are commercial reference maize line groups. When a reported statistic was estimated to be $< 10^{-10}$ in absolute value, the value was set to zero.

^an=15, ^bn=14, otherwise n=16

^c Test and control data were transformed prior to analysis. The means are presented on the data scale (back-transformed), confidence interval (CI) are presented on the transformed scale. Reference arithmetic means were calculated from the raw data.

*Sex X Treatment interaction statistically significant at the 0.05 level

**Statistically significant difference when compared to control at the 0.05 level; FDR not significantly different

Table S11. Summary of Microscopic Incidence Findings

Finding ^a (n=16 per group)	Female			Male		
	Control	TC1507 High	TC1507 Low	Control	TC1507 High	TC1507 Low
Cecum: Inflammation, mucosal, minimal	0	0	1	1	3	2
Epididymides: Aggregates, lymphoid, minimal	-	-	-	3	2	1
Eyes: Fold/rosette, retinal, minimal	2	2	1	1	1	2
minimal	[2]	[2]	[0]	[1]	[1]	[2]
mild	[0]	[0]	[1]	[0]	[0]	[0]
Heart: Cardiomyopathy	4	1	0	10	11	9
minimal	[4]	[1]		[6]	[9]	[8]
mild	[0]	[0]		[4]	[2]	[1]
Kidney						
Aggregates, lymphoid	0	2	0	3	0	1
minimal		[2]		[3]		[0]
mild		[0]		[0]		[1]
Chronic progressive nephropathy	0	2	1	7	8	8
minimal		[2]	[1]	[6]	[7]	[6]
mild		[0]	[0]	[1]	[1]	[2]
Cyst, tubular	0	0	0	0	0	2
mild						[1]
moderate						[1]
Dilatation, tubular	0	0	3	4	3	3
minimal			[3]	[3]	[1]	[2]
mild			[0]	[0]	[1]	[1]
moderate			[0]	[1]	[1]	[0]
Inflammation, pelvis, unilateral	2	0	0	1	1	0
minimal	[1]			[1]	[1]	
mild	[1]			[0]	[0]	
Mineralization, medullary tubular	7	4	3	4	0	1
minimal	[6]	[3]	[2]	[4]		[1]
mild	[1]	[1]	[1]	[0]		[0]
Larynx: Inflammation, mucosal, minimal	3	0	0	2	1	0
Liver						
Fatty change, focal, minimal	1	0	1	3	0	1
Fatty change, median cleft	1	0	1	5	5	4
minimal	[1]		[1]	[3]	[3]	[4]
mild	[0]		[0]	[2]	[2]	[0]
Fatty change, portal	0	0	2	2	1	4
minimal			[1]	[2]	[1]	[3]
mild			[1]	[0]	[0]	[1]
Hyperplasia, bile duct	0	0	0	2	0	1
minimal				[0]		[1]
mild				[1]		[0]
moderate				[1]		[0]

Finding ^a (n=16 per group)	Female			Male		
	Control	TC1507 High	TC1507 Low	Control	TC1507 High	TC1507 Low
Infiltrate, mononuclear cell	6	4	7	4	6	8
minimal	[6]	[4]	[6]	[3]	[5]	[6]
mild	[0]	[0]	[1]	[1]	[1]	[2]
Inflammation/fibrosis, peribiliary	0	0	0	2	0	2
minimal				[1]		[1]
mild				[1]		[1]
Necrosis, focal	3	1	2	3	1	1
minimal	[3]	[1]	[2]	[2]	[1]	[1]
moderate	[0]	[0]	[0]	[1]	[0]	[0]
Lungs						
Histiocytosis, alveolar, minimal	1	3	1	4	1	4
Inflammation, interstitial	2	1	4	5	7	2
minimal	[2]	[1]	[4]	[4]	[5]	[2]
mild	[0]	[0]	[0]	[1]	[2]	[0]
Lymph Nodes - Mandibular						
Erythrocytosis/erythrophagocytosis, sinus	2	1	0	0	1	0
minimal	[2]	[0]			[1]	
mild	[0]	[1]			[0]	
Histiocytosis, sinus	3	5	4	0	0	2
minimal	[2]	[4]	[4]			[1]
mild	[1]	[1]	[0]			[1]
Hyperplasia, lymphoid, minimal	0	0	2	2	1	1
Hyperplasia, plasma cell	3	4	2	4	5	8
minimal	[2]	[3]	[1]	[3]	[4]	[4]
mild	[1]	[1]	[1]	[1]	[1]	[4]
Nose						
Degeneration/regeneration, olfactory epithelium	2	0	3	3	0	1
minimal	[1]		[1]	[1]		[1]
mild	[1]		[2]	[2]		[0]
Inflammation, turbinates, minimal	1	2	1	2	1	1
Oral cavity: inflammation, periodontal	4	1	5	3	2	3
minimal	[2]	[0]	[3]	[0]	[0]	[2]
mild	[1]	[1]	[1]	[3]	[2]	[1]
moderate	[1]	[0]	[1]	[0]	[0]	[0]
Teeth: fracture, moderate	0	2	0	0	0	0
Pancreas						
Aggregates, lymphoid, minimal	1	4	1	2	3	4
Atrophy, lobular, focal, minimal	1	1	0	2	2	0
Hyperplasia, islet cell, minimal	0	0	0	2	0	0
Inflammation/fibrosis, islet, minimal	0	0	0	2	1	0
Pigment, increased, minimal	0	0	0	3	1	1

Finding ^a (n=16 per group)	Female			Male		
	Control	TC1507 High	TC1507 Low	Control	TC1507 High	TC1507 Low
Peyers Patch: Mineralization, focal/multifocal	1	0	1	0	2	1
minimal	[1]		[0]		[1]	[1]
mild	[0]		[1]		[1]	[0]
Pituitary Gland: Hypertrophy, individual cell, minimal	0	0	0	3	1	0
Prostate						
Aggregates, lymphoid	-	-	-	12	9	11
minimal				[6]	[5]	[3]
mild				[4]	[3]	[5]
moderate				[2]	[1]	[3]
Inflammation, tubular	-	-	-	0	0	2
minimal						[1]
moderate						[1]
Salivary Glands						
Aggregates, lymphoid, minimal	1	2	0	2	0	3
Atrophy, lobular, focal, minimal	2	0	0	0	1	0
Hypertrophic focus, basophilic	4	5	2	7	4	3
minimal	[4]	[5]	[2]	[7]	[3]	[3]
mild	[0]	[0]	[0]	[0]	[1]	[0]
Metaplasia, acinar cell, minimal	3	3	3	1	1	1
Sternum: Deformity	3	0	1	0	0	0
minimal	[0]		[1]			
mild	[3]		[0]			
Testes						
Degeneration/atrophy, seminiferous epithelium, bilateral	-	-	-	2	2	0
minimal				[2]	[1]	
moderate				[0]	[1]	
Degeneration/atrophy, epithelium, unilateral, minimal	-	-	-	2	1	1
Thymus: Hemorrhage, minimal	1	2	0	0	1	1
Thyroid						
Cyst(s), ultimobranchial	0	2	1	0	2	2
minimal		[2]	[1]		[2]	[1]
mild		[0]	[0]		[0]	[1]
Hypertrophy, follicular cell	1	0	1	3	4	6
minimal	[1]		[1]	[3]	[3]	[4]
mild	[0]		[0]	[0]	[1]	[2]
Tongue						
Granuloma, focal	2	1	0	1	0	1
Minimal	[2]	[0]		[1]		[0]
mild	[0]	[1]		[0]		[1]
Lingual salivary glands: atrophy, lobular, focal, minimal	0	3	0	1	1	0

Finding ^a (n=16 per group)	Female			Male		
	Control	TC1507 High	TC1507 Low	Control	TC1507 High	TC1507 Low
Trachea						
Dilation, submucosal glands	4	3	3	4	3	3
minimal	[4]	[3]	[2]	[4]	[3]	[2]
mild	[0]	[0]	[1]	[0]	[0]	[0]
moderate	[0]	[0]	[0]	[0]	[0]	[1]
Inflammation, mucosal	2	0	0	0	0	1
minimal	[1]					[1]
mild	[1]					[0]
Urinary Bladder: Aggregates, lymphoid, minimal	0	0	0	0	0	3
Uterus: Dilatation, bilateral	3	5	7	-	-	-
Minimal	[0]	[1]	[1]			
mild	[1]	[2]	[5]			
moderate	[2]	[2]	[1]			

^a This table represents findings that occurred at an incidence >1 in any treatment group evaluated