

Table S1. HVT loads in pigmented and non-pigmented feathers, per chicken and per time as well as vitiligo scores.

	Bird Nber	Subject	Chicken Line	Date	Group	vitiligo score	Repigm	HVT Log(A)	HVT Log(B)	HVTLog (A,B)	HVT Log (A, B or (A,B))
Date Week 2	1	B1	BL	Wk2	BLW2	1		0,000	NA		0,000
	3	B2	BL	Wk2	BLW2	1		0,000	NA		0,000
	8	B3	BL	Wk2	BLW2	1		2,567	NA		2,567
	10	B4	BL	Wk2	BLW2	1		2,777	NA		2,777
	12	B5	BL	Wk2	BLW2	1		2,591	NA		2,591
	15	B6	BL	Wk2	BLW2	1		0,000	NA		0,000
	18	B7	BL	Wk2	BLW2	1		0,000	NA		0,000
	19	B8	BL	Wk2	BLW2	1		2,114	NA		2,114
	20	B9	BL	Wk2	BLW2	1		2,714	NA		2,714
	22	S1	SL	Wk2	SLW2	1		2,358	NA		2,358
	27	S2	SL	Wk2	SLW2	1		0,000	NA		0,000
	36	S4	SL	Wk2	SLW2	1		1,786	NA		1,786
	40	S5	SL	Wk2	SLW2	1		0,000	NA		0,000
	41	S6	SL	Wk2	SLW2	1		2,204	NA		2,204
	42	S7	SL	Wk2	SLW2	1		3,140	NA		3,140
	45	S8	SL	Wk2	SLW2	1		1,872	NA		1,872
	46	S9	SL	Wk2	SLW2	1		1,780	NA		1,780
Date Week 5	49	S11	SL	Wk2	SLW2	1		2,079	NA		2,079
	53	S12	SL	Wk2	SLW2	1		2,200	NA		2,200
	55	S13	SL	Wk2	SLW2	1		3,267	NA		3,267
	1	B1	BL	Wk5	BLW5	1		1,96	NA		1,96
	3	B2	BL	Wk5	BLW5	1		2,299	NA		2,299
	8	B3	BL	Wk5	BLW5	1		1,669	NA		1,669
	10	B4	BL	Wk5	BLW5	1		3,179	NA		3,179
	12	B5	BL	Wk5	BLW5	1		2,895	NA		2,895
	15	B6	BL	Wk5	BLW5	1		0,000	NA		0,000
	18	B7	BL	Wk5	BLW5	1		3,988	NA		3,988
	19	B8	BL	Wk5	BLW5	1		0,000	NA		0,000
	20	B9	BL	Wk5	BLW5	1		2,884	NA		2,884
	22	S1	SL	Wk5	SLW5	1		2,200	NA		2,200
	27	S2	SL	Wk5	SLW5	1		2,350	NA		2,350
	36	S4	SL	Wk5	SLW5	1		2,889	NA		2,889
	40	S5	SL	Wk5	SLW5	1		0,000	NA		0,000
	41	S6	SL	Wk5	SLW5	1		2,701	NA		2,701
Date Week 8	42	S7	SL	Wk5	SLW5	1		2,993	NA		2,993
	45	S8	SL	Wk5	SLW5	1		2,548	NA		2,548
	46	S9	SL	Wk5	SLW5	1		0,000	NA		0,000
	49	S11	SL	Wk5	SLW5	1		0,000	NA		0,000
	53	S12	SL	Wk5	SLW5	1		2,130	NA		2,130
	55	S13	SL	Wk5	SLW5	1		2,609	NA		2,609
	1	B1	BL	Wk8	BLW8	1		2,185	NA		2,185
	3	B2	BL	Wk8	BLW8	1		2,496	NA		2,496
	8	B3	BL	Wk8	BLW8	4	R	2,751	na		2,751
	10	B4	BL	Wk8	BLW8	1		2,590	NA		2,590
	12	B5	BL	Wk8	BLW8	1		1,710	NA		1,710
	15	B6	BL	Wk8	BLW8	1		0,000	NA		0,000
	18	B7	BL	Wk8	BLW8	1		1,701	NA		1,701
	19	B8	BL	Wk8	BLW8	1		1,800	NA		1,800
	20	B9	BL	Wk8	BLW8	1		2,760	NA		2,760
	22	S1	SL	Wk8	SLW8	4		3,778	3,389	3,584	3,584
	27	S2	SL	Wk8	SLW8	3		2,775	2,930	2,853	2,853
Date week 11	36	S4	SL	Wk8	SLW8	1		3,037	NA		3,037
	40	S5	SL	Wk8	SLW8	1		3,283	NA		3,283
	41	S6	SL	Wk8	SLW8	1		2,513	NA		2,513
	42	S7	SL	Wk8	SLW8	1		2,761	NA		2,761
	45	S8	SL	Wk8	SLW8	5		na	3,140		3,140
	46	S9	SL	Wk8	SLW8	1		3,079	NA		3,079
	49	S11	SL	Wk8	SLW8	1		3,286	NA		3,286
	53	S12	SL	Wk8	SLW8	1		3,332	NA		3,332
	55	S13	SL	Wk8	SLW8	1		3,041	NA		3,041
	1	B1	BL	Wk11	BLW11	1		2,852	NA		2,852
	3	B2	BL	Wk11	BLW11	1		1,873	NA		1,873
	8	B3	BL	Wk11	BLW11	4		3,076	2,665	2,870	2,870
	10	B4	BL	Wk11	BLW11	1		2,657	NA		2,657
	12	B5	BL	Wk11	BLW11	1		2,511	NA		2,511
	15	B6	BL	Wk11	BLW11	1		2,377	NA		2,377
	18	B7	BL	Wk11	BLW11	1		0,000	NA		0,000
	19	B8	BL	Wk11	BLW11	1		2,629	NA		2,629
	20	B9	BL	Wk11	BLW11	1		0,000	NA		0,000
Date week 14	22	S1	SL	Wk11	SLW11	2	R	3,452	na		3,452
	27	S2	SL	Wk11	SLW11	3		2,986	3,004	2,995	2,995
	36	S4	SL	Wk11	SLW11	5		na	2,560		2,560
	40	S5	SL	Wk11	SLW11	1		2,936	NA		2,936
	41	S6	SL	Wk11	SLW11	1		3,255	NA		3,255
	42	S7	SL	Wk11	SLW11	1		3,265	NA		3,265
	45	S8	SL	Wk11	SLW11	5		na	3,940		3,940
	46	S9	SL	Wk11	SLW11	1		2,210	NA		2,210
	49	S11	SL	Wk11	SLW11	2	R	3,009	na		3,009
	53	S12	SL	Wk11	SLW11	1		1,885	NA		1,885
	55	S13	SL	Wk11	SLW11	5		na	2,775		2,775
	1	B1	BL	Wk14	BLW14	1		2,786	NA		2,786
	3	B2	BL	Wk14	BLW14	1		3,410	NA		3,410
	8	B3	BL	Wk14	BLW14	4	R	3,210	na		3,210
	10	B4	BL	Wk14	BLW14	1		2,863	NA		2,863
	12	B5	BL	Wk14	BLW14	1		2,782	NA		2,782
	15	B6	BL	Wk14	BLW14	1		0,000	NA		0,000

Date week 17	18	B7	BL	Wk14	BLW14	1		0,000	NA		0,000
	19	B8	BL	Wk14	BLW14	1		2,994	NA		2,994
	20	B9	BL	Wk14	BLW14	1		4,017	NA		4,017
	22	S1	SL	Wk14	SLW14	2	R	3,270	na		3,270
	27	S2	SL	Wk14	SLW14	4		1,929	2,974	2,451	2,451
	36	S4	SL	Wk14	SLW14	4		2,446	2,665	2,555	2,555
	40	S5	SL	Wk14	SLW14	2	R	3,336	na		3,336
	41	S6	SL	Wk14	SLW14	4		3,190	2,946	3,068	3,068
	42	S7	SL	Wk14	SLW14	1		3,951	NA		3,951
	45	S8	SL	Wk14	SLW14	5		na	2,931		2,931
	46	S9	SL	Wk14	SLW14	1		2,985	NA		2,985
	49	S11	SL	Wk14	SLW14	5		na	2,504		2,504
	53	S12	SL	Wk14	SLW14	1		2,714	NA		2,714
	55	S13	SL	Wk14	SLW14	5		na	1,794		1,794
Date week 17	1	B1	BL	Wk17	BLW17	1		2,415	NA		2,415
	3	B2	BL	Wk17	BLW17	1		3,152	NA		3,152
	8	B3	BL	Wk17	BLW17	2	R	3,455	na		3,455
	10	B4	BL	Wk17	BLW17	1		4,384	NA		4,384
	12	B5	BL	Wk17	BLW17	1		3,722	NA		3,722
	15	B6	BL	Wk17	BLW17	1		2,455	NA		2,455
	18	B7	BL	Wk17	BLW17	1		2,083	NA		2,083
	19	B8	BL	Wk17	BLW17	1		3,114	NA		3,114
	20	B9	BL	Wk17	BLW17	1		3,207	NA		3,207
	22	S1	SL	Wk17	SLW17	2	R	3,568	na		3,568
	27	S2	SL	Wk17	SLW17	5		na	3,143		3,143
	36	S4	SL	Wk17	SLW17	5		na	2,364		2,364
	40	S5	SL	Wk17	SLW17	5		na	3,155		3,155
	41	S6	SL	Wk17	SLW17	5		na	3,644		3,644
	42	S7	SL	Wk17	SLW17	5		na	3,255		3,255
Date Week 20	45	S8	SL	Wk17	SLW17	5		na	2,633		2,633
	46	S9	SL	Wk17	SLW17	3		3,127	2,992	3,059	3,059
	49	S11	SL	Wk17	SLW17	5		na	2,645		2,645
	53	S12	SL	Wk17	SLW17	1		2,912	NA		2,912
	55	S13	SL	Wk17	SLW17	5		na	2,829		2,829
	1	B1	BL	Wk20	BLW20	1		1,455	NA		1,455
	3	B2	BL	Wk20	BLW20	1		2,821	NA		2,821
	8	B3	BL	Wk20	BLW20	5		na	3,241		3,241
	10	B4	BL	Wk20	BLW20	1		3,009	NA		3,009
	12	B5	BL	Wk20	BLW20	1		3,057	NA		3,057
	15	B6	BL	Wk20	BLW20	1		2,734	NA		2,734
	18	B7	BL	Wk20	BLW20	1		0,000	NA		0,000
	19	B8	BL	Wk20	BLW20	1		3,167	NA		3,167
	20	B9	BL	Wk20	BLW20	1		3,354	NA		3,354
	22	S1	SL	Wk20	SLW20	5		na	2,799		2,799
	27	S2	SL	Wk20	SLW20	5		na	2,970		2,970
	36	S4	SL	Wk20	SLW20	5		na	0,000		0,000
	40	S5	SL	Wk20	SLW20	5		na	3,798		3,798
	41	S6	SL	Wk20	SLW20	5		na	2,447		2,447
	42	S7	SL	Wk20	SLW20	5		na	4,041		4,041
	45	S8	SL	Wk20	SLW20	5		na	2,951		2,951
	46	S9	SL	Wk20	SLW20	5		na	3,201		3,201
	49	S11	SL	Wk20	SLW20	5		na	2,787		2,787
	53	S12	SL	Wk20	SLW20	4		2,958	3,185	3,071	3,071
	55	S13	SL	Wk20	SLW20	5		na	3,316		3,316

If birds has vitiligo: sample A is pigmented; sample B is not pigmented; score of 1 = no vitiligo; score of 5 = complete vitiligo
R = repigmentation - i.e., bird had vitiligo episode but all new growth is pigmented; in birds with a score of 4, often times the A sample is not fully pigmented, but not white like the B sample

NA, not developed vitiligo, yet
na, only one type of feathers (either pigmented or not) after vitiligo devlpt
HVTLog (A,B), means of the 2 values in feathers A and B when available
Missing value which was reimputed