

New Phytologist Supporting Information

Article title: Variation in sexual dimorphism in a wind-pollinated plant: the influence of geographical context and life-cycle dynamics

Authors: Gemma Puixeu, Melinda Pickup, David L. Field, Spencer C. H. Barrett

The following Supporting Information is available for this article:

Figure S1. The geographic distribution of the 30 sampled populations of *Rumex hastatulus* across the southern USA

Figure S2. Plant height across life-cycle stages and populations of *Rumex hastatulus*

Figure S3. Sexual dimorphism (%SD) among populations at (a) week 4 and (b) week 8 in *Rumex hastatulus*

Figure S4. Bioclimatic variables across the geographical range of *Rumex hastatulus*

Table S1. Summary of univariate results for common glasshouse study of *Rumex hastatulus*

Table S2. Variation in sexual dimorphism across geographical gradients for populations of *Rumex hastatulus*

Table S3. Sexual dimorphism and sex-specific trait mean variation along climatic gradients for populations of *Rumex hastatulus*

Figure S1. The geographic distribution of the 30 sampled populations of *Rumex hastatulus* across the southern USA representing the Texas (open circles) and North Carolina (closed circles) chromosome races.

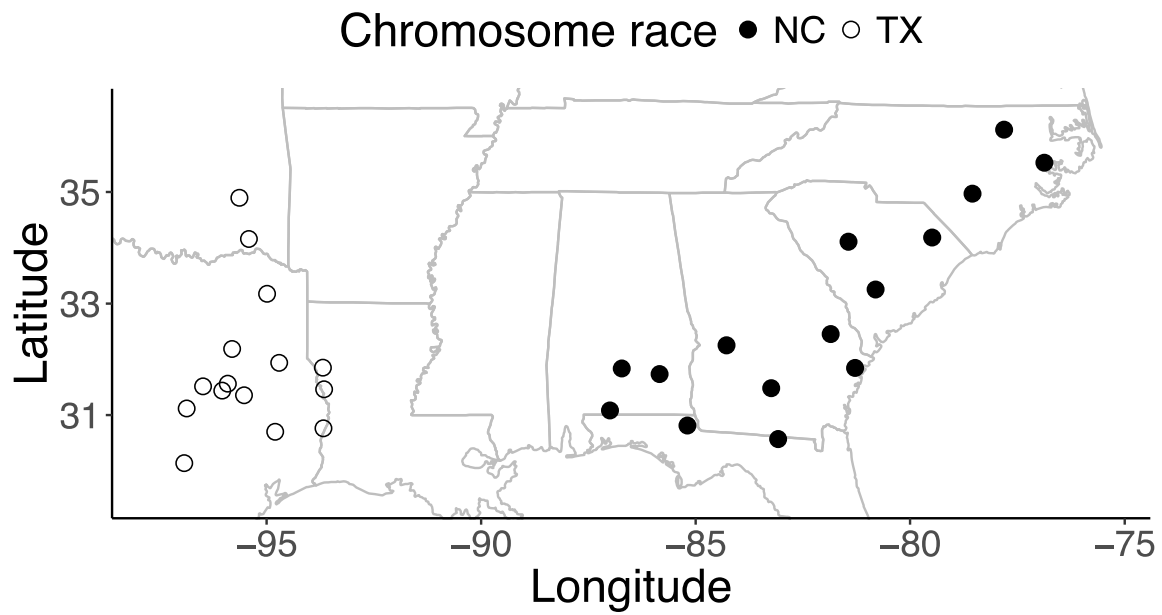


Figure S2. Plant height across life-cycle stages and populations of *Rumex hastatulus*. Predicted means and 95% confidence intervals for males (orange squares) and females (green circles) for each population (individual points) and overall values for each sex (dashed lines and color shading) at weeks 2, 4 and 8. Significance of sex differences per population and overall is indicated with stars above individual bars and at the lower right corner, respectively. * $0.01 < P < 0.05$, ** $0.001 < P < 0.01$, *** $P < 0.001$. ns (or absence of asterisks on individual points) = not statistically significant.

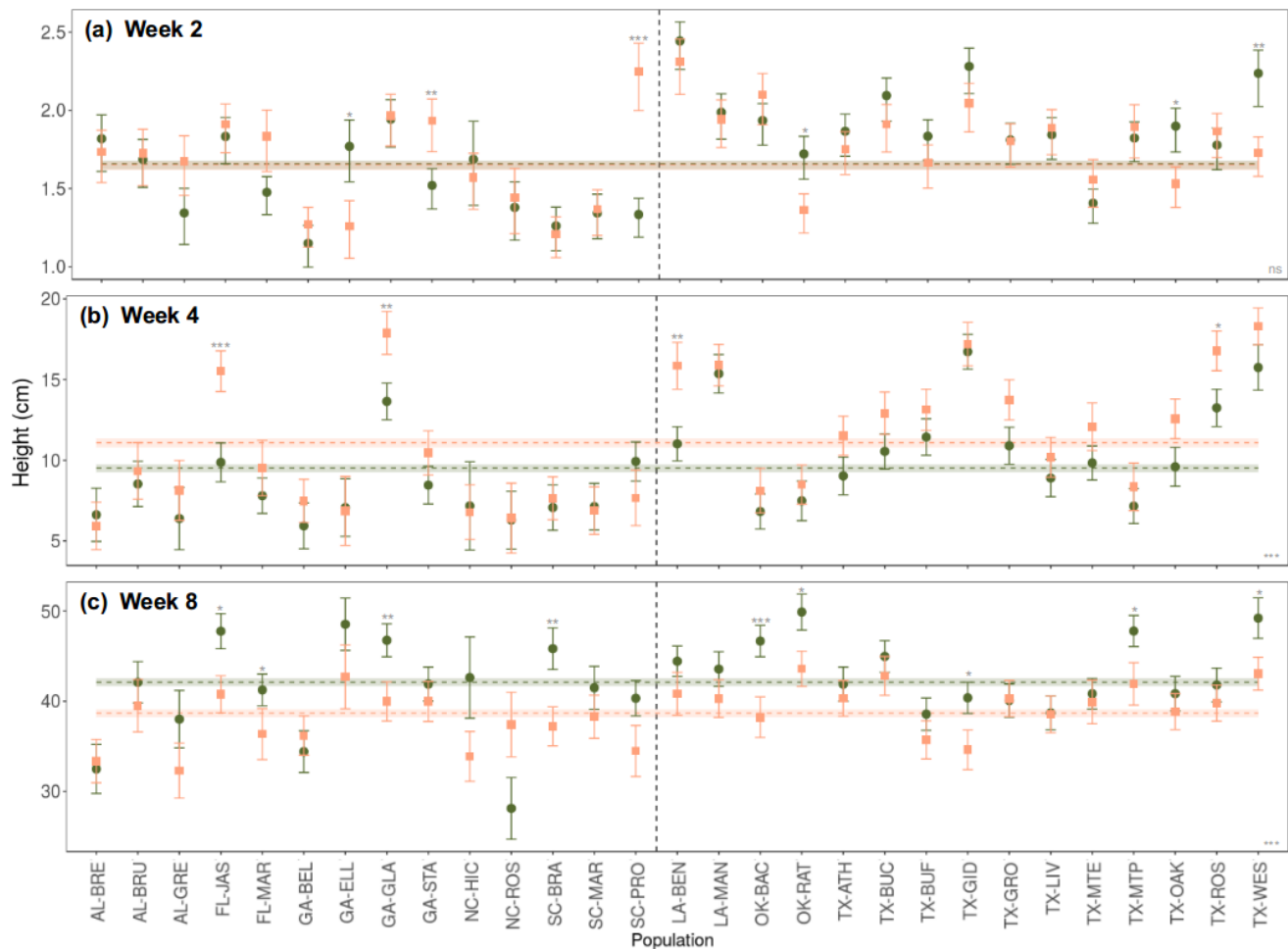


Figure S3. Sexual dimorphism (%SD) among populations at (a) week 4 and (b) week 8 in *Rumex hastatulus*. Percent sexual dimorphism (see the Materials and Methods section) for each population plotted according to its geographical location (longitude and latitude). Green (orange) indicates female (male) bias. Significant variation between sexes and among populations and their interaction obtained from GLMM (see the Materials and Methods section) is indicated as “S”, “P” and “SxP” in the upper left corner, respectively.

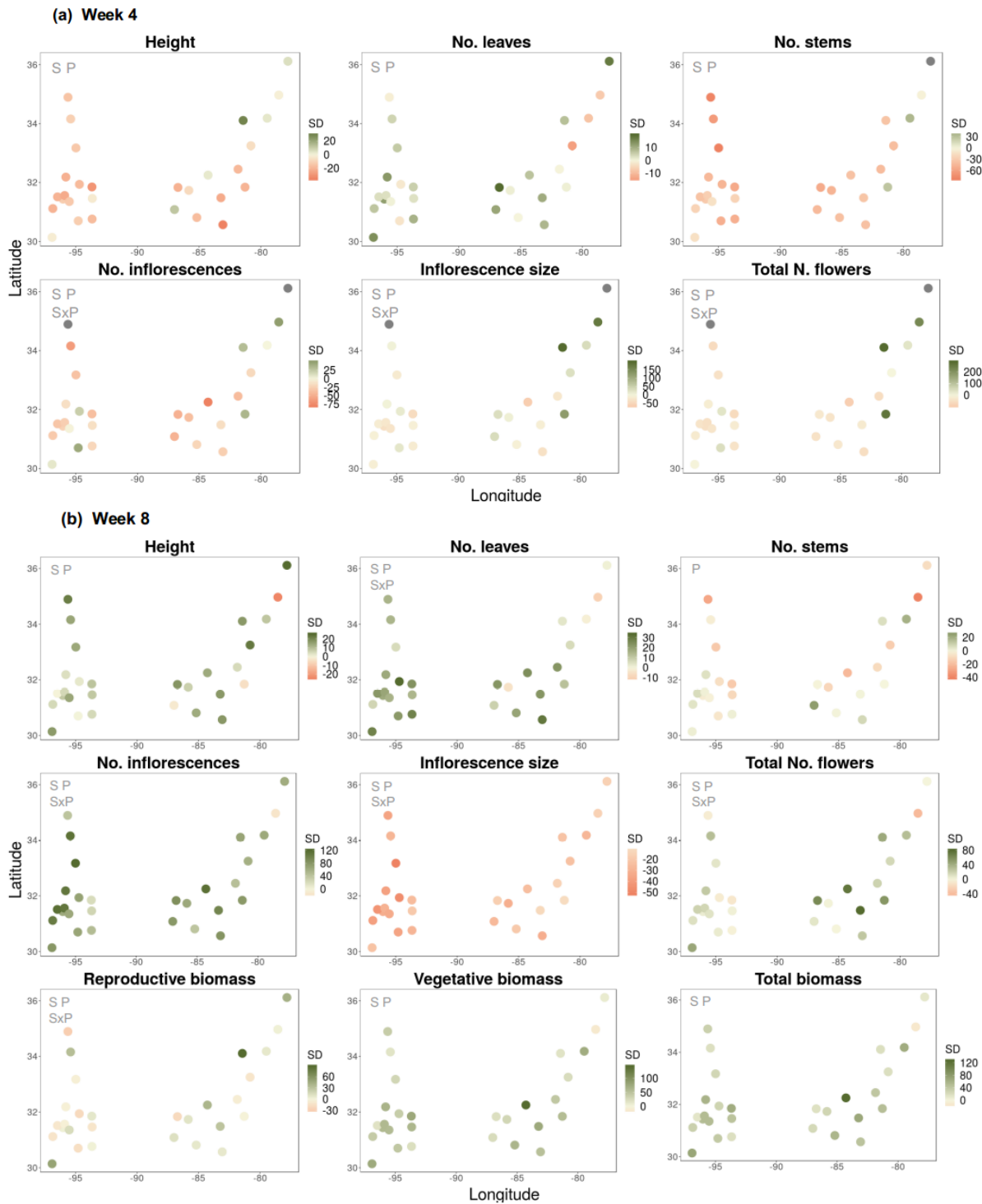


Figure S4. Bioclimatic variables across the geographical range of *Rumex hastatulus*. (a) Matrix showing the patterns of Spearman rank correlations among bioclimatic variables extracted from WorldClim (see the Materials and Methods section). The specifications of each one are as follows; Bio1: annual mean temperature. Bio2: mean diurnal range (mean of monthly (max temp - min temp)). Bio3: isothermality (bio2/bio7)(*100). Bio4: temperature seasonality (standard deviation *100). Bio5: max temperature of warmest month. Bio6: min temperature of coldest month. Bio7: temperature annual range (Bio5-Bio6). Bio8: mean temperature of wettest quarter. Bio9: mean temperature of driest quarter. Bio10: mean temperature of warmest quarter. Bio11: mean temperature of coldest quarter. Bio12: annual precipitation. Bio13: precipitation of wettest month. Bio14: precipitation of driest month. Bio15: precipitation seasonality (coefficient of variation). Bio16: precipitation of wettest quarter. Bio17: precipitation of driest quarter. Bio18: precipitation of warmest quarter. Bio19: precipitation of coldest quarter global potential evapotranspiration (mm). Pet.avg: global potential evapotranspiration (mm). Bio1, Bio7 and Bio12 (green squares) are the variables we used for further analyses. (b) Populations of the North Carolina (green) and Texas (orange) chromosome races projected in the first two principal components from all bioclimatic variables (left) and in the three bioclimatic variables used in the models (right). The contribution of each principal component to the total variance is indicated in the x and y axis respectively. (c) Patterns of Spearman rank correlations between the bioclimatic variables used in the models and geographical parameters. In (a) and (c) color indicates correlation coefficient (blue for positive and red for negative). * $0.01 < P < 0.05$, ** $0.001 < P < 0.01$, *** $P < 0.001$

Table S1. Summary of univariate results for common glasshouse study of *Rumex hastatulus*. For each trait, “Data” included in the specific model, “Probability distribution and link function” used for the GLMM that best fitted the data (see the Materials and Methods section). Significance of each “Term” of the model was assessed with ANOVA type 2, which outputted the respective “Chisq” and “P”-value with the specified degrees of freedom (“DF”). The traits considered are height (cm), number of leaves, leaf size (cm), number of stems, flowering (binary: yes or no. Excluded at week 8, since all plants are flowering), proportion of flowering stems (including only flowering individuals), number of inflorescences, inflorescence size (mm, average of 3 inflorescences measured per plant), total flower number (inflorescence number x size; as an integrative flowering measure) and biomass (reproductive, vegetative and total). See the Materials and Methods section for more information. In green, models used in Fig. 1; in blue, models used in Fig. 2; in orange, models used in Fig. S3; highlighted in yellow, significant sex-by-population interactions; in bold, significant results ($P < 0.05$).

Height

Data	Probability distribution and link function	Term	DF	Chisq	P
Overall model	gaussian log link	sex chr.race timepoint sex:chr.race sex:timepoint chr.race:timepoint sex:chr.race:timepoint	1 1 2 1 2 2 2	63.7469309 6.5934002 6521.559524 1.2646441 60.9566951 26.9118293 0.6109309	1.414738e-15 1.023575e-02 0.000000e+00 2.607739e-01 5.799918e-14 1.432750e-06 7.367804e-01
Week 2 sex:chr.race	gaussian log link	sex chr.race sex:chr.race	1 1 1	1.398911 8.883597 10.681468	0.236906072 0.002877440 0.001082142
Week 2 sex in chrNC	gaussian log link	sex	1	5.758235	0.01641
Week 2 sex in chrTX	gaussian log link	sex	1	7.0128	0.008093
Week 2 sex:population	gaussian log link	sex population sex:population	1 28 28	0.9044198 120.4373685 56.8418676	3.415994e-01 1.962462e-13 1.014406e-03
Week 2 sex:population in chrNC	gaussian log link	sex population sex:population	1 13 13	7.756766 42.041275 31.387678	0.00535116836 0.00006448248 0.00295804878
Week 2 sex:population in chrTX	gaussian log link	sex population sex:population	1 14 14	6.673605 51.331086 18.475703	0.009785106436 0.000003647968 0.185965556560
Week 4 and 8 sex:chr.race	gaussian identity link	sex chr.race timepoint sex:chr.race sex:timepoint chr.race:timepoint sex:chr.race:timepoint	1 1 1 1 1 1 1	6.51473643 9.67085386 9534.27017079 1.18668734 75.28170565 1.91703140 0.08981531	1.069842e-02 1.872143e-03 0.000000e+00 2.759988e-01 4.081237e-18 1.661843e-01 7.644121e-01
Week 4 sex:chr race	gaussian log link	sex chr.race sex:chr.race	1 1 1	49.3117208 13.0041815 0.7050846	2.183540e-12 3.107962e-04 4.010805e-01
Week 4 sex:population	gaussian identity link	sex population sex:population	1 28 28	34.01873 306.96430 25.84712	5.458412e-09 1.014322e-48 5.814477e-01
Week 8 sex:chr race	gaussian identity link	sex chr.race sex:chr.race	1 1 1	43.5352902 3.4805425 0.4136996	4.163823e-11 6.209438e-02 5.200977e-01
Week 8 sex:population	gaussian identity link	sex population sex:population	1 28 28	42.84307 124.38003 34.31265	5.931183e-11 4.120350e-14 1.907682e-01

Number of leaves

Data	Probability distribution and link function	Term	DF	Chisq	P
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Overall model	poisson log link	sex chr.race timepoint sex:chr.race sex:timepoint chr.race:timepoint sex:chr.race:timepoint	1 1 2 1 2 2 2	73.416745 7.270067 22192.361799 2.974602 75.198294 731.792670 7.597839	1.049718e-17 7.011317e-03 0.000000e+00 8.458094e-02 4.687032e-17 1.239484e-159 2.239496e-02
Week 2 sex:chr.race	poisson log link	sex chr.race sex:chr.race	1 1 1	1.7288694 119.2117480 0.1774768	1.885554e-01 9.412581e-28 6.735506e-01
Week 2 sex:population	poisson log link	sex population sex:population	1 28 28	1.2058196 187.9635 10.5318687	0.2721616 1.268683e-25 0.9988671
Week 4 and 8 sex:chr.race	poisson log link	sex chr.race timepoint sex:chr.race sex:timepoint chr.race:timepoint sex:chr.race:timepoint	1 1 1 1 1 1 1	89.02813 1.3142692 654.9329 8.618317291 30.176146505 233.9688 1.240379	3.892376e-21 0.2516231 1.889297e-144 0.003327991 0.0000000394532 8.125592e-53 0.265398
Week 4 sex:chr.race	poisson log link	sex chr.race sex:chr.race	1 1 1	12.6242005920 84.43197 0.7229596	0.0003807847 3.976658e-20 0.3951748
Week 4 sex:population	poisson log link	sex population sex:population	1 28 28	12.7083088276 670.6441 30.1928560	0.0003640345 2.662750e-123 0.3540585
Week 8 sex:chr.race	poisson log link	sex chr.race sex:chr.race	1 1 1	207.2982e 2.3678743 6.954425910	5.337548e-47 0.1238556 0.008361212
Week 8 sex:chr.race in chrNC	poisson log link	sex	1	44.646	2.361e-11
Week 8 sex:chr.race in chrTX	poisson log link	sex	1	170.09	7.071646e-39
Week 8 sex:population	poisson log link	sex population sex:population	1 28 28	205.6912 313.1892 66.214854104	1.196685e-46 5.848013e-50 0.00006179246
Week 8 sex:population in chrNC	poisson log link	sex population sex:population	1 13 13	44.89326 68.1016174969 38.9824332442	2.080726e-11 0.0000000017914 0.0002012385
Week 8 sex:population in chrTX	poisson log link	sex population sex:population	1 14 14	168.6908 240.0367 20.2902589	1.429244e-38 3.287855e-43 0.1212526

Leaf size

Data	Probability distribution and link function	Term	DF	Chisq	P
Overall model (weeks 4 and 8)	gaussian identity link	sex chr.race timepoint	1 1 1	21.179459869559 0.3881972 18.89039239322	0.000004182227 0.5332486 0.00001384482

		sex:chr.race sex:timepoint chr.race:timepoint sex:chr.race:timepoint	1 1 1 1	0.4726430 16.53367156729 174.192938878060 0.02318004	0.4917738 0.00004779377 8.983599e-20 0.87898982
Week 4 sex:chr.race	gamma log link	sex chr.race sex:chr.race	1 1 1	1.9209890 14.8741446736 3.21651121	0.1657477 0.0001149275 0.07289885
Week 4 sex:population	gamma log link	sex population sex:population	1 26 26	1.8308243 134.6411 31.5174769	0.1760302 6.699526e-16 0.2945879
Week 8 sex:chr.race	gamma log link	sex chr.race sex:chr.race	1 1 1	30.15011275927874 4.61881143 0.1594230	0.0000003998639 0.03162314 0.6896883
Week 8 sex:population	gamma log link	sex population sex:population	1 28 28	30.27703310106227 110.5428 25.8315415	0.0000003745346 9.281919e-12 0.5823039

Number of stems

Data	Probability distribution and link function	Term	DF	Chisq	P
Overall model (weeks 4 and 8)	poisson log link	sex chr.race timepoint sex:chr.race sex:timepoint chr.race:timepoint sex:chr.race:timepoint	1 1 1 1 1 1 1	25.06500340 34.574535198 1614.186 0.2770829 47.44892 138.8962 0.6449624	0.0000005542978 0.0000000041023 0.000 0.5986196 5.645595e-12 4.640930e-32 0.4219195
Week 4 sex:chr.race	poisson log link	sex chr.race sex:chr.race	1 1 1	70.47907 24.792432923 658 0.2550384	4.651755e-17 0.0000006384763 0.6135495
Week 4 sex:population	poisson log link	sex population sex:population	1 27 27	63.90558 335.3494 29.3300887	1.305272e-15 6.108677e-55 0.3450777
Week 8 sex:chr.race	poisson log link	sex chr.race sex:chr.race	1 1 1	1.169665 34.902336126 0.2554038	0.279470 0.00000000346660.6132955
Week 8 sex:population	poisson log link	sex population sex:population	1 28 28	1.5619531 123.0334 18.1040272	0.2113795 7.032193e-14 0.9234987

Flowering

Data	Probability distribution and link function	Term	DF	Chisq	P
Overall model (weeks 4 and 8)	binomial logit link	sex chr.race timepoint sex:chr.race sex:timepoint chr.race:timepoint sex:chr.race:timepoint	1 1 1 1 1 1 1	218875.1 24046.87 >1e+10 5140.366 >1e+10 >1e+10 >1e+10 >1e+10	1e<-16 1e<-16 1e<-16 1e<-16 1e<-16 1e<-16 1e<-16

Week 4 sex:chr.race	gaussian identity link	sex chr.race sex:chr.race	1 1 1	1.229424e+02 1.3760826 0.7082089	1.435582e-28 0.2407696 0.4000391
Week 4 sex:population	gaussian identity link	sex population sex:population	1 27 27	1.234959e+02 79.372986333675 33.1143852	1.086132e-28 0.000000469827 0.1933213

Proportion of flowering stems

Data	Probability distribution and link function	Term	DF	Chisq	P
Overall model (weeks 4 and 8)	binomial logit link	sex chr.race timepoint sex:chr.race sex:timepoint chr.race:timepoint sex:chr.race:timepoint	1 1 1 1 1 1 1	20.498521424223 0.02115992 8.319732e+01 5.98982707 0.05774818 3.34391227 2.1932536	0.000005967733 0.88434416 7.425829e-20 0.01438861 0.81009109 0.06745405 0.1386162
Week 4 sex:chr.race	gaussian log link	sex chr.race sex:chr.race	1 1 1	7.41244915556 2.1013490 7.455491328	0.00003008491 0.1471692 0.006324321
Week 4 sex in chrNC	gaussian log link	sex	1	0.1566383	0.6922706
Week 4 sex in chrTX	gaussian log link	sex	1	23.333985962420	0.000001361725
Week 4 sex:population	gaussian identity link	sex population sex:population	1 27 27	6.390558e+01 3.353494e+02 29.3300887	1.305272e-15 6.108677e-55 0.3450777
Week 4 sex:population chrNC	gaussian identity link	sex population sex:population	1 4 4	0.01251367 3.4241860 3.6814761	0.91093084 0.4894992 0.4508259
Week 4 sex:population chrTX	gaussian identity link	sex population sex:population	1 11 11	27.7445413269345 7.8970446 13.2382196	0.000000138438 0.7224957 0.2780411
Week 8 sex:chr.race	gaussian identity link	sex chr.race sex:chr.race	1 1 1	9.123334479 0.01248944 0.3001888	0.002523695 0.91101675 0.5837641
Week 8 sex:population	gaussian identity link	sex population sex:population	1 28 28	8.390999467 28.3408332 50.28895921	0.003770835 0.4465005 0.00600363

Number of inflorescences (of already flowering individuals)

Data	Probability distribution and link function	Term	DF	Chisq	P
Overall model (weeks 4 and 8)	poisson log link	sex chr.race timepoint sex:chr.race sex:timepoint chr.race:timepoint	1 1 1 1 1 1	4.423842e+02 12.4220357541 4368.343 1.1690967 2.281527e+02 5.814865e+01	3.277623e-98 0.0004242975 0.000 0.2795869 1.507389e-51 2.430404e-14

		sex:chr.race:timepoint	1	0.5451541	0.4603045
Week 4 sex:chr.race	poisson log link	sex chr.race sex:chr.race	1 1 1	18.07224375778 3.03020004 0.2635288	0.00002126793 0.08172794 0.6077061
Week 4 sex:population	poisson log link	sex population sex:population	1 26 26	19.17633499543 51.350271779 33.282751	0.00001191818 0.002161479 0.154052
Week 8 sex:chr.race	poisson log link	sex chr.race sex:chr.race	1 1 1	1497.218 12.2044047406 3.060074	0.000 0.0004767681 0.080238
Week 8 sex:population	poisson log link	sex population sex:population	1 28 28	1.474375e+03 1.398100e+02 1.600115e+02	1.432790e-322 8.178347e-17 1.888116e-20

Inflorescence size

Data	Probability distribution and link function	Term	DF	Chisq	P
Overall model (weeks 4 and 8)	gaussian log link	sex chr.race timepoint sex:chr.race sex:timepoint chr.race:timepoint sex:chr.race:timepoint	1 1 1 1 1 1 1	147.0124 13.6371083489 4826.634 8.30738953 12.4552880108 33.308022658002180 0.1530384	7.798701e-34 0.0002217587 1e<-16 0.00394841 0.0004168101 0.000000007865747 0.6956485
Week 4 sex:chr.race	gaussian log link	sex chr.race sex:chr.race	1 1 1	17.47593071722 25.2750771779522 3.9829281	0.00002909682 0.0000004970905 0.0459636
Week 4 sex in chrNC	gaussian log link	sex	1	0.2454831	0.6202737
Week 4 sex in chrTX	gaussian log link	sex	1	18.45961013566	0.00001735435
Week 4 sex:population	gamma log link	sex population sex:population	1 26 26	13.702738148 78.4749562801994 45.61025616	0.000214142 0.0000003594530.01008064
Week 4 sex:population chrNC	gamma log link	sex population sex:population	1 1 1	0.2017679 29.244383789 34.0904502028	0.6532976 0.003623662 0.0006527382
Week 4 sex:population chrTX	gamma log link	sex chr.race sex:chr.race	1 1 1	0.2017679 29.244383789 34.0904502028	0.6532976 0.003623662 0.0006527382
Week 8 sex:chr.race	gamma log link			3.246676e+02 13.0536850885 32.00790194916922	1.393839e-72 0.0003026883 0.000000015354
Week 8 sex chrNC	gamma log link	sex	1	4.203878e+01	8.948107e-11
Week 8 sex chrTX	gamma log link	sex	1	2.915468e+02	2.288311e-65

Week 8 sex:population	gamma log link	sex population sex:population	1 28 28	308.2576 216.2465 48.973760740	5.233551e-69 5.550972e-31 0.008399235
Week 8 sex:population chrNC	gamma log link	sex population sex:population	1 13 13	44.57819 43.166615154 6.0426625	2.443994e-11 0.00004214201 0.9445865
Week 8 sex:population chrTX	gamma log link	sex population sex:population	1 14 14	301.6316 121.5143 27.7636863	1.453149e-67 3.177501e-19 0.0152908

Estimated total flower number

Data	Probability distribution and link function	Term	DF	Chisq	P
Overall model (weeks 4 and 8)	gaussian log link	sex chr.race timepoint sex:chr.race sex:timepoint chr.race:timepoint sex:chr.race:timepoint	1 1 1 1 1 1 1	0.00735907 0.0002322504 133.28 0.0005282701 154.36 125.81 1.6882950	0.93163731 0.9878408974 1e<-16 0.9816629335 1e<-16 1e<-16 0.1938259
Week 4 sex:chr.race	gamma log link	sex chr.race sex:chr.race	1 1 1	23.147304667792 11.0180742999 0.1352528	0.000001500534 0.0009022776 0.7130468
Week 4 sex:population	gamma log link	sex population sex:population	1 26 26	84396.1 2985257 2247414	1e<-16 1e<-16 1e<-16
Week 8 sex:chr.race	gaussian log link	sex chr.race sex:chr.race	1 1 1	88.54569 1.2545504 12.2610210007	4.967414e-21 0.2626852 0.0004625184
Week 8 sex chrNC	gaussian log link	sex	1	54.109	1.896e-13
Week 8 sex chrTX	gaussian log link	sex	1	12.081	0.0005094
Week 8 sex:population	gaussian log link	sex population sex:population	1 28 28	86.32863 136.8871 96.565107947120438	1.523864e-20 2.692196e-16 0.000000001812
Week 8 sex:population chrNC	gaussian log link	sex population sex:population	1 13 13	47.57167 54.5243803292198 34.8779429371	5.302924e-12 0.000000489637 0.0008840001
Week 8 sex:population chrTX	gaussian log link	sex population sex:population	1 14 14	12.6518515139 103.6572 25.6856266	0.0003751939 9.407107e-16 0.0283721

Biomass (reprod figure + text; veg figure)

Data	Probability distribution and link function	Term	DF	Chisq	P
Reproductive biomass sex:chr.race	gaussian log link	sex chr.race	1 1	1.6597645 2.96716602	0.1976351 0.08497059

		sex:chr.race	1	4.59407313	0.03208269
Reproductive biomass sex:chr.race chrNC	gaussian log link	sex	1	4.8975	0.0269
Reproductive biomass sex:chr.race chrTX	gaussian log link	sex	1	0.0358	0.8499
Reproductive biomass sex:population	gaussian log link	sex population sex:population	1 28 28	1.3818597 59.1968599805 37.8861887	0.2397846 0.0005152761 0.1005714
Reproductive biomass sex:population chrNC	gaussian log link	sex population sex:population	1 13 13	5.0284297 9.0509717 12.9372494	0.0249345 0.7690831 0.4526703
Reproductive biomass sex:population chrTX	gaussian log link	sex population sex:population	1 14 14	0.1694783 44.424483782 4 25.06949530	0.6805759 0.00005055958 0.03388748
Vegetative biomass sex:chr.race	gamma log link	sex chr.race sex:chr.race	1 1 1	174.3556 1.3031933 0.3122547	8.278210e-40 0.2536308 0.5762999
Vegetative biomass sex:population	gamma log link	sex population sex:population	1 28 28	190.1270 127.3601 37.2637506	2.982722e-43 1.255878e-14 0.1131571
Total biomass sex:chr.race	gamma log link	sex chr.race sex:chr.race	1 1 1	163.5808 0.9036169 0.05196842	1.867832e-37 0.3418137 0.81967281
Total biomass sex: population	gamma log link	sex population sex:population	1 28 28	178.6623 122.2484 37.2204009	9.494910e-41 9.596837e-14 0.1140791

Table S2. Variation in sexual dimorphism across geographical gradients for populations of *Rumex hastatulus*. Results of multiple regression of percent sexual dimorphism (%SD) of different reproductive and vegetative traits at weeks 4 and 8 among populations on altitude, latitude and longitude. Only significant contributions are displayed. Specific models are: No. leaves (week 8) = 160.255 - 4.496 Latitude ($R^2 = 0.35$, $P = 0.0004$); No. stems (week 4) = -12.146 - 0.245 Altitude ($R^2 = 0.22$, $P = 0.007$); No. stems (week 8) = 117.864 - 3.614 Latitude ($R^2 = 0.16$, $P = 0.0374$); No. inflorescences (week 8) = 48.208 + 0.2535 Altitude ($R^2 = 0.14$, $P = 0.027$); Inflorescence size (week 4) = -894.198 + 28.31 Latitude ($R^2 = 0.29$, $P = 0.0023$); Inflorescence size (week 4) = 441.094 -4.806 Longitude ($R^2 = 0.23$, $P = 0.0065$); Inflorescence size (week 8) = 60.5 -0.996 Longitude ($R^2 = 0.4261$, $P = 7.43\text{e-}05$); Total flower number (week 4) = 602.548 - 6.748 Longitude ($R^2 = 0.17$, $P = 0.018$); Total flower number (week 4) = -1121.55 + 35.03 Latitude ($R^2 = 0.16$, $P = 0.022$); Total flower number (week 8) = 580.979 + 0.338 Altitude - 10.03 Latitude - 3.044 Longitude ($R^2 = 0.33$, $P = 0.004$). Color indicates the direction of the correlation (red for positive and blue for negative). * $0.01 < P < 0.05$, ** $0.001 < P < 0.01$, *** $P < 0.001$.

Trait	Altitude	Latitude	Longitude
No. leaves (week 8)		***	
No. stems (week 4)	**		
No. stems (week 8)		*	
No. inflorescences (week 8)	*		
Inflorescence size (week 4)		**	**
Inflorescence size (week 8)			**
Total No. flowers (week 4)		*	*
Total No. flowers (week 8)	**	**	**

Table S3. Sexual dimorphism and sex-specific trait mean variation along climatic gradients for populations of *Rumex hastatulus*. For each trait, grey (first) line shows the correlation coefficients and P-values of the significant results of the multiple regression analyses (Table S2): percent sexual dimorphism (%SD) across populations regressed on mean annual temperature, annual temperature range and total annual precipitation (see Fig. S4 for more information on climatic variables). See the Materials and Methods section for more details and Fig. 5 for full models. Green (second) and orange (third) lines show coefficients and *P*-values of regression of respectively female and male trait means on bioclimatic variables.

	Temperature annual mean		Temperature annual range		Precipitation annual	
	Coeff	P	Coeff	P	Coeff	P
Height (week 4)	-0.6145	0.00428				
	0.1312	0.00611				
	0.21363	0.000329				
No. stems (week 4)	-1.11871	0.049	-1.27514	0.000427	-0.12069	0.002103
	0.03362	0.00118	0.00305	0.640	-0.002054	0.00769
	0.04132	0.0039	0.009822	0.261	-0.002409	0.0234
Inflorescence size (week 4)	-3.476	0.00487				
	0.3259	0.00321				
	0.4963	0.00122				
Overall flowering (week 4)	-8.3239	0.000803	-4.0849	0.003361	-0.3566	0.015412
	1.718	0.0124	-0.282	0.496	-0.08364	0.1023
	2.738	0.0199	-0.2174	0.758	-0.10388	0.2379
No. leaves (week 8)	0.5601	0.001084				
	-0.17956	0.047942				
	-0.31876	0.000166				
No. stems (week 8)	0.5468	0.01124				
	0.033839	0.000694				
	0.01145	0.329				
Inflorescence size (week 8)	-0.45049	0.004442	-0.38975	7.19e-05		
	0.07978	0.00603	-0.01445	0.4145		
	0.12474	0.00262	0.01830	0.476		