

Supplementary Materials: Genetic Diversity in Apple Fruit Moth Indicate Different Clusters in the Two Most Important Apple Growing Regions of Norway

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Table S1. List of 95 *A. conjugella* individuals used in the study. F = female and M = Male.

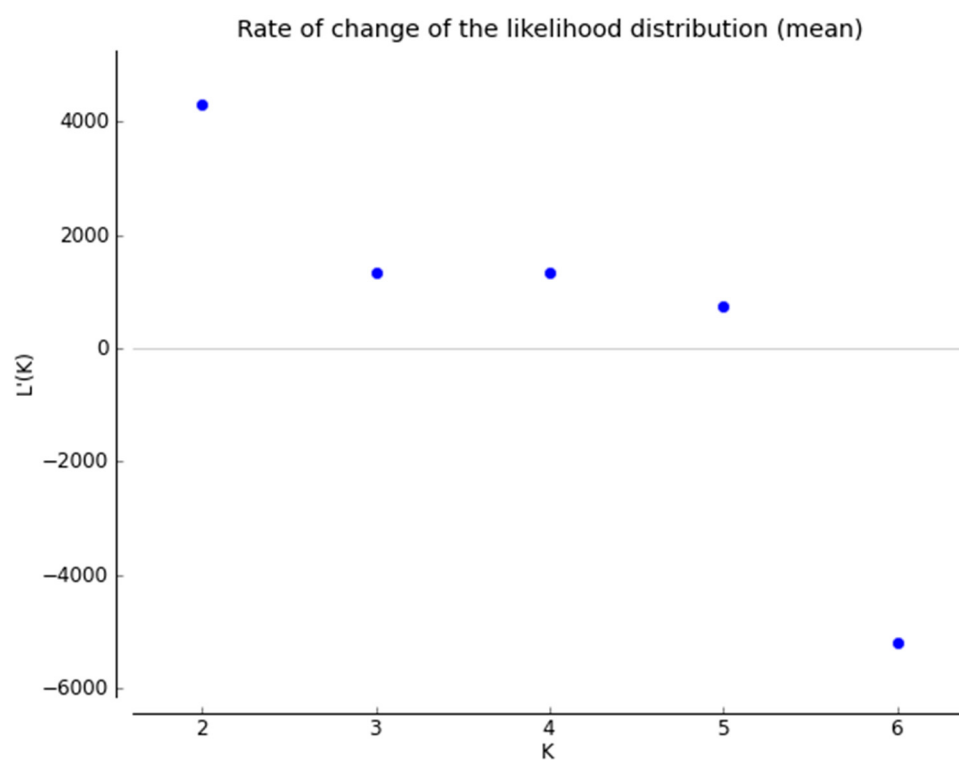
Region	Sample	Geographical Location	Id	Sex	Region	Sample	Geographical Location	Id	Sex
West	1	Espe	1EM	M	East	65	Storsand	65RM	M
West	2	Espe	2EM	M	East	66	Storsand	66RM	M
West	3	Espe	3EM	M	East	67	Storsand	67RM	M
West	4	Espe	4EM	M	East	68	Storsand	68RM	M
West	5	Espe	5EM	M	East	69	Storsand	69RM	M
West	6	Espe	6EM	M	East	70	Storsand	70RM	M
West	7	Espe	7EM	M	East	71	Storsand	71RM	M
West	8	Espe	8EM	M	East	72	Storsand	72RM	M
West	10	Espe	10EF	F	East	73	Storsand	73RF	F
West	11	Espe	11EF	F	East	74	Storsand	74RF	F
West	12	Espe	12EF	F	East	75	Storsand	75RF	F
West	13	Espe	13EF	F	East	76	Storsand	76RF	F
West	14	Espe	14EF	F	East	77	Storsand	77RF	F
West	15	Espe	15EF	F	East	78	Storsand	78RF	F
West	16	Espe	16EF	F	East	79	Storsand	79RF	F
West	33	Sekse	33SM	M	East	80	Storsand	80RF	F
West	34	Sekse	34SM	M	East	17	Fagerstrand	17FM	M
West	35	Sekse	35SM	M	East	18	Fagerstrand	18FM	M
West	36	Sekse	36SM	M	East	19	Fagerstrand	19FM	M
West	37	Sekse	37SM	M	East	20	Fagerstrand	20FM	M
West	38	Sekse	38SM	M	East	21	Fagerstrand	21FM	M
West	39	Sekse	39SM	M	East	22	Fagerstrand	22FM	M
West	40	Sekse	40SM	M	East	23	Fagerstrand	23FM	M
West	41	Sekse	41SF	F	East	24	Fagerstrand	24FM	M
West	42	Sekse	42SF	F	East	25	Fagerstrand	25FF	F
West	43	Sekse	43SF	F	East	26	Fagerstrand	26FF	F
West	44	Sekse	44SF	F	East	27	Fagerstrand	27FF	F
West	45	Sekse	45SF	F	East	28	Fagerstrand	28FF	F
West	46	Sekse	46SF	F	East	29	Fagerstrand	29FF	F
West	47	Sekse	47SF	F	East	30	Fagerstrand	30FF	F
West	48	Stana	48SF	F	East	31	Fagerstrand	31FF	F
West	49	Stana	49STM	M	East	32	Fagerstrand	32FF	F
West	50	Stana	50STM	M	East	81	Telemark	81TM	M
West	51	Stana	51STM	M	East	82	Telemark	82TM	M
West	52	Stana	52STM	M	East	83	Telemark	83TM	M
West	53	Stana	53STM	M	East	84	Telemark	84TM	M
West	54	Stana	54STM	M	East	85	Telemark	85TM	M
West	55	Stana	55STM	M	East	86	Telemark	86TM	M
West	56	Stana	56STM	M	East	87	Telemark	87TM	M
West	57	Stana	57STF	F	East	88	Telemark	88TM	M
West	58	Stana	58STF	F	East	89	Telemark	89TF	F
West	59	Stana	59STF	F	East	90	Telemark	90TF	F
West	60	Stana	60STF	F	East	91	Telemark	91TF	F
West	61	Stana	61STF	F	East	92	Telemark	92TF	F
West	62	Stana	62STF	F	East	93	Telemark	93TF	F
West	63	Stana	63STF	F	East	94	Telemark	94TF	F
West	64	Stana	64STF	F	East	95	Telemark	95TF	F
					East	96	Telemark	96TF	F

Table S2. Analysis of molecular variance (AMOVA) of 47 *A. conjugella* within the Western populations (Espe, Sekse and Stana) using 410 AFLP markers.

Source of Variation	d.f.	Sum of Squares	Variance Components	Percentage of Variation
Among populations	2	163.583	0.53038	0.72
Within populations	44	3298.750	73.30556	99.28
Total	46	3462.333	73.83594	

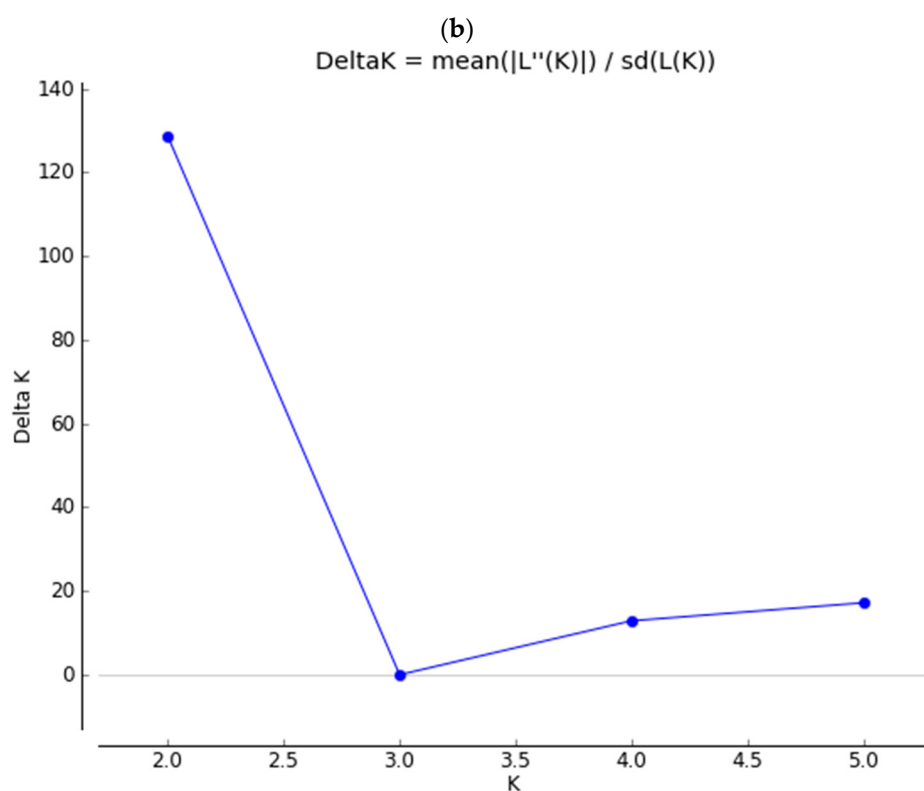
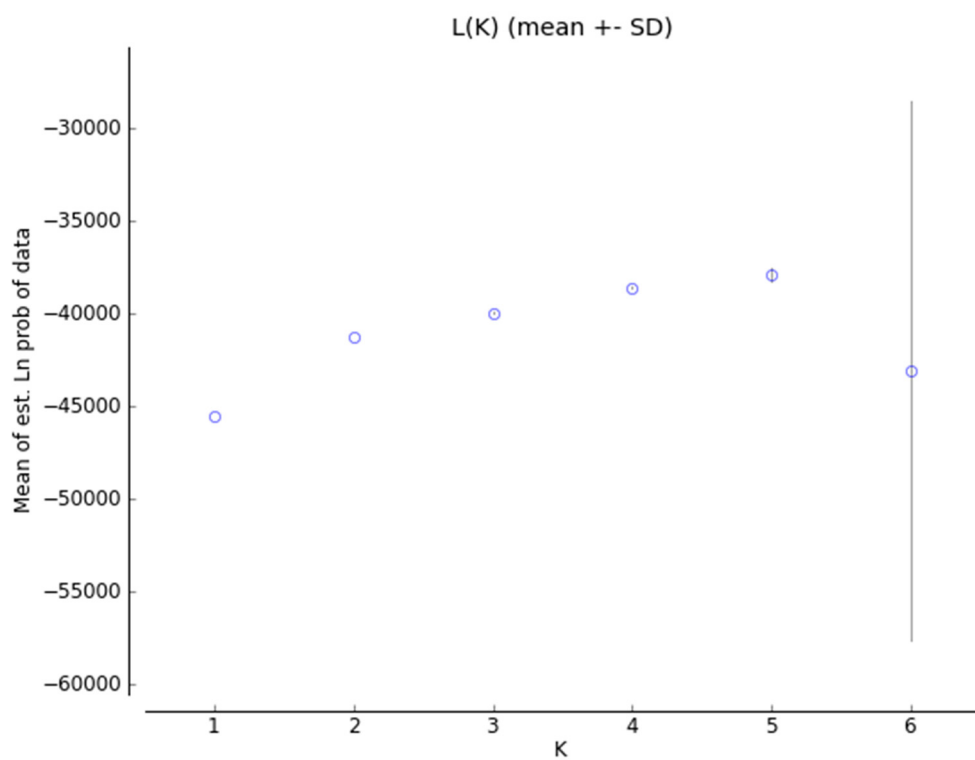
Table S3. Analysis of molecular variance (AMOVA) of 48 *A. conjugella* within the Eastern populations (Fagstrand, Storsand and Telemark) using 410 AFLP markers.

Source of Variation	d.f.	Sum of Squares	Variance Components	Percentage of Variation
Among populations	2	396.417	8.09167	10.53
Within populations	45	3093.375	68.74167	89.47
Total	47	3489.792	76.83333	



(a)

Figure S1. Cont.



(c)

Figure S1. Structure analyses summary. The figure summarizes the values for 6 independent runs for each of $K = 1-6$. (a): Rate of change of the likelihood distribution (mean); (b): $L(K)$ (mean $\pm$ SD) and (c): $\Delta K = \text{mean}(|L''(K)|) / \text{sd}(L(K))$.

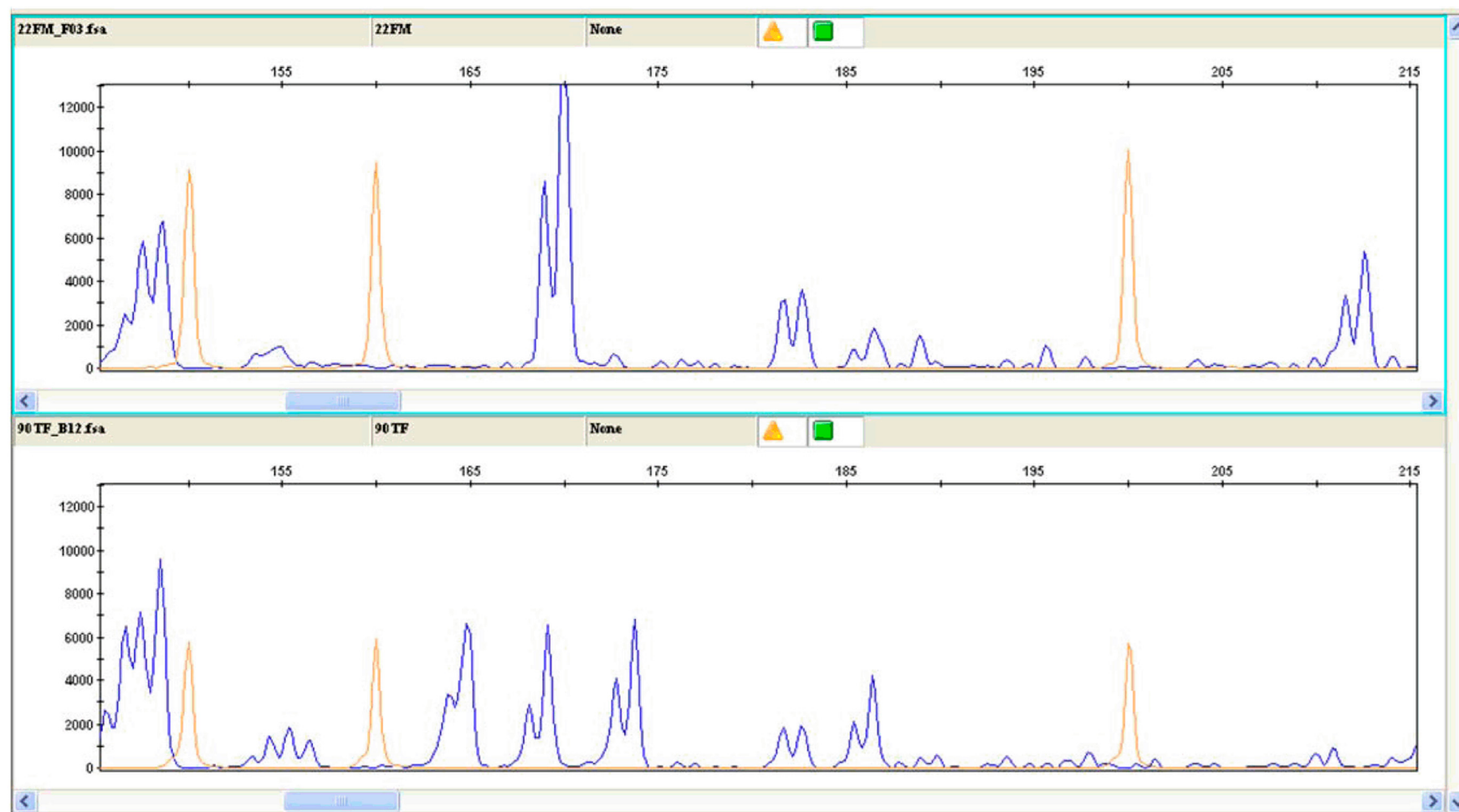


Figure S2. Representative AFLP runs (ABI 3730), showing one individual from the Western region (upper panel) and one individual from the Eastern region (lower panel). X-axis; fragment length (bp), and Y-axis; Rfu values. AFLP patterns obtained with primer E19 X M17.