**Cross-Species ‘Omnibus’ Regression tree: Predicted at Time of Sowing**

**Variable names are defined in Newman & Furbank, *Scientific Data***

**Leaf values indicate node-average yield, in t/Ha**

**Model Accuracy: Missing Site Prediction R2 = 0.67; p<0.0001**

**n= 97333**

**node), split, n, deviance, yval**

 **\* denotes terminal node**

 1) root 97333 2.139798e+05 3.0011290

 2) METADom\_Dicot\_TF>=0.5 27709 2.238398e+04 2.0564560

 4) METADom\_sub\_cropFaba.Bean< 0.5 25673 1.756516e+04 1.9874700

 8) SatDom\_GPP..20< 0.6096563 9847 7.110657e+03 1.7627480

 16) METADom\_PROCYMIDONE< 131.3155 9731 6.742395e+03 1.7425200

 32) BOMDom\_min\_temperature\_csum\_0< 1518.75 8740 5.753470e+03 1.6816650

 64) SatDom\_Reflect\_b6\_var..70< 0.0001229021 5209 3.198972e+03 1.5321370

 128) METADom\_OMETHOATE\_repeat\_1< 0.2489644 4893 2.653462e+03 1.4795990

 256) SatDom\_FPAR\_min..70< 0.13625 3076 1.447416e+03 1.3202020

 512) ENVDom\_Any\_damage< 0.002503859 2804 1.136177e+03 1.2538940

 1024) METADom\_Fertiliser\_DAP.ZINC.COTE.2.5.< 77.5 2662 9.756675e+02 1.2019420

 2048) SatDom\_Reflect\_b1\_mean..70>=0.1345462 2353 7.567105e+02 1.1271310

 4096) SatDom\_PsnNet\_mean.0< 0.0051375 1355 3.467879e+02 0.9597343

 8192) SatDom\_LST\_night\_var..20< 7.286894 1064 2.159415e+02 0.8582331

 16384) SatDom\_Reflect\_b2\_max.0< 0.20175 493 3.722596e+01 0.6558621 \*

 16385) SatDom\_Reflect\_b2\_max.0>=0.20175 571 1.410929e+02 1.0329600

 32770) SatDom\_NIR\_mean..40>=0.2137156 471 6.743882e+01 0.9378981 \*

 32771) SatDom\_NIR\_mean..40< 0.2137156 100 4.935065e+01 1.4807000 \*

 8193) SatDom\_LST\_night\_var..20>=7.286894 291 7.980409e+01 1.3308590 \*

 4097) SatDom\_PsnNet\_mean.0>=0.0051375 998 3.204014e+02 1.3544090

 8194) SatDom\_PsnNet\_max..10>=0.00549375 791 1.968491e+02 1.2152210

 16388) SatDom\_Emis32\_var..70>=5.736111e-07 488 8.460715e+01 1.0315980

 32776) SatDom\_Pot\_EvapoTrans\_mean..30>=42.3225 278 2.849078e+01 0.8357914 \*

 32777) SatDom\_Pot\_EvapoTrans\_mean..30< 42.3225 210 3.134776e+01 1.2908100 \*

 16389) SatDom\_Emis32\_var..70< 5.736111e-07 303 6.928762e+01 1.5109570

 32778) SatDom\_Emis31\_mean..50< 0.983 104 8.912253e+00 1.1093270 \*

 32779) SatDom\_Emis31\_mean..50>=0.983 199 3.483215e+01 1.7208540 \*

 8195) SatDom\_PsnNet\_max..10< 0.00549375 207 4.967044e+01 1.8862800 \*

 2049) SatDom\_Reflect\_b1\_mean..70< 0.1345462 309 1.055080e+02 1.7716180

 4098) METADom\_Fert\_rotation\_minus\_1\_SULPHATE>=0.05922024 131 3.344923e+01 1.3944270 \*

 4099) METADom\_Fert\_rotation\_minus\_1\_SULPHATE< 0.05922024 178 3.970449e+01 2.0492130 \*

 1025) METADom\_Fertiliser\_DAP.ZINC.COTE.2.5.>=77.5 142 1.863462e+01 2.2278170 \*

 513) ENVDom\_Any\_damage>=0.002503859 272 1.718218e+02 2.0037500 \*

 257) SatDom\_FPAR\_min..70>=0.13625 1817 9.955847e+02 1.7494440

 514) METADom\_Chem\_rotation\_minus\_2\_DUAL\_GOLD>=0.002889951 1476 7.038033e+02 1.6045930

 1028) SatDom\_Latent\_heat\_min.0>=1036596 495 1.403152e+02 1.2451920

 2056) SatDom\_Pot\_EvapoTrans\_min..50< 42.625 247 4.212298e+01 1.0106880 \*

 2057) SatDom\_Pot\_EvapoTrans\_min..50>=42.625 248 7.108091e+01 1.4787500 \*

 1029) SatDom\_Latent\_heat\_min.0< 1036596 981 4.672865e+02 1.7859430

 2058) SatDom\_MIR\_var.0< 3.263921e-05 545 1.777288e+02 1.5092110

 4116) BOMDom\_solar\_exposure\_min\_0>=4.85 425 9.866918e+01 1.3401880

 8232) SatDom\_LAI\_var..20>=0.001333333 114 9.582057e+00 0.9627193 \*

 8233) SatDom\_LAI\_var..20< 0.001333333 311 6.689005e+01 1.4785530 \*

 4117) BOMDom\_solar\_exposure\_min\_0< 4.85 120 2.391604e+01 2.1078330 \*

 2059) SatDom\_MIR\_var.0>=3.263921e-05 436 1.956508e+02 2.1318580

 4118) SatDom\_Reflect\_b5\_mean.0< 0.3058156 274 6.197626e+01 1.8104010 \*

 4119) SatDom\_Reflect\_b5\_mean.0>=0.3058156 162 5.747260e+01 2.6755560 \*

 515) METADom\_Chem\_rotation\_minus\_2\_DUAL\_GOLD< 0.002889951 341 1.267648e+02 2.3764220

 1030) SatDom\_Reflect\_b7\_var..50< 2.309099e-05 100 1.921085e+01 1.8693000 \*

 1031) SatDom\_Reflect\_b7\_var..50>=2.309099e-05 241 7.116560e+01 2.5868460 \*

 129) METADom\_OMETHOATE\_repeat\_1>=0.2489644 316 3.228830e+02 2.3456330

 258) SatDom\_Emis32\_var..60>=1.027778e-06 104 1.695069e+01 1.2227880 \*

 259) SatDom\_Emis32\_var..60< 1.027778e-06 212 1.104876e+02 2.8964620 \*

 65) SatDom\_Reflect\_b6\_var..70>=0.0001229021 3531 2.266219e+03 1.9022510

 130) SatDom\_Reflect\_b6\_min..60>=0.4081625 720 3.258849e+02 1.4524580

 260) METADom\_Chem\_rotation\_minus\_1\_BRODAL< 0.001131369 379 9.972405e+01 1.0957780

 520) METADom\_Organic\_C\_10cm.test\_10cm< 1.415206 216 1.692079e+01 0.8001852 \*

 521) METADom\_Organic\_C\_10cm.test\_10cm>=1.415206 163 3.892047e+01 1.4874850 \*

 261) METADom\_Chem\_rotation\_minus\_1\_BRODAL>=0.001131369 341 1.243546e+02 1.8488860

 522) SatDom\_GPP..60>=0.24485 188 2.678640e+01 1.5301060 \*

 523) SatDom\_GPP..60< 0.24485 153 5.498865e+01 2.2405880 \*

 131) SatDom\_Reflect\_b6\_min..60< 0.4081625 2811 1.757358e+03 2.0174600

 262) SatDom\_NIR\_var..10< 4.126655e-06 687 3.970925e+02 1.6113680

 524) SatDom\_Reflect\_b5\_min.0>=0.2049625 532 2.140570e+02 1.3967860

 1048) BOMDom\_min\_temperature\_min\_.70< 11.65 411 1.080193e+02 1.2289540

 2096) SatDom\_PsnNet..70< 0.5603438 164 1.793349e+01 0.8751829 \*

 2097) SatDom\_PsnNet..70>=0.5603438 247 5.593245e+01 1.4638460 \*

 1049) BOMDom\_min\_temperature\_min\_.70>=11.65 121 5.513781e+01 1.9668600 \*

 525) SatDom\_Reflect\_b5\_min.0< 0.2049625 155 7.446160e+01 2.3478710 \*

 263) SatDom\_NIR\_var..10>=4.126655e-06 2124 1.210327e+03 2.1488090

 526) SatDom\_Emis32\_mean..70< 0.9870417 1743 9.014588e+02 2.0383820

 1052) SatDom\_Pot\_EvapoTrans\_var..10< 6.04963e+07 1383 6.335769e+02 1.9051480

 2104) SatDom\_NIR\_var..80>=5.337198e-07 1235 4.862838e+02 1.8120320

 4208) BOMDom\_solar\_exposure\_var\_.10< 4.954722 486 1.344499e+02 1.4765840

 8416) BOMDom\_min\_temperature\_min\_.70< 11.85 326 4.631271e+01 1.2787730 \*

 8417) BOMDom\_min\_temperature\_min\_.70>=11.85 160 4.939038e+01 1.8796250 \*

 4209) BOMDom\_solar\_exposure\_var\_.10>=4.954722 749 2.616618e+02 2.0296930

 8418) SatDom\_PsnNet\_var..20< 1.606771e-07 206 8.122734e+01 1.6335920 \*

 8419) SatDom\_PsnNet\_var..20>=1.606771e-07 543 1.358524e+02 2.1799630

 16838) SatDom\_EvapoTrans\_mean..50>=3.2575 245 5.480112e+01 1.9250610 \*

 16839) SatDom\_EvapoTrans\_mean..50< 3.2575 298 5.204473e+01 2.3895300 \*

 2105) SatDom\_NIR\_var..80< 5.337198e-07 148 4.722991e+01 2.6821620 \*

 1053) SatDom\_Pot\_EvapoTrans\_var..10>=6.04963e+07 360 1.490190e+02 2.5502220

 2106) SatDom\_Emis31\_mean..40< 0.98335 232 5.613688e+01 2.2757330 \*

 2107) SatDom\_Emis31\_mean..40>=0.98335 128 4.371984e+01 3.0477340 \*

 527) SatDom\_Emis32\_mean..70>=0.9870417 381 1.903803e+02 2.6539900

 1054) SatDom\_Reflect\_b4\_var..60< 2.00728e-05 277 8.533373e+01 2.4587000 \*

 1055) SatDom\_Reflect\_b4\_var..60>=2.00728e-05 104 6.634512e+01 3.1741350 \*

 33) BOMDom\_min\_temperature\_csum\_0>=1518.75 991 6.711001e+02 2.2792230

 66) SatDom\_GPP\_min..60< 0.00485 388 1.901659e+02 1.7939950

 132) SatDom\_Reflect\_b1\_max..10< 0.1863188 286 1.052877e+02 1.5524830 \*

 133) SatDom\_Reflect\_b1\_max..10>=0.1863188 102 2.142166e+01 2.4711760 \*

 67) SatDom\_GPP\_min..60>=0.00485 603 3.307998e+02 2.5914430

 134) METADom\_Chem\_rotation\_minus\_2\_FASTAC>=0.000776699 358 1.491185e+02 2.2768440

 268) SatDom\_EVI\_max..40< 0.108525 119 2.598569e+01 1.7397480 \*

 269) SatDom\_EVI\_max..40>=0.108525 239 7.171245e+01 2.5442680 \*

 135) METADom\_Chem\_rotation\_minus\_2\_FASTAC< 0.000776699 245 9.447468e+01 3.0511430 \*

 17) METADom\_PROCYMIDONE>=131.3155 116 3.025899e+01 3.4596550 \*

 9) SatDom\_GPP..20>=0.6096563 15826 9.647824e+03 2.1272930

 18) METADom\_Chem\_rotation\_minus\_1\_TERBYNE< 0.00340273 14864 8.861072e+03 2.0844270

 36) METADom\_Chem\_rotation\_minus\_1\_FORCE< 0.001257611 12934 7.242096e+03 2.0301030

 72) METADom\_Chem\_rotation\_minus\_2\_BONUS>=-1.218643e-17 12474 6.626925e+03 2.0002460

 144) SatDom\_EvapoTrans\_min..70< 4.58125 5727 3.004448e+03 1.8553310

 288) BOMDom\_solar\_exposure\_mean\_.40< 16.84 2558 1.099319e+03 1.6269000

 576) BOMDom\_max\_temperature\_max\_0>=22.95 1389 3.856871e+02 1.3834770

 1152) SatDom\_EVI\_min..60>=0.1281844 907 2.116970e+02 1.2231640

 2304) SatDom\_Reflect\_b3\_var..60< 5.13892e-06 392 4.585976e+01 0.9533673

 4608) SatDom\_Latent\_heat\_max..20< 2096250 286 1.391296e+01 0.8010839 \*

 4609) SatDom\_Latent\_heat\_max..20>=2096250 106 7.419390e+00 1.3642450 \*

 2305) SatDom\_Reflect\_b3\_var..60>=5.13892e-06 515 1.155845e+02 1.4285240

 4610) SatDom\_LAI\_var..60< 0.00140625 283 4.147229e+01 1.1786570 \*

 4611) SatDom\_LAI\_var..60>=0.00140625 232 3.489074e+01 1.7333190 \*

 1153) SatDom\_EVI\_min..60< 0.1281844 482 1.068162e+02 1.6851450

 2306) SatDom\_LST\_night\_min..60< 32.525 365 5.539122e+01 1.5344660 \*

 2307) SatDom\_LST\_night\_min..60>=32.525 117 1.728512e+01 2.1552140 \*

 577) BOMDom\_max\_temperature\_max\_0< 22.95 1169 5.335329e+02 1.9161330

 1154) BOMDom\_min\_temperature\_min\_.20< 4.65 690 2.689583e+02 1.6972170

 2308) SatDom\_Reflect\_b6\_min.0>=0.2875937 254 3.568920e+01 1.3000790 \*

 2309) SatDom\_Reflect\_b6\_min.0< 0.2875937 436 1.698703e+02 1.9285780

 4618) BOMDom\_min\_temperature\_var\_.10< 12.81694 327 5.702664e+01 1.7608870 \*

 4619) BOMDom\_min\_temperature\_var\_.10>=12.81694 109 7.606230e+01 2.4316510 \*

 1155) BOMDom\_min\_temperature\_min\_.20>=4.65 479 1.838728e+02 2.2314820

 2310) METADom\_Fertiliser\_time\_MAP>=-15.75484 338 6.819616e+01 1.9826330 \*

 2311) METADom\_Fertiliser\_time\_MAP< -15.75484 141 4.457084e+01 2.8280140 \*

 289) BOMDom\_solar\_exposure\_mean\_.40>=16.84 3169 1.663908e+03 2.0397190

 578) METADom\_Fertiliser\_PIVOT.15\_repeat\_1>=-3.433018e-16 2938 1.405448e+03 1.9799900

 1156) SatDom\_Reflect\_b7\_mean..10>=0.1853894 2477 1.105659e+03 1.8897050

 2312) BOMDom\_solar\_exposure\_min\_.40>=6.75 2093 9.108137e+02 1.7998180

 4624) BOMDom\_min\_temperature\_min\_.20< 6.4 801 2.542636e+02 1.5122600

 9248) BOMDom\_min\_temperature\_var\_.60< 5.167833 317 4.440979e+01 1.1286120 \*

 9249) BOMDom\_min\_temperature\_var\_.60>=5.167833 484 1.326371e+02 1.7635330

 18498) BOMDom\_max\_temperature\_max\_.20>=26.8 337 4.435272e+01 1.5581310 \*

 18499) BOMDom\_max\_temperature\_max\_.20< 26.8 147 4.147103e+01 2.2344220 \*

 4625) BOMDom\_min\_temperature\_min\_.20>=6.4 1292 5.492519e+02 1.9780960

 9250) METADom\_Nitrogen\_fert< 16.475 180 5.712758e+01 1.3758330 \*

 9251) METADom\_Nitrogen\_fert>=16.475 1112 4.162662e+02 2.0755850

 18502) BOMDom\_rainfall\_csum\_0< 125.95 895 2.634281e+02 1.9358660

 37004) SatDom\_NIR\_var..70>=1.328692e-05 397 9.041754e+01 1.6567250

 74008) SatDom\_Reflect\_b4\_min..10>=0.09125 131 1.357090e+01 1.2929010 \*

 74009) SatDom\_Reflect\_b4\_min..10< 0.09125 266 5.096663e+01 1.8359020 \*

 37005) SatDom\_NIR\_var..70< 1.328692e-05 498 1.174163e+02 2.1583940

 74010) SatDom\_LST\_night\_var..70>=4.066871 374 5.399489e+01 2.0198660

 148020) SatDom\_Latent\_heat\_var..30< 7.181043e+10 263 1.915329e+01 1.8529660 \*

 148021) SatDom\_Latent\_heat\_var..30>=7.181043e+10 111 1.015736e+01 2.4153150 \*

 74011) SatDom\_LST\_night\_var..70< 4.066871 124 3.459772e+01 2.5762100 \*

 18503) BOMDom\_rainfall\_csum\_0>=125.95 217 6.330646e+01 2.6518430 \*

 2313) BOMDom\_solar\_exposure\_min\_.40< 6.75 384 8.576235e+01 2.3796350

 4626) SatDom\_Latent\_heat\_min..50< 481875 136 2.417975e+01 1.9925000 \*

 4627) SatDom\_Latent\_heat\_min..50>=481875 248 3.002207e+01 2.5919350 \*

 1157) SatDom\_Reflect\_b7\_mean..10< 0.1853894 461 1.711115e+02 2.4650980

 2314) BOMDom\_max\_temperature\_mean\_0>=21.26 144 1.987704e+01 1.9427080 \*

 2315) BOMDom\_max\_temperature\_mean\_0< 21.26 317 9.408758e+01 2.7023970

 4630) SatDom\_FPAR\_min..70< 0.12 107 2.121175e+01 2.2620560 \*

 4631) SatDom\_FPAR\_min..70>=0.12 210 4.155720e+01 2.9267620 \*

 579) METADom\_Fertiliser\_PIVOT.15\_repeat\_1< -3.433018e-16 231 1.146667e+02 2.7993940 \*

 145) SatDom\_EvapoTrans\_min..70>=4.58125 6747 3.400120e+03 2.1232530

 290) BOMDom\_min\_temperature\_min\_.50< 1.6 171 8.013667e+01 1.1225730 \*

 291) BOMDom\_min\_temperature\_min\_.50>=1.6 6576 3.144298e+03 2.1492750

 582) METADom\_total\_N\_10cm.test\_10cm< 20.15 1535 5.690283e+02 1.8755500

 1164) SatDom\_Reflect\_b7\_min..20>=0.1507438 1219 3.902416e+02 1.7545530

 2328) BOMDom\_Longitude< 148.1397 910 2.320023e+02 1.6085710

 4656) BOMDom\_min\_temperature\_max\_.80< 22.25 668 1.279839e+02 1.4692370

 9312) SatDom\_Reflect\_b2\_min..60>=0.1886 563 8.306678e+01 1.3828950

 18624) METADom\_Chem\_rotation\_minus\_1\_SPRAY>=0.0001954397 176 1.972587e+01 1.0886360 \*

 18625) METADom\_Chem\_rotation\_minus\_1\_SPRAY< 0.0001954397 387 4.117073e+01 1.5167180 \*

 9313) SatDom\_Reflect\_b2\_min..60< 0.1886 105 1.821580e+01 1.9321900 \*

 4657) BOMDom\_min\_temperature\_max\_.80>=22.25 242 5.525185e+01 1.9931820 \*

 2329) BOMDom\_Longitude>=148.1397 309 8.173564e+01 2.1844660

 4658) SatDom\_LST\_night\_var..20>=2.388813 201 3.271999e+01 1.9607460 \*

 4659) SatDom\_LST\_night\_var..20< 2.388813 108 2.023243e+01 2.6008330 \*

 1165) SatDom\_Reflect\_b7\_min..20< 0.1507438 316 9.209481e+01 2.3423100

 2330) BOMDom\_solar\_exposure\_var\_.50< 14.67361 141 2.412772e+01 1.9548230 \*

 2331) BOMDom\_solar\_exposure\_var\_.50>=14.67361 175 2.973893e+01 2.6545140 \*

 583) METADom\_total\_N\_10cm.test\_10cm>=20.15 5041 2.425239e+03 2.2326240

 1166) SatDom\_Pot\_EvapoTrans\_max..70>=46.925 4064 1.949929e+03 2.1546830

 2332) SatDom\_Reflect\_b2..60< 9.35905 3862 1.774644e+03 2.1143400

 4664) BOMDom\_max\_temperature\_max\_.80< 37.85 2990 1.347412e+03 2.0267560

 9328) SatDom\_LST\_night\_var..60>=1.820207 2455 1.031708e+03 1.9431080

 18656) SatDom\_NIR\_max..50>=0.1802219 2256 8.458801e+02 1.8812770

 37312) BOMDom\_rainfall\_mean\_.20< 0.03 297 8.331856e+01 1.4112120 \*

 37313) BOMDom\_rainfall\_mean\_.20>=0.03 1959 6.869869e+02 1.9525420

 74626) SatDom\_Reflect\_b3\_min..10< 0.03185 248 5.241938e+01 1.4427820 \*

 74627) SatDom\_Reflect\_b3\_min..10>=0.03185 1711 5.607827e+02 2.0264290

 149254) SatDom\_Reflect\_b2\_min..10< 0.2072562 1024 2.786914e+02 1.8765820

 298508) BOMDom\_max\_temperature\_max\_.40>=27.95 690 1.335624e+02 1.7215070

 597016) BOMDom\_solar\_exposure\_mean\_0< 9.285 180 1.926017e+01 1.3958330 \*

 597017) BOMDom\_solar\_exposure\_mean\_0>=9.285 510 8.847268e+01 1.8364510 \*

 298509) BOMDom\_max\_temperature\_max\_.40< 27.95 334 9.425629e+01 2.1969460

 597018) SatDom\_FPAR\_min..10>=0.2430728 169 2.350956e+01 1.9069820 \*

 597019) SatDom\_FPAR\_min..10< 0.2430728 165 4.198354e+01 2.4939390 \*

 149255) SatDom\_Reflect\_b2\_min..10>=0.2072562 687 2.248263e+02 2.2497820

 298510) SatDom\_Reflect\_b2\_var..20< 7.068567e-05 443 1.179951e+02 2.0688490

 597020) SatDom\_MIR\_var..10< 1.549202e-05 226 5.743828e+01 1.8419030 \*

 597021) SatDom\_MIR\_var..10>=1.549202e-05 217 3.679402e+01 2.3052070 \*

 298511) SatDom\_Reflect\_b2\_var..20>=7.068567e-05 244 6.599868e+01 2.5782790 \*

 18657) SatDom\_NIR\_max..50< 0.1802219 199 7.942480e+01 2.6440700 \*

 9329) SatDom\_LST\_night\_var..60< 1.820207 535 2.197024e+02 2.4105980

 18658) SatDom\_LST\_night\_min..70>=30.89 391 1.142928e+02 2.2037850

 37316) SatDom\_Reflect\_b4..60>=2.993737 248 3.688340e+01 2.0151210 \*

 37317) SatDom\_Reflect\_b4..60< 2.993737 143 5.327306e+01 2.5309790 \*

 18659) SatDom\_LST\_night\_min..70< 30.89 144 4.327643e+01 2.9721530 \*

 4665) BOMDom\_max\_temperature\_max\_.80>=37.85 872 3.256505e+02 2.4146560

 9330) SatDom\_PsnNet\_max..10< 0.0192 722 2.004202e+02 2.3064130

 18660) SatDom\_LST\_day\_var..80>=10.41232 360 1.022264e+02 2.0746390

 37320) SatDom\_Reflect\_b1.0< 13.4246 259 6.250640e+01 1.9072200 \*

 37321) SatDom\_Reflect\_b1.0>=13.4246 101 1.384442e+01 2.5039600 \*

 18661) SatDom\_LST\_day\_var..80< 10.41232 362 5.962293e+01 2.5369060 \*

 9331) SatDom\_PsnNet\_max..10>=0.0192 150 7.605308e+01 2.9356670 \*

 2333) SatDom\_Reflect\_b2..60>=9.35905 202 4.882605e+01 2.9259900 \*

 1167) SatDom\_Pot\_EvapoTrans\_max..70< 46.925 977 3.479255e+02 2.5568370

 2334) SatDom\_LST\_night\_max..20< 33.04 739 2.249306e+02 2.4055620

 4668) SatDom\_blue\_band\_var..70>=2.206624e-06 311 8.216565e+01 2.1443730

 9336) SatDom\_Emis32\_var..80< 7.234568e-07 182 3.692671e+01 1.9071430 \*

 9337) SatDom\_Emis32\_var..80>=7.234568e-07 129 2.054549e+01 2.4790700 \*

 4669) SatDom\_blue\_band\_var..70< 2.206624e-06 428 1.061322e+02 2.5953500 \*

 2335) SatDom\_LST\_night\_max..20>=33.04 238 5.357237e+01 3.0265550 \*

 73) METADom\_Chem\_rotation\_minus\_2\_BONUS< -1.218643e-17 460 3.025170e+02 2.8397390

 146) SatDom\_Reflect\_b7\_var..40>=1.463795e-05 345 1.003336e+02 2.5172750

 292) SatDom\_LAI\_var..40< 0.006684028 104 3.659813e+01 2.0971150 \*

 293) SatDom\_LAI\_var..40>=0.006684028 241 3.745312e+01 2.6985890 \*

 147) SatDom\_Reflect\_b7\_var..40< 1.463795e-05 115 5.868695e+01 3.8071300 \*

 37) METADom\_Chem\_rotation\_minus\_1\_FORCE>=0.001257611 1930 1.325005e+03 2.4484870

 74) SatDom\_Reflect\_b3.0< 4.606575 241 4.765872e+01 1.4994190 \*

 75) SatDom\_Reflect\_b3.0>=4.606575 1689 1.029296e+03 2.5839080

 150) METADom\_Chem\_rotation\_minus\_2\_ROUNDUP>=0.06626442 1518 7.280901e+02 2.4688600

 300) SatDom\_EVI\_var..70< 3.775988e-06 510 2.444064e+02 2.0694710

 600) SatDom\_Reflect\_b1\_min..50>=0.1468813 126 1.212385e+01 1.1969840 \*

 601) SatDom\_Reflect\_b1\_min..50< 0.1468813 384 1.048950e+02 2.3557550

 1202) SatDom\_LST\_night\_var..30< 4.412724 136 4.148019e+01 1.9852940 \*

 1203) SatDom\_LST\_night\_var..30>=4.412724 248 3.451441e+01 2.5589110 \*

 301) SatDom\_EVI\_var..70>=3.775988e-06 1008 3.611727e+02 2.6709330

 602) BOMDom\_min\_temperature\_min\_.10< 2.55 142 4.412810e+01 2.0363380 \*

 603) BOMDom\_min\_temperature\_min\_.10>=2.55 866 2.504830e+02 2.7749880

 1206) BOMDom\_solar\_exposure\_min\_.10>=8.25 151 1.823991e+01 2.2311260 \*

 1207) BOMDom\_solar\_exposure\_min\_.10< 8.25 715 1.781469e+02 2.8898460

 2414) SatDom\_LAI\_mean.0>=0.35625 305 4.322271e+01 2.6175080 \*

 2415) SatDom\_LAI\_mean.0< 0.35625 410 9.547496e+01 3.0924390

 4830) SatDom\_Latent\_heat\_var..40< 1.580372e+10 281 3.143917e+01 2.9328830 \*

 4831) SatDom\_Latent\_heat\_var..40>=1.580372e+10 129 4.129900e+01 3.4400000 \*

 151) METADom\_Chem\_rotation\_minus\_2\_ROUNDUP< 0.06626442 171 1.027527e+02 3.6052050 \*

 19) METADom\_Chem\_rotation\_minus\_1\_TERBYNE>=0.00340273 962 3.374380e+02 2.7896150

 38) BOMDom\_solar\_exposure\_var\_0< 6.430944 475 1.196869e+02 2.4558320

 76) SatDom\_Reflect\_b2\_var..50>=2.618084e-05 359 5.131429e+01 2.2774090 \*

 77) SatDom\_Reflect\_b2\_var..50< 2.618084e-05 116 2.157464e+01 3.0080170 \*

 39) BOMDom\_solar\_exposure\_var\_0>=6.430944 487 1.132140e+02 3.1151750

 78) BOMDom\_solar\_exposure\_var\_.20>=5.489333 374 5.994392e+01 2.9529140 \*

 79) BOMDom\_solar\_exposure\_var\_.20< 5.489333 113 1.083295e+01 3.6522120 \*

 5) METADom\_sub\_cropFaba.Bean>=0.5 2036 3.156017e+03 2.9263360

 10) METADom\_CHLOROTHALONIL\_repeat\_3< 3.912885 1864 2.663262e+03 2.8062340

 20) SatDom\_GPP\_max..20< 0.007025 486 7.113529e+02 2.2223250

 40) SatDom\_Reflect\_b7\_max..70>=0.2915 193 1.068199e+02 1.5269430 \*

 41) SatDom\_Reflect\_b7\_max..70< 0.2915 293 4.497323e+02 2.6803750 \*

 21) SatDom\_GPP\_max..20>=0.007025 1378 1.727767e+03 3.0121700

 42) METADom\_SPINETORAM\_repeat\_1>=-4.071396e-16 1237 1.427219e+03 2.9080520

 84) METADom\_Organic\_C\_10cm.test\_10cm< 1.523714 1053 1.092792e+03 2.7855560

 168) SatDom\_Reflect\_b6\_mean.0>=0.3193106 201 1.280242e+02 2.1284580 \*

 169) SatDom\_Reflect\_b6\_mean.0< 0.3193106 852 8.575060e+02 2.9405750

 338) SatDom\_Reflect\_b3\_max..60< 0.092875 746 6.384346e+02 2.8047720

 676) SatDom\_EvapoTrans\_max..80< 4.3 103 6.238712e+01 1.9957280 \*

 677) SatDom\_EvapoTrans\_max..80>=4.3 643 4.978290e+02 2.9343700

 1354) SatDom\_Reflect\_b7\_var..60>=1.761313e-05 501 3.480054e+02 2.7579440

 2708) SatDom\_Pot\_EvapoTrans\_mean..50>=53.57313 330 1.725076e+02 2.4670910

 5416) SatDom\_NDVI\_min..20>=0.2335953 229 7.764098e+01 2.2541920 \*

 5417) SatDom\_NDVI\_min..20< 0.2335953 101 6.095300e+01 2.9498020 \*

 2709) SatDom\_Pot\_EvapoTrans\_mean..50< 53.57313 171 9.370720e+01 3.3192400 \*

 1355) SatDom\_Reflect\_b7\_var..60< 1.761313e-05 142 7.921047e+01 3.5568310 \*

 339) SatDom\_Reflect\_b3\_max..60>=0.092875 106 1.084877e+02 3.8963210 \*

 85) METADom\_Organic\_C\_10cm.test\_10cm>=1.523714 184 2.282019e+02 3.6090760 \*

 43) METADom\_SPINETORAM\_repeat\_1< -4.071396e-16 141 1.694941e+02 3.9256030 \*

 11) METADom\_CHLOROTHALONIL\_repeat\_3>=3.912885 172 1.744848e+02 4.2279070 \*

 3) METADom\_Dicot\_TF< 0.5 69624 1.570270e+05 3.3770900

 6) SatDom\_Reflect\_b7.0>=24.17471 30344 5.774680e+04 2.8173200

 12) METADom\_Year< 2015.5 25893 3.792992e+04 2.6310030

 24) SatDom\_GPP..40< 0.4096125 13597 1.522992e+04 2.2474970

 48) BOMDom\_solar\_exposure\_mean\_.60< 20.315 8046 7.127546e+03 1.9083160

 96) BOMDom\_rainfall\_csum\_.10< 43.3 3132 1.749617e+03 1.4877230

 192) BOMDom\_min\_temperature\_max\_0>=9.65 2671 1.116392e+03 1.3508650

 384) SatDom\_NDVI\_var..10< 0.0001123014 2242 7.431482e+02 1.2220380

 768) METADom\_Chem\_rotation\_minus\_2\_ATRAZINE< 0.1922788 2015 5.129262e+02 1.1249130

 1536) SatDom\_LST\_day..50>=2340.6 613 4.862163e+01 0.7517455

 3072) SatDom\_LST\_day\_var..50< 16.34615 372 1.255180e+01 0.5867204 \*

 3073) SatDom\_LST\_day\_var..50>=16.34615 241 1.030150e+01 1.0064730 \*

 1537) SatDom\_LST\_day..50< 2340.6 1402 3.416184e+02 1.2880740

 3074) SatDom\_Emis32\_var..70>=4.277778e-07 1131 1.868594e+02 1.1486560

 6148) SatDom\_Pot\_EvapoTrans..30< 2818.075 317 3.172011e+01 0.7947950 \*

 6149) SatDom\_Pot\_EvapoTrans..30>=2818.075 814 9.998701e+01 1.2864620

 12298) SatDom\_FPAR\_var..70< 6.423611e-05 508 4.210297e+01 1.1324410 \*

 12299) SatDom\_FPAR\_var..70>=6.423611e-05 306 2.582678e+01 1.5421570 \*

 3075) SatDom\_Emis32\_var..70< 4.277778e-07 271 4.102780e+01 1.8699260 \*

 769) METADom\_Chem\_rotation\_minus\_2\_ATRAZINE>=0.1922788 227 4.248552e+01 2.0841850 \*

 385) SatDom\_NDVI\_var..10>=0.0001123014 429 1.415780e+02 2.0241260

 770) SatDom\_NIR\_var..80< 6.529154e-07 132 1.120913e+01 1.3966670 \*

 771) SatDom\_NIR\_var..80>=6.529154e-07 297 5.530243e+01 2.3029970 \*

 193) BOMDom\_min\_temperature\_max\_0< 9.65 461 2.933341e+02 2.2806720

 386) SatDom\_PsnNet\_var..20< 5.722656e-08 213 5.583169e+01 1.6409860 \*

 387) SatDom\_PsnNet\_var..20>=5.722656e-08 248 7.548440e+01 2.8300810 \*

 97) BOMDom\_rainfall\_csum\_.10>=43.3 4914 4.470758e+03 2.1763860

 194) BOMDom\_rainfall\_var\_.70>=0.01383333 3086 2.178925e+03 1.8717660

 388) SatDom\_blue\_band\_var..20>=3.444661e-07 2586 1.316779e+03 1.7011330

 776) METADom\_Chem\_rotation\_minus\_2\_MCPA< 0.1377111 2318 9.300912e+02 1.5888400

 1552) SatDom\_GPP\_max..30< 0.00694375 1155 3.377782e+02 1.3136450

 3104) SatDom\_NDVI\_var..50>=1.314553e-07 1043 2.074772e+02 1.2095970

 6208) SatDom\_NDVI\_var..40< 1.306723e-05 641 7.655085e+01 1.0275510

 12416) METADom\_Chem\_rotation\_minus\_1\_BOXERGOLD>=-3.176712e-17 419 4.202529e+01 0.8884487 \*

 12417) METADom\_Chem\_rotation\_minus\_1\_BOXERGOLD< -3.176712e-17 222 1.111640e+01 1.2900900 \*

 6209) SatDom\_NDVI\_var..40>=1.306723e-05 402 7.580989e+01 1.4998760 \*

 3105) SatDom\_NDVI\_var..50< 1.314553e-07 112 1.385795e+01 2.2825890 \*

 1553) SatDom\_GPP\_max..30>=0.00694375 1163 4.179738e+02 1.8621410

 3106) SatDom\_LST\_day\_max..70>=59.93 906 1.724519e+02 1.6668540

 6212) SatDom\_Pot\_latent\_heat\_mean..60< 1.332344e+07 188 2.843397e+01 1.1769680 \*

 6213) SatDom\_Pot\_latent\_heat\_mean..60>=1.332344e+07 718 8.708654e+01 1.7951250

 12426) SatDom\_EVI\_var..40< 5.597575e-06 543 3.569265e+01 1.6703130 \*

 12427) SatDom\_EVI\_var..40>=5.597575e-06 175 1.668819e+01 2.1824000 \*

 3107) SatDom\_LST\_day\_max..70< 59.93 257 8.916381e+01 2.5505840 \*

 777) METADom\_Chem\_rotation\_minus\_2\_MCPA>=0.1377111 268 1.046443e+02 2.6723880 \*

 389) SatDom\_blue\_band\_var..20< 3.444661e-07 500 3.974374e+02 2.7542800

 778) METADom\_Fert\_rotation\_minus\_2\_UREA< 0.4275046 222 7.761915e+01 2.0082880 \*

 779) METADom\_Fert\_rotation\_minus\_2\_UREA>=0.4275046 278 9.761720e+01 3.3500000 \*

 195) BOMDom\_rainfall\_var\_.70< 0.01383333 1828 1.522045e+03 2.6906400

 390) SatDom\_Pot\_EvapoTrans\_max..60< 51.00625 639 3.161248e+02 2.0780590

 780) SatDom\_GPP\_var..10< 4.744661e-07 411 1.136247e+02 1.7098780

 1560) BOMDom\_min\_temperature\_min\_.50>=5.9 248 3.248379e+01 1.4598390 \*

 1561) BOMDom\_min\_temperature\_min\_.50< 5.9 163 4.204568e+01 2.0903070 \*

 781) SatDom\_GPP\_var..10>=4.744661e-07 228 4.635410e+01 2.7417540 \*

 391) SatDom\_Pot\_EvapoTrans\_max..60>=51.00625 1189 8.372635e+02 3.0198570

 782) SatDom\_Emis32\_mean..20< 0.9865 628 2.192259e+02 2.5190610

 1564) SatDom\_Reflect\_b4\_min..10< 0.08865 298 5.528640e+01 2.1105700 \*

 1565) SatDom\_Reflect\_b4\_min..10>=0.08865 330 6.931040e+01 2.8879390 \*

 783) SatDom\_Emis32\_mean..20>=0.9865 561 2.842261e+02 3.5804630

 1566) SatDom\_Reflect\_b7\_min..50< 0.317775 362 5.592281e+01 3.1525140 \*

 1567) SatDom\_Reflect\_b7\_min..50>=0.317775 199 4.140568e+01 4.3589450 \*

 49) BOMDom\_solar\_exposure\_mean\_.60>=20.315 5551 5.835043e+03 2.7391280

 98) SatDom\_GPP\_min..80< 0.0065375 3915 3.270136e+03 2.4579820

 196) METADom\_Fert\_rotation\_minus\_1\_TWENTY\_FOUR\_TO\_SIXTEEN>=0.0001547988 952 5.373003e+02 1.8678360

 392) SatDom\_GPP..20< 0.43535 198 4.357373e+01 0.9053535 \*

 393) SatDom\_GPP..20>=0.43535 754 2.621383e+02 2.1205840

 786) BOMDom\_min\_temperature\_csum\_.80< 207.975 575 1.033302e+02 1.8980520

 1572) SatDom\_EvapoTrans\_min.0< 5 350 2.371625e+01 1.6903710 \*

 1573) SatDom\_EvapoTrans\_min.0>=5 225 4.103542e+01 2.2211110 \*

 787) BOMDom\_min\_temperature\_csum\_.80>=207.975 179 3.886684e+01 2.8354190 \*

 197) METADom\_Fert\_rotation\_minus\_1\_TWENTY\_FOUR\_TO\_SIXTEEN< 0.0001547988 2963 2.294753e+03 2.6475940

 394) SatDom\_Emis32\_var..10< 6.462963e-07 713 2.257891e+02 1.8980220

 788) BOMDom\_solar\_exposure\_max\_.30>=18.45 582 9.125362e+01 1.7038830

 1576) SatDom\_LST\_day\_var..60< 9.179545 114 1.261334e+01 1.2671050 \*

 1577) SatDom\_LST\_day\_var..60>=9.179545 468 5.159426e+01 1.8102780 \*

 789) BOMDom\_solar\_exposure\_max\_.30< 18.45 131 1.514546e+01 2.7605340 \*

 395) SatDom\_Emis32\_var..10>=6.462963e-07 2250 1.541413e+03 2.8851240

 790) SatDom\_Reflect\_b6\_max.0>=0.3514875 1769 9.952865e+02 2.6907010

 1580) SatDom\_PsnNet\_max..30< 0.00655 1302 5.168018e+02 2.4796010

 3160) SatDom\_MIR\_min..80>=0.3438062 699 2.346951e+02 2.1497570

 6320) SatDom\_Reflect\_b5\_var..40< 7.854488e-05 443 9.770893e+01 1.9055760

 12640) SatDom\_MIR\_var..30>=3.401872e-05 185 4.008506e+01 1.5795140 \*

 12641) SatDom\_MIR\_var..30< 3.401872e-05 258 2.385190e+01 2.1393800 \*

 6321) SatDom\_Reflect\_b5\_var..40>=7.854488e-05 256 6.486454e+01 2.5723050 \*

 3161) SatDom\_MIR\_min..80< 0.3438062 603 1.179013e+02 2.8619570

 6322) SatDom\_Emis31\_var..20>=5.444444e-07 491 6.892988e+01 2.7406720 \*

 6323) SatDom\_Emis31\_var..20< 5.444444e-07 112 1.008540e+01 3.3936610 \*

 1581) SatDom\_PsnNet\_max..30>=0.00655 467 2.586988e+02 3.2792510

 3162) SatDom\_Reflect\_b6\_mean..50< 0.406425 218 5.029002e+01 2.7409170 \*

 3163) SatDom\_Reflect\_b6\_mean..50>=0.406425 249 8.992032e+01 3.7505620 \*

 791) SatDom\_Reflect\_b6\_max.0< 0.3514875 481 2.333296e+02 3.6001660

 1582) SatDom\_LST\_day\_mean..60< 60.9572 340 6.795570e+01 3.3886760 \*

 1583) SatDom\_LST\_day\_mean..60>=60.9572 141 1.134958e+02 4.1101420 \*

 99) SatDom\_GPP\_min..80>=0.0065375 1636 1.514921e+03 3.4119190

 198) SatDom\_Latent\_heat\_max..40>=845000 1265 7.105334e+02 3.1145380

 396) SatDom\_Latent\_heat\_var..30< 6.196719e+09 340 6.198470e+01 2.3920290 \*

 397) SatDom\_Latent\_heat\_var..30>=6.196719e+09 925 4.058244e+02 3.3801080

 794) SatDom\_Pot\_latent\_heat\_max..70>=1.7785e+07 700 2.121292e+02 3.1708000

 1588) SatDom\_FPAR..30>=9.41 179 1.652997e+01 2.6474860 \*

 1589) SatDom\_FPAR..30< 9.41 521 1.297367e+02 3.3505950

 3178) METADom\_Chem\_rotation\_minus\_2\_SPRAYSEED< 0.03249206 393 6.868886e+01 3.2288300 \*

 3179) METADom\_Chem\_rotation\_minus\_2\_SPRAYSEED>=0.03249206 128 3.733036e+01 3.7244530 \*

 795) SatDom\_Pot\_latent\_heat\_max..70< 1.7785e+07 225 6.762013e+01 4.0312890 \*

 199) SatDom\_Latent\_heat\_max..40< 845000 371 3.110682e+02 4.4259030

 398) METADom\_Chem\_rotation\_minus\_1\_BOXERGOLD< -3.272122e-17 146 6.923450e+01 3.6739730 \*

 399) METADom\_Chem\_rotation\_minus\_1\_BOXERGOLD>=-3.272122e-17 225 1.057207e+02 4.9138220 \*

 25) SatDom\_GPP..40>=0.4096125 12296 1.848880e+04 3.0550870

 50) BOMDom\_rainfall\_csum\_.10< 47.4 2472 2.503741e+03 2.1931960

 100) SatDom\_Reflect\_b1\_mean.0>=0.1322638 1270 6.380561e+02 1.6617240

 200) SatDom\_MixClouds..10>=3.5 646 1.396467e+02 1.2283900

 400) BOMDom\_min\_temperature\_var\_.40< 4.845389 180 1.520407e+01 0.7226111 \*

 401) BOMDom\_min\_temperature\_var\_.40>=4.845389 466 6.061033e+01 1.4237550

 802) BOMDom\_min\_temperature\_var\_.30>=7.556056 318 2.577899e+01 1.2701890 \*

 803) BOMDom\_min\_temperature\_var\_.30< 7.556056 148 1.121866e+01 1.7537160 \*

 201) SatDom\_MixClouds..10< 3.5 624 2.515226e+02 2.1103370

 402) SatDom\_GPP..50< 0.3703812 202 4.610604e+01 1.5505450 \*

 403) SatDom\_GPP..50>=0.3703812 422 1.118164e+02 2.3782940

 806) METADom\_Fert\_rotation\_minus\_2\_EIGHTEEN\_TO\_TWENTY< 0.0009434856 210 3.488245e+01 2.0450950 \*

 807) METADom\_Fert\_rotation\_minus\_2\_EIGHTEEN\_TO\_TWENTY>=0.0009434856 212 3.052492e+01 2.7083490 \*

 101) SatDom\_Reflect\_b1\_mean.0< 0.1322638 1202 1.127937e+03 2.7547340

 202) BOMDom\_solar\_exposure\_max\_.50< 20.05 529 2.120157e+02 2.1426650

 404) METADom\_Chem\_rotation\_minus\_2\_ROUNDUP\_READY>=-1.31839e-17 407 7.251881e+01 1.8986980

 808) SatDom\_Reflect\_b3\_var..40>=7.432414e-06 113 1.318064e+01 1.5015040 \*

 809) SatDom\_Reflect\_b3\_var..40< 7.432414e-06 294 3.465906e+01 2.0513610 \*

 405) METADom\_Chem\_rotation\_minus\_2\_ROUNDUP\_READY< -1.31839e-17 122 3.445695e+01 2.9565570 \*

 203) BOMDom\_solar\_exposure\_max\_.50>=20.05 673 5.619692e+02 3.2358400

 406) SatDom\_Reflect\_b7\_var..50< 3.774441e-05 135 9.428497e+01 2.2247410 \*

 407) SatDom\_Reflect\_b7\_var..50>=3.774441e-05 538 2.950393e+02 3.4895540

 814) SatDom\_Aero\_q\_csum..20>=14 430 1.265696e+02 3.2834880 \*

 815) SatDom\_Aero\_q\_csum..20< 14 108 7.751240e+01 4.3100000 \*

 51) BOMDom\_rainfall\_csum\_.10>=47.4 9824 1.368664e+04 3.2719640

 102) METADom\_Fertiliser\_time\_MAP< -3.073846 6581 8.283557e+03 3.0267470

 204) SatDom\_Reflect\_b5\_mean..20>=0.2969987 5339 5.996877e+03 2.8371700

 408) SatDom\_FPAR\_var..20< 0.001451667 4605 4.573398e+03 2.6882080

 816) SatDom\_Reflect\_b6\_var..70>=2.53066e-05 3752 3.200752e+03 2.5322520

 1632) BOMDom\_min\_temperature\_mean\_.30< 13.24 2575 1.825639e+03 2.2889860

 3264) BOMDom\_min\_temperature\_var\_.10>=2.8565 2285 1.186221e+03 2.1332520

 6528) SatDom\_Emis32..40< 50.32014 1522 4.794346e+02 1.9050130

 13056) SatDom\_FullClouds..80< 3.5 1375 3.359054e+02 1.8134760

 26112) SatDom\_Reflect\_b7\_max..50>=0.3610875 146 1.336145e+01 1.2149320 \*

 26113) SatDom\_Reflect\_b7\_max..50< 0.3610875 1229 2.640249e+02 1.8845810

 52226) SatDom\_EVI\_min.0< 0.1511562 650 1.049825e+02 1.7134620

 104452) BOMDom\_max\_temperature\_min\_.20< 18.6 412 5.394620e+01 1.5745150 \*

 104453) BOMDom\_max\_temperature\_min\_.20>=18.6 238 2.931271e+01 1.9539920 \*

 52227) SatDom\_EVI\_min.0>=0.1511562 579 1.186420e+02 2.0766840

 104454) SatDom\_LST\_day\_var..10< 9.53642 436 6.378071e+01 1.9606650 \*

 104455) SatDom\_LST\_day\_var..10>=9.53642 143 3.109917e+01 2.4304200 \*

 13057) SatDom\_FullClouds..80>=3.5 147 2.424278e+01 2.7612240 \*

 6529) SatDom\_Emis32..40>=50.32014 763 4.693466e+02 2.5885320

 13058) SatDom\_GPP\_max..80< 0.0125 490 1.400860e+02 2.2248980

 26116) SatDom\_Latent\_heat..30>=7.735354e+07 141 2.154813e+01 1.6123400 \*

 26117) SatDom\_Latent\_heat..30< 7.735354e+07 349 4.425593e+01 2.4723780 \*

 13059) SatDom\_GPP\_max..80>=0.0125 273 1.481735e+02 3.2412090 \*

 3265) BOMDom\_min\_temperature\_var\_.10< 2.8565 290 1.473367e+02 3.5160690 \*

 1633) BOMDom\_min\_temperature\_mean\_.30>=13.24 1177 8.893489e+02 3.0644600

 3266) SatDom\_Latent\_heat\_min..30< 933643.4 564 3.249874e+02 2.5831740

 6532) SatDom\_PsnNet\_var..20>=1.492901e-06 113 9.053711e+01 1.6118580 \*

 6533) SatDom\_PsnNet\_var..20< 1.492901e-06 451 1.011284e+02 2.8265410

 13066) SatDom\_Emis31\_var.0< 1.027778e-06 334 5.532820e+01 2.6900600 \*

 13067) SatDom\_Emis31\_var.0>=1.027778e-06 117 2.181837e+01 3.2161540 \*

 3267) SatDom\_Latent\_heat\_min..30>=933643.4 613 3.135180e+02 3.5072760

 6534) SatDom\_EVI\_var..70< 3.236979e-06 416 1.744433e+02 3.2130050

 13068) SatDom\_EVI\_var..50< 1.871707e-06 107 2.056506e+01 2.6346730 \*

 13069) SatDom\_EVI\_var..50>=1.871707e-06 309 1.056976e+02 3.4132690 \*

 6535) SatDom\_EVI\_var..70>=3.236979e-06 197 2.698066e+01 4.1286800 \*

 817) SatDom\_Reflect\_b6\_var..70< 2.53066e-05 853 8.799830e+02 3.3741970

 1634) METADom\_Fert\_rotation\_minus\_1\_P< -2.278993e-17 278 8.985526e+01 2.4263310 \*

 1635) METADom\_Fert\_rotation\_minus\_1\_P>=-2.278993e-17 575 4.196007e+02 3.8324700

 3270) SatDom\_MIR\_max..60< 0.3378031 425 1.650785e+02 3.4974350

 6540) SatDom\_blue\_band\_var..20>=4.031864e-06 146 3.101098e+01 2.9043150 \*

 6541) SatDom\_blue\_band\_var..20< 4.031864e-06 279 5.582857e+01 3.8078140 \*

 3271) SatDom\_MIR\_max..60>=0.3378031 150 7.165155e+01 4.7817330 \*

 409) SatDom\_FPAR\_var..20>=0.001451667 734 6.802191e+02 3.7717300

 818) SatDom\_FPAR\_min..70< 0.14625 244 7.122911e+01 2.8534430 \*

 819) SatDom\_FPAR\_min..70>=0.14625 490 3.007796e+02 4.2290000

 1638) SatDom\_MIR..60< 9.164228 141 4.108976e+01 3.5721280 \*

 1639) SatDom\_MIR..60>=9.164228 349 1.742714e+02 4.4943840

 3278) METADom\_Chem\_rotation\_minus\_1\_SPINREPORTED\_NAKER>=-1.755323e-17 194 2.627100e+01 4.2700000 \*

 3279) METADom\_Chem\_rotation\_minus\_1\_SPINREPORTED\_NAKER< -1.755323e-17 155 1.260077e+02 4.7752260 \*

 205) SatDom\_Reflect\_b5\_mean..20< 0.2969987 1242 1.269962e+03 3.8416830

 410) METADom\_Chem\_rotation\_minus\_2\_TOPIK>=-6.938894e-19 537 2.369657e+02 3.1345070

 820) SatDom\_NDVI\_var..70>=3.573756e-06 279 7.831925e+01 2.7656630 \*

 821) SatDom\_NDVI\_var..70< 3.573756e-06 258 7.964357e+01 3.5333720 \*

 411) METADom\_Chem\_rotation\_minus\_2\_TOPIK< -6.938894e-19 705 5.598863e+02 4.3803400

 822) SatDom\_LST\_day\_var..50>=4.863918 298 1.534954e+02 3.9266440 \*

 823) SatDom\_LST\_day\_var..50< 4.863918 407 3.001379e+02 4.7125310 \*

 103) METADom\_Fertiliser\_time\_MAP>=-3.073846 3243 4.204318e+03 3.7695810

 206) SatDom\_Reflect\_b1\_max..10>=0.1644 319 2.998063e+02 2.5171160

 412) METADom\_Chem\_rotation\_minus\_1\_TARGA< 0.01113129 205 8.728568e+01 2.0460980 \*

 413) METADom\_Chem\_rotation\_minus\_1\_TARGA>=0.01113129 114 8.525376e+01 3.3641230 \*

 207) SatDom\_Reflect\_b1\_max..10< 0.1644 2924 3.349514e+03 3.9062210

 414) METADom\_Chem\_rotation\_minus\_1\_STARANE< 0.0004098361 2701 2.835669e+03 3.7982670

 828) BOMDom\_solar\_exposure\_min\_.80>=17.8 778 5.131890e+02 3.1987660

 1656) SatDom\_Emis32\_mean..30>=0.98635 286 6.922542e+01 2.4463640 \*

 1657) SatDom\_Emis32\_mean..30< 0.98635 492 1.879395e+02 3.6361380

 3314) SatDom\_Reflect\_b6\_var..60>=3.316174e-05 331 6.846487e+01 3.3749240 \*

 3315) SatDom\_Reflect\_b6\_var..60< 3.316174e-05 161 5.045708e+01 4.1731680 \*

 829) BOMDom\_solar\_exposure\_min\_.80< 17.8 1923 1.929740e+03 4.0408110

 1658) SatDom\_red\_band\_max..40< 0.168225 1509 1.327111e+03 3.8249830

 3316) SatDom\_Reflect\_b7\_min..70< 0.2733313 255 5.428182e+01 2.9035290 \*

 3317) SatDom\_Reflect\_b7\_min..70>=0.2733313 1254 1.012286e+03 4.0123600

 6634) SatDom\_LAI..30>=15.825 1088 8.063762e+02 3.8750000

 13268) SatDom\_Latent\_heat.0< 1.762355e+08 952 6.234498e+02 3.7854940

 26536) SatDom\_blue\_band\_mean.0>=0.05709844 126 5.827655e+01 3.2262700 \*

 26537) SatDom\_blue\_band\_mean.0< 0.05709844 826 5.197583e+02 3.8707990 \*

 13269) SatDom\_Latent\_heat.0>=1.762355e+08 136 1.219118e+02 4.5015440 \*

 6635) SatDom\_LAI..30< 15.825 166 5.083523e+01 4.9126510 \*

 1659) SatDom\_red\_band\_max..40>=0.168225 414 2.761292e+02 4.8274880

 3318) METADom\_Fert\_rotation\_minus\_2\_SOA< 0.007665497 278 1.348937e+02 4.5085250 \*

 3319) METADom\_Fert\_rotation\_minus\_2\_SOA>=0.007665497 136 5.513886e+01 5.4794850 \*

 415) METADom\_Chem\_rotation\_minus\_1\_STARANE>=0.0004098361 223 1.011094e+02 5.2137670 \*

 13) METADom\_Year>=2015.5 4451 1.368908e+04 3.9011930

 26) METADom\_Phos\_fert< 17.25 3159 5.839820e+03 3.2284170

 52) METADom\_Fert\_rotation\_minus\_1\_EXTRA>=-5.850355e-17 2108 2.876338e+03 2.6792550

 104) SatDom\_EvapoTrans\_mean..20< 7.40875 1360 1.455896e+03 2.2259850

 208) SatDom\_Aero\_q.0< 7 1191 8.699671e+02 2.0042650

 416) BOMDom\_min\_temperature\_max\_.50>=14.15 1034 4.705249e+02 1.7872340

 832) METADom\_Chem\_rotation\_minus\_1\_HAMMER< 0.005171871 676 2.420715e+02 1.4996750

 1664) SatDom\_LST\_night\_var..70>=1.258607 554 9.559899e+01 1.3201440

 3328) METADom\_Fertiliser\_time\_MAP< -6.883083 396 3.515474e+01 1.1291920 \*

 3329) METADom\_Fertiliser\_time\_MAP>=-6.883083 158 9.815347e+00 1.7987340 \*

 1665) SatDom\_LST\_night\_var..70< 1.258607 122 4.753265e+01 2.3149180 \*

 833) METADom\_Chem\_rotation\_minus\_1\_HAMMER>=0.005171871 358 6.700278e+01 2.3302230 \*

 417) BOMDom\_min\_temperature\_max\_.50< 14.15 157 2.997383e+01 3.4336310 \*

 209) SatDom\_Aero\_q.0>=7 169 1.147635e+02 3.7885210 \*

 105) SatDom\_EvapoTrans\_mean..20>=7.40875 748 6.329939e+02 3.5033820

 210) SatDom\_Latent\_heat\_min..70< 496250 395 1.676261e+02 2.9564300

 420) SatDom\_Reflect\_b6\_var..30< 6.345502e-05 115 4.170456e+01 2.2578260 \*

 421) SatDom\_Reflect\_b6\_var..30>=6.345502e-05 280 4.674444e+01 3.2433570 \*

 211) SatDom\_Latent\_heat\_min..70>=496250 353 2.149748e+02 4.1154110

 422) SatDom\_Pot\_latent\_heat\_max..40< 1.22425e+07 117 3.763111e+01 3.4053850 \*

 423) SatDom\_Pot\_latent\_heat\_max..40>=1.22425e+07 236 8.911752e+01 4.4674150 \*

 53) METADom\_Fert\_rotation\_minus\_1\_EXTRA< -5.850355e-17 1051 1.052668e+03 4.3298760

 106) METADom\_Chem\_rotation\_minus\_1\_DUAL\_GOLD>=0.004336695 242 1.233669e+02 3.1424790 \*

 107) METADom\_Chem\_rotation\_minus\_1\_DUAL\_GOLD< 0.004336695 809 4.860382e+02 4.6850680

 214) BOMDom\_max\_temperature\_mean\_.30< 27.355 317 1.088147e+02 4.1395580

 428) SatDom\_Reflect\_b1\_var..70< 1.758052e-05 130 3.158500e+01 3.6772310 \*

 429) SatDom\_Reflect\_b1\_var..70>=1.758052e-05 187 3.012543e+01 4.4609630 \*

 215) BOMDom\_max\_temperature\_mean\_.30>=27.355 492 2.221107e+02 5.0365450

 430) SatDom\_GPP\_var..30< 5.947708e-07 345 1.231656e+02 4.8031010 \*

 431) SatDom\_GPP\_var..30>=5.947708e-07 147 3.601923e+01 5.5844220 \*

 27) METADom\_Phos\_fert>=17.25 1292 2.923359e+03 5.5461610

 54) METADom\_Year>=2016.5 284 2.053995e+02 3.7417250 \*

 55) METADom\_Year< 2016.5 1008 1.532728e+03 6.0545540

 110) SatDom\_LST\_day\_var..40>=6.363743 615 5.096998e+02 5.4639020

 220) METADom\_Chem\_rotation\_minus\_2\_ROUNDUP\_POWERMAX< 0.006221173 138 3.227515e+01 4.4227540 \*

 221) METADom\_Chem\_rotation\_minus\_2\_ROUNDUP\_POWERMAX>=0.006221173 477 2.845561e+02 5.7651150

 442) BOMDom\_min\_temperature\_max\_.10>=15.75 221 6.305105e+01 5.3708140 \*

 443) BOMDom\_min\_temperature\_max\_.10< 15.75 256 1.574835e+02 6.1055080 \*

 111) SatDom\_LST\_day\_var..40< 6.363743 393 4.727212e+02 6.9788550

 222) METADom\_Fert\_rotation\_minus\_2\_PLAIN>=2.63678e-17 257 1.831224e+02 6.5207390 \*

 223) METADom\_Fert\_rotation\_minus\_2\_PLAIN< 2.63678e-17 136 1.337380e+02 7.8445590 \*

 7) SatDom\_Reflect\_b7.0< 24.17471 39280 8.242715e+04 3.8095150

 14) METADom\_Phos\_fert< 17.16 19521 3.061495e+04 3.3814240

 28) SatDom\_EvapoTrans\_min..60>=1.1125 18996 2.613362e+04 3.3188470

 56) SatDom\_GPP..80< 0.14755 11060 1.374385e+04 3.0680240

 112) METADom\_ESP\_60cm.test\_60cm>=10.61598 1725 2.180203e+03 2.3831590

 224) SatDom\_PsnNet\_max..20>=0.0102 283 1.813204e+01 0.9195406 \*

 225) SatDom\_PsnNet\_max..20< 0.0102 1442 1.436857e+03 2.6704020

 450) SatDom\_red\_band..80>=1.307647 1209 8.287268e+02 2.4475770

 900) METADom\_Fert\_rotation\_minus\_2\_PLAIN>=0.0006756757 484 1.991418e+02 1.8880370

 1800) METADom\_Chem\_rotation\_minus\_1\_BOXERGOLD< -2.808084e-17 223 2.793041e+01 1.4437220 \*

 1801) METADom\_Chem\_rotation\_minus\_1\_BOXERGOLD>=-2.808084e-17 261 8.957347e+01 2.2676630 \*

 901) METADom\_Fert\_rotation\_minus\_2\_PLAIN< 0.0006756757 725 3.768910e+02 2.8211170

 1802) SatDom\_LST\_day..60>=1687.064 602 2.311380e+02 2.6373260

 3604) SatDom\_NDVI\_var..60< 5.664914e-06 181 6.300483e+01 2.0414360 \*

 3605) SatDom\_NDVI\_var..60>=5.664914e-06 421 7.623140e+01 2.8935150 \*

 1803) SatDom\_LST\_day..60< 1687.064 123 2.589115e+01 3.7206500 \*

 451) SatDom\_red\_band..80< 1.307647 233 2.366242e+02 3.8266090 \*

 113) METADom\_ESP\_60cm.test\_60cm< 10.61598 9335 1.060505e+04 3.1945780

 226) METADom\_Chem\_rotation\_minus\_1\_POWER< -2.725684e-17 3718 3.730480e+03 2.8053010

 452) SatDom\_Reflect\_b5\_min..10>=0.2338875 2234 1.671930e+03 2.4611680

 904) METADom\_Chem\_rotation\_minus\_2\_LVE< 0.03836598 1576 7.579776e+02 2.1534960

 1808) SatDom\_Latent\_heat\_max..40>=601209.7 1452 4.591348e+02 2.0310470

 3616) SatDom\_MIR..50< 10.86607 694 1.478874e+02 1.7307490

 7232) SatDom\_Reflect\_b5\_var..60>=3.940002e-05 496 7.518312e+01 1.5627620

 14464) BOMDom\_Latitude>=-32.95154 295 2.686261e+01 1.3809830 \*

 14465) BOMDom\_Latitude< -32.95154 201 2.426606e+01 1.8295520 \*

 7233) SatDom\_Reflect\_b5\_var..60< 3.940002e-05 198 2.364421e+01 2.1515660 \*

 3617) SatDom\_MIR..50>=10.86607 758 1.913636e+02 2.3059890

 7234) SatDom\_Reflect\_b5\_mean..30< 0.2643575 156 2.023807e+01 1.7791030 \*

 7235) SatDom\_Reflect\_b5\_mean..30>=0.2643575 602 1.165960e+02 2.4425250

 14470) SatDom\_LST\_day\_var..20>=2.774109 474 6.516580e+01 2.3333760 \*

 14471) SatDom\_LST\_day\_var..20< 2.774109 128 2.487142e+01 2.8467190 \*

 1809) SatDom\_Latent\_heat\_max..40< 601209.7 124 2.213962e+01 3.5873390 \*

 905) METADom\_Chem\_rotation\_minus\_2\_LVE>=0.03836598 658 4.074400e+02 3.1980850

 1810) SatDom\_EVI\_var..70< 7.854485e-06 371 1.480197e+02 2.7403500

 3620) METADom\_Chem\_rotation\_minus\_2\_LVE< 0.07967318 220 3.814553e+01 2.3825000 \*

 3621) METADom\_Chem\_rotation\_minus\_2\_LVE>=0.07967318 151 4.065555e+01 3.2617220 \*

 1811) SatDom\_EVI\_var..70>=7.854485e-06 287 8.120479e+01 3.7897910 \*

 453) SatDom\_Reflect\_b5\_min..10< 0.2338875 1484 1.395707e+03 3.3233560

 906) SatDom\_PsnNet\_var..30>=1.731988e-07 798 5.659926e+02 2.8153630

 1812) METADom\_Chem\_rotation\_minus\_1\_ALLY>=0.04435775 529 2.428400e+02 2.4456900

 3624) SatDom\_Reflect\_b3\_var..70< 4.935772e-06 170 2.020772e+01 1.8120000 \*

 3625) SatDom\_Reflect\_b3\_var..70>=4.935772e-06 359 1.220402e+02 2.7457660

 7250) METADom\_Fert\_rotation\_minus\_1\_TEN\_TO\_TWENTY\_TWO< 0.002063944 218 4.199974e+01 2.4982570 \*

 7251) METADom\_Fert\_rotation\_minus\_1\_TEN\_TO\_TWENTY\_TWO>=0.002063944 141 4.603766e+01 3.1284400 \*

 1813) METADom\_Chem\_rotation\_minus\_1\_ALLY< 0.04435775 269 1.086944e+02 3.5423420 \*

 907) SatDom\_PsnNet\_var..30< 1.731988e-07 686 3.842356e+02 3.9142860

 1814) SatDom\_Latent\_heat\_max..70< 951250 177 6.443223e+01 3.0839550 \*

 1815) SatDom\_Latent\_heat\_max..70>=951250 509 1.553351e+02 4.2030260

 3630) BOMDom\_min\_temperature\_var\_.10< 18.41139 354 6.332987e+01 3.9811020 \*

 3631) BOMDom\_min\_temperature\_var\_.10>=18.41139 155 3.475240e+01 4.7098710 \*

 227) METADom\_Chem\_rotation\_minus\_1\_POWER>=-2.725684e-17 5617 5.938217e+03 3.4522490

 454) METADom\_HALOXYFOP\_R>=7.837484 762 6.468545e+02 2.6466930

 908) BOMDom\_solar\_exposure\_min\_.10>=5.9 494 2.958281e+02 2.2592910

 1816) METADom\_MCPA\_AMINE>=18.09825 176 1.772702e+01 1.5635230 \*

 1817) METADom\_MCPA\_AMINE< 18.09825 318 1.457454e+02 2.6443710

 3634) METADom\_X2\_4\_DB< -2.479128e-14 171 2.733425e+01 2.2571930 \*

 3635) METADom\_X2\_4\_DB>=-2.479128e-14 147 6.295787e+01 3.0947620 \*

 909) BOMDom\_solar\_exposure\_min\_.10< 5.9 268 1.402269e+02 3.3607840 \*

 455) METADom\_HALOXYFOP\_R< 7.837484 4855 4.719277e+03 3.5786820

 910) SatDom\_FPAR..60>=6.32 1230 9.289900e+02 3.0446180

 1820) SatDom\_NIR\_var..80< 3.99681e-05 992 4.057731e+02 2.7900710

 3640) METADom\_Nitrogen\_fert< 20.48267 476 1.462881e+02 2.4740970

 7280) SatDom\_Pot\_latent\_heat..20< 8.939127e+08 181 3.167547e+01 2.0703870 \*

 7281) SatDom\_Pot\_latent\_heat..20>=8.939127e+08 295 6.701315e+01 2.7217970 \*

 3641) METADom\_Nitrogen\_fert>=20.48267 516 1.681218e+02 3.0815500

 7282) BOMDom\_solar\_exposure\_var\_.10>=12.71189 134 2.135208e+01 2.6057460 \*

 7283) BOMDom\_solar\_exposure\_var\_.10< 12.71189 382 1.057920e+02 3.2484550

 14566) SatDom\_Pot\_EvapoTrans\_max.0>=37.4125 279 4.453188e+01 3.0979930 \*

 14567) SatDom\_Pot\_EvapoTrans\_max.0< 37.4125 103 3.783467e+01 3.6560190 \*

 1821) SatDom\_NIR\_var..80>=3.99681e-05 238 1.910343e+02 4.1055880 \*

 911) SatDom\_FPAR..60< 6.32 3625 3.320422e+03 3.7598950

 1822) SatDom\_Reflect\_b7\_var..50< 1.783232e-05 701 5.444166e+02 3.0471040

 3644) BOMDom\_rainfall\_var\_.10< 14.69472 495 2.638354e+02 2.7234550

 7288) SatDom\_Latent\_heat\_max..80< 910000 102 5.461285e+01 1.8259800 \*

 7289) SatDom\_Latent\_heat\_max..80>=910000 393 1.057425e+02 2.9563870

 14578) METADom\_Chem\_rotation\_minus\_2\_ROUNDUP\_MAX< 0.0003618699 267 4.433897e+01 2.7356180 \*

 14579) METADom\_Chem\_rotation\_minus\_2\_ROUNDUP\_MAX>=0.0003618699 126 2.081447e+01 3.4242060 \*

 3645) BOMDom\_rainfall\_var\_.10>=14.69472 206 1.041375e+02 3.8248060 \*

 1823) SatDom\_Reflect\_b7\_var..50>=1.783232e-05 2924 2.334463e+03 3.9307800

 3646) BOMDom\_min\_temperature\_mean\_.20>=7.91 2203 1.578231e+03 3.7181530

 7292) SatDom\_FPAR\_var..70>=5.583333e-05 1838 1.034021e+03 3.5808870

 14584) BOMDom\_min\_temperature\_var\_.40< 5.109111 523 2.786390e+02 3.1427530

 29168) METADom\_Fert\_rotation\_minus\_2\_N>=0.007494354 140 6.772751e+01 2.4914290 \*

 29169) METADom\_Fert\_rotation\_minus\_2\_N< 0.007494354 383 1.298105e+02 3.3808360

 58338) SatDom\_red\_band\_min.0< 0.0792375 209 3.730986e+01 3.0958850 \*

 58339) SatDom\_red\_band\_min.0>=0.0792375 174 5.514692e+01 3.7231030 \*

 14585) BOMDom\_min\_temperature\_var\_.40>=5.109111 1315 6.150570e+02 3.7551410

 29170) SatDom\_Reflect\_b4..60>=3.539431 222 1.092722e+02 3.1682430 \*

 29171) SatDom\_Reflect\_b4..60< 3.539431 1093 4.137859e+02 3.8743460

 58342) SatDom\_Pot\_latent\_heat..80< 2.154525e+08 960 2.634591e+02 3.7699900

 116684) SatDom\_Pot\_latent\_heat\_var..20>=1.128443e+12 514 1.173864e+02 3.5912450 \*

 116685) SatDom\_Pot\_latent\_heat\_var..20< 1.128443e+12 446 1.107247e+02 3.9759870 \*

 58343) SatDom\_Pot\_latent\_heat..80>=2.154525e+08 133 6.441023e+01 4.6275940 \*

 7293) SatDom\_FPAR\_var..70< 5.583333e-05 365 3.351886e+02 4.4093700

 14586) SatDom\_EvapoTrans\_min.0>=18433.53 101 2.418696e+01 3.4094060 \*

 14587) SatDom\_EvapoTrans\_min.0< 18433.53 264 1.713715e+02 4.7919320 \*

 3647) BOMDom\_min\_temperature\_mean\_.20< 7.91 721 3.523125e+02 4.5804580

 7294) SatDom\_EvapoTrans\_mean..60>=3.928125 568 2.249147e+02 4.4237500

 14588) SatDom\_GPP\_mean..10>=0.004304375 412 1.018511e+02 4.2768200 \*

 14589) SatDom\_GPP\_mean..10< 0.004304375 156 9.067890e+01 4.8117950 \*

 7295) SatDom\_EvapoTrans\_mean..60< 3.928125 153 6.166644e+01 5.1622220 \*

 57) SatDom\_GPP..80>=0.14755 7936 1.072425e+04 3.6684060

 114) SatDom\_Reflect\_b5\_min..40>=0.2708813 3166 4.046318e+03 3.2283800

 228) BOMDom\_rainfall\_mean\_.50< 1.75 2450 2.710150e+03 3.0088780

 456) BOMDom\_rainfall\_csum\_.80>=9.4 1064 7.344791e+02 2.5029890

 912) SatDom\_Reflect\_b7\_var..80< 0.0001872413 660 3.171319e+02 2.1662580

 1824) METADom\_Fert\_rotation\_minus\_2\_EIGHTEEN\_TO\_TWENTY< 0.000676819 357 8.612206e+01 1.7708120

 3648) SatDom\_EvapoTrans\_min..60>=14.5375 132 2.180955e+01 1.3460610 \*

 3649) SatDom\_EvapoTrans\_min..60< 14.5375 225 2.652660e+01 2.0200000 \*

 1825) METADom\_Fert\_rotation\_minus\_2\_EIGHTEEN\_TO\_TWENTY>=0.000676819 303 1.094074e+02 2.6321780

 3650) SatDom\_Reflect\_b5\_max..80< 0.34065 156 2.219342e+01 2.2792950 \*

 3651) SatDom\_Reflect\_b5\_max..80>=0.34065 147 4.717227e+01 3.0066670 \*

 913) SatDom\_Reflect\_b7\_var..80>=0.0001872413 404 2.202544e+02 3.0530940

 1826) SatDom\_red\_band.0>=11.63981 103 1.510577e+01 2.1949510 \*

 1827) SatDom\_red\_band.0< 11.63981 301 1.033432e+02 3.3467440

 3654) METADom\_Chem\_rotation\_minus\_2\_ROUNDUP>=0.1000209 189 2.270448e+01 3.1073540 \*

 3655) METADom\_Chem\_rotation\_minus\_2\_ROUNDUP< 0.1000209 112 5.153014e+01 3.7507140 \*

 457) BOMDom\_rainfall\_csum\_.80< 9.4 1386 1.494328e+03 3.3972370

 914) SatDom\_Reflect\_b6\_mean..40< 0.3392569 786 5.466635e+02 2.9664890

 1828) SatDom\_MIR\_mean..40>=0.1837422 568 2.298376e+02 2.6915320

 3656) SatDom\_Reflect\_b6\_var..80>=0.0002614661 291 7.313825e+01 2.3411000 \*

 3657) SatDom\_Reflect\_b6\_var..80< 0.0002614661 277 8.342207e+01 3.0596750 \*

 1829) SatDom\_MIR\_mean..40< 0.1837422 218 1.620001e+02 3.6828900 \*

 915) SatDom\_Reflect\_b6\_mean..40>=0.3392569 600 6.107797e+02 3.9615170

 1830) SatDom\_Reflect\_b6\_mean..50>=0.3628369 221 1.370983e+02 3.1683260 \*

 1831) SatDom\_Reflect\_b6\_mean..50< 0.3628369 379 2.535613e+02 4.4240370

 3662) METADom\_Chem\_rotation\_minus\_2\_SELECT< 0.08917317 226 1.288639e+02 4.1065490 \*

 3663) METADom\_Chem\_rotation\_minus\_2\_SELECT>=0.08917317 153 6.826722e+01 4.8930070 \*

 229) BOMDom\_rainfall\_mean\_.50>=1.75 716 8.142028e+02 3.9794690

 458) SatDom\_Reflect\_b7\_mean..70>=0.2572187 304 1.911628e+02 3.1324670

 916) SatDom\_MIR\_var..10>=0.0001109178 128 4.795500e+01 2.5575000 \*

 917) SatDom\_MIR\_var..10< 0.0001109178 176 7.011803e+01 3.5506250 \*

 459) SatDom\_Reflect\_b7\_mean..70< 0.2572187 412 2.440232e+02 4.6044420

 918) SatDom\_Reflect\_b1\_mean..80< 0.1024569 204 8.176298e+01 4.1397060 \*

 919) SatDom\_Reflect\_b1\_mean..80>=0.1024569 208 7.498789e+01 5.0602400 \*

 115) SatDom\_Reflect\_b5\_min..40< 0.2708813 4770 5.658046e+03 3.9604650

 230) METADom\_Chem\_rotation\_minus\_2\_ROUNDUP\_POWERMAX< 0.1117911 4298 4.550797e+03 3.8348930

 460) SatDom\_Reflect\_b7\_mean.0< 0.1017831 342 2.159574e+02 2.6074850

 920) SatDom\_NIR\_max..40< 0.1610531 148 1.818996e+01 1.8805410 \*

 921) SatDom\_NIR\_max..40>=0.1610531 194 5.989138e+01 3.1620620 \*

 461) SatDom\_Reflect\_b7\_mean.0>=0.1017831 3956 3.775064e+03 3.9410040

 922) METADom\_ESP\_10cm.test\_10cm>=4.15 344 2.010574e+02 2.8788950

 1844) BOMDom\_rainfall\_csum\_0>=144.55 115 4.999552e+01 2.2075650 \*

 1845) BOMDom\_rainfall\_csum\_0< 144.55 229 7.320568e+01 3.2160260 \*

 923) METADom\_ESP\_10cm.test\_10cm< 4.15 3612 3.148992e+03 4.0421570

 1846) SatDom\_blue\_band\_min..40>=0.03363438 3045 2.487301e+03 3.9242530

 3692) SatDom\_Reflect\_b7\_var.0>=9.926866e-06 2452 1.895285e+03 3.7873980

 7384) SatDom\_Reflect\_b5\_var.0< 0.000104433 1115 7.413650e+02 3.4559100

 14768) SatDom\_Reflect\_b5\_min..70>=0.207475 894 4.110960e+02 3.2688590

 29536) SatDom\_Reflect\_b3\_mean..70>=0.05193 614 2.292345e+02 3.0430780

 59072) SatDom\_MIR\_max..30< 0.2115406 473 1.424789e+02 2.8770400

 118144) BOMDom\_Longitude< 151.0605 356 7.572309e+01 2.7160670 \*

 118145) BOMDom\_Longitude>=151.0605 117 2.946253e+01 3.3668380 \*

 59073) SatDom\_MIR\_max..30>=0.2115406 141 2.997170e+01 3.6000710 \*

 29537) SatDom\_Reflect\_b3\_mean..70< 0.05193 280 8.192550e+01 3.7639640 \*

 14769) SatDom\_Reflect\_b5\_min..70< 0.207475 221 1.724564e+02 4.2125790 \*

 7385) SatDom\_Reflect\_b5\_var.0>=0.000104433 1337 9.292222e+02 4.0638440

 14770) METADom\_Fert\_rotation\_minus\_1\_PHOS< -1.048424e-17 589 2.142877e+02 3.6558570

 29540) SatDom\_red\_band\_var..30>=2.660856e-06 272 6.863758e+01 3.3147060 \*

 29541) SatDom\_red\_band\_var..30< 2.660856e-06 317 8.683086e+01 3.9485800 \*

 14771) METADom\_Fert\_rotation\_minus\_1\_PHOS>=-1.048424e-17 748 5.396927e+02 4.3851070

 29542) SatDom\_Reflect\_b6\_max..50< 0.2647625 360 2.879340e+02 4.0453610

 59084) METADom\_Chem\_rotation\_minus\_2\_TWO\_FOURD>=0.1220828 105 4.631754e+01 3.5307620 \*

 59085) METADom\_Chem\_rotation\_minus\_2\_TWO\_FOURD< 0.1220828 255 2.023619e+02 4.2572550 \*

 29543) SatDom\_Reflect\_b6\_max..50>=0.2647625 388 1.716499e+02 4.7003350

 59086) BOMDom\_Longitude>=148.7419 254 6.552542e+01 4.4786220 \*

 59087) BOMDom\_Longitude< 148.7419 134 6.997155e+01 5.1205970 \*

 3693) SatDom\_Reflect\_b7\_var.0< 9.926866e-06 593 3.561996e+02 4.4901350

 7386) SatDom\_Reflect\_b1..60< 3.039756 293 1.064059e+02 4.0650170 \*

 7387) SatDom\_Reflect\_b1..60>=3.039756 300 1.451243e+02 4.9053330 \*

 1847) SatDom\_blue\_band\_min..40< 0.03363438 567 3.920365e+02 4.6753440

 3694) SatDom\_LST\_night\_var..20< 5.920159 171 1.036643e+02 3.8585960 \*

 3695) SatDom\_LST\_night\_var..20>=5.920159 396 1.250447e+02 5.0280300

 7390) BOMDom\_Latitude< -34.54333 102 1.779020e+01 4.5731370 \*

 7391) BOMDom\_Latitude>=-34.54333 294 7.882514e+01 5.1858500 \*

 231) METADom\_Chem\_rotation\_minus\_2\_ROUNDUP\_POWERMAX>=0.1117911 472 4.223422e+02 5.1039190

 462) SatDom\_blue\_band\_max..30< 0.04949688 278 9.462562e+01 4.4943170 \*

 463) SatDom\_blue\_band\_max..30>=0.04949688 194 7.636646e+01 5.9774740 \*

 29) SatDom\_EvapoTrans\_min..60< 1.1125 525 1.715438e+03 5.6456380

 58) METADom\_Chem\_rotation\_minus\_3\_UNKNOWN>=0.5 424 4.198819e+02 4.9544810

 116) METADom\_Fertiliser\_time\_MAP< -2.465005 194 1.657604e+02 4.2901030 \*

 117) METADom\_Fertiliser\_time\_MAP>=-2.465005 230 9.626215e+01 5.5148700 \*

 59) METADom\_Chem\_rotation\_minus\_3\_UNKNOWN< 0.5 101 2.427285e+02 8.5471290 \*

 15) METADom\_Phos\_fert>=17.16 19759 4.470037e+04 4.2324500

 30) METADom\_Nitrogen\_fert\_repeat\_3< 31.05 18967 3.773467e+04 4.1461000

 60) METADom\_Fert\_rotation\_minus\_2\_THIRTY\_TWO\_TO\_NINE< 0.1 18049 3.164273e+04 4.0579420

 120) SatDom\_Latent\_heat\_max..10< 2285000 12277 2.100479e+04 3.8503940

 240) METADom\_total\_P\_10cm.test\_10cm< 19.5 1294 1.141092e+03 2.8276120

 480) BOMDom\_rainfall\_mean\_.40< 0.6 635 3.147512e+02 2.2691810

 960) METADom\_Fert\_rotation\_minus\_2\_SOA< 0.003833346 159 2.616088e+01 1.4391190 \*

 961) METADom\_Fert\_rotation\_minus\_2\_SOA>=0.003833346 476 1.424451e+02 2.5464500

 1922) SatDom\_NDVI\_min..10< 0.3017125 348 5.681932e+01 2.3723850 \*

 1923) SatDom\_NDVI\_min..10>=0.3017125 128 4.641579e+01 3.0196880 \*

 481) BOMDom\_rainfall\_mean\_.40>=0.6 659 4.375087e+02 3.3657060

 962) SatDom\_LST\_night\_var..70>=4.912232 443 1.335089e+02 2.9248980

 1924) BOMDom\_min\_temperature\_max\_.80>=20.85 152 2.995409e+01 2.4383550 \*

 1925) BOMDom\_min\_temperature\_max\_.80< 20.85 291 4.877793e+01 3.1790380 \*

 963) SatDom\_LST\_night\_var..70< 4.912232 216 4.137689e+01 4.2697690 \*

 241) METADom\_total\_P\_10cm.test\_10cm>=19.5 10983 1.835058e+04 3.9708970

 482) SatDom\_LST\_day\_mean..30< 46.7018 7641 1.152749e+04 3.7180030

 964) METADom\_Chem\_rotation\_minus\_2\_GOAL>=0.01100636 745 6.743295e+02 2.4992890

 1928) SatDom\_Pot\_latent\_heat\_max.0>=5003750 641 2.394234e+02 2.2344770

 3856) METADom\_Chem\_rotation\_minus\_2\_BALANCE< -1.669671e-17 316 4.582248e+01 1.7952530 \*

 3857) METADom\_Chem\_rotation\_minus\_2\_BALANCE>=-1.669671e-17 325 7.336503e+01 2.6615380

 7714) SatDom\_LST\_day..20< 3249.513 203 2.404245e+01 2.4335470 \*

 7715) SatDom\_LST\_day..20>=3249.513 122 2.121280e+01 3.0409020 \*

 1929) SatDom\_Pot\_latent\_heat\_max.0< 5003750 104 1.129077e+02 4.1314420 \*

 965) METADom\_Chem\_rotation\_minus\_2\_GOAL< 0.01100636 6896 9.627096e+03 3.8496650

 1930) SatDom\_EVI\_var..40< 2.033691e-06 1491 1.496295e+03 3.1258280

 3860) SatDom\_Emis31\_mean..20>=0.98326 965 7.825738e+02 2.7333260

 7720) SatDom\_LST\_night\_min..40< 22.4 144 6.129413e+01 1.5881940 \*

 7721) SatDom\_LST\_night\_min..40>=22.4 821 4.993284e+02 2.9341780

 15442) SatDom\_LST\_day\_mean..30>=42.88429 389 1.697293e+02 2.4139850

 30884) SatDom\_MixClouds\_csum..30< 7.5 218 3.939531e+01 2.1079820 \*

 30885) SatDom\_MixClouds\_csum..30>=7.5 171 8.389733e+01 2.8040940 \*

 15443) SatDom\_LST\_day\_mean..30< 42.88429 432 1.295491e+02 3.4025930

 30886) SatDom\_Pot\_latent\_heat.0< 6.998649e+08 244 6.767194e+01 3.1532380 \*

 30887) SatDom\_Pot\_latent\_heat.0>=6.998649e+08 188 2.701522e+01 3.7262230 \*

 3861) SatDom\_Emis31\_mean..20< 0.98326 526 2.923129e+02 3.8459130

 7722) SatDom\_NIR\_var..30< 6.837874e-06 213 5.966790e+01 3.2699530 \*

 7723) SatDom\_NIR\_var..30>=6.837874e-06 313 1.139029e+02 4.2378590 \*

 1931) SatDom\_EVI\_var..40>=2.033691e-06 5405 7.134110e+03 4.0493400

 3862) SatDom\_blue\_band\_var..80>=1.754557e-08 5267 6.135971e+03 3.9818550

 7724) SatDom\_GPP\_var..80< 7.224696e-07 2158 1.950667e+03 3.6208900

 15448) METADom\_Chem\_rotation\_minus\_2\_AFFINITY< 0.00832273 953 7.111530e+02 3.1872610

 30896) SatDom\_blue\_band\_var..70>=4.827717e-06 172 1.120080e+02 2.3202330 \*

 30897) SatDom\_blue\_band\_var..70< 4.827717e-06 781 4.413703e+02 3.3782070

 61794) SatDom\_Emis32\_mean.0< 0.98665 596 3.062685e+02 3.2061580

 123588) METADom\_sub\_cropWheat>=0.5 360 1.394973e+02 3.0003890

 247176) BOMDom\_min\_temperature\_csum\_.80< 152.35 221 5.489085e+01 2.7287330 \*

 247177) BOMDom\_min\_temperature\_csum\_.80>=152.35 139 4.236706e+01 3.4323020 \*

 123589) METADom\_sub\_cropWheat< 0.5 236 1.282769e+02 3.5200420 \*

 61795) SatDom\_Emis32\_mean.0>=0.98665 185 6.062286e+01 3.9324860 \*

 15449) METADom\_Chem\_rotation\_minus\_2\_AFFINITY>=0.00832273 1205 9.185973e+02 3.9638340

 30898) SatDom\_PsnNet\_var..60< 1.65941e-07 337 1.194953e+02 3.2222550

 61796) METADom\_Chem\_rotation\_minus\_1\_LONTREL< 0.03033847 201 6.314699e+01 2.9554230 \*

 61797) METADom\_Chem\_rotation\_minus\_1\_LONTREL>=0.03033847 136 2.088624e+01 3.6166180 \*

 30899) SatDom\_PsnNet\_var..60>=1.65941e-07 868 5.418185e+02 4.2517510

 61798) BOMDom\_max\_temperature\_min\_.30>=15.85 449 2.228644e+02 3.9301780

 123596) SatDom\_LST\_night\_mean..50>=30.159 245 1.064542e+02 3.5925310 \*

 123597) SatDom\_LST\_night\_mean..50< 30.159 204 5.493360e+01 4.3356860 \*

 61799) BOMDom\_max\_temperature\_min\_.30< 15.85 419 2.227683e+02 4.5963480

 123598) BOMDom\_Longitude>=147.8297 110 2.312586e+01 4.1806360 \*

 123599) BOMDom\_Longitude< 147.8297 309 1.738654e+02 4.7443370

 247198) SatDom\_Reflect\_b2\_mean..50>=0.2316794 198 6.043973e+01 4.5046970 \*

 247199) SatDom\_Reflect\_b2\_mean..50< 0.2316794 111 8.177244e+01 5.1718020 \*

 7725) SatDom\_GPP\_var..80>=7.224696e-07 3109 3.708955e+03 4.2324060

 15450) SatDom\_FPAR\_mean..30>=0.192125 2635 2.695255e+03 4.0273850

 30900) SatDom\_Reflect\_b6\_mean..50>=0.3636656 557 3.662417e+02 3.1250630

 61800) METADom\_Chem\_rotation\_minus\_1\_MAP< 0.003235 253 1.134783e+02 2.5698810 \*

 61801) METADom\_Chem\_rotation\_minus\_1\_MAP>=0.003235 304 1.098833e+02 3.5871050

 123602) METADom\_Chem\_rotation\_minus\_1\_BOXERGOLD< -3.729655e-17 187 2.085346e+01 3.2188770 \*

 123603) METADom\_Chem\_rotation\_minus\_1\_BOXERGOLD>=-3.729655e-17 117 2.314828e+01 4.1756410 \*

 30901) SatDom\_Reflect\_b6\_mean..50< 0.3636656 2078 1.753952e+03 4.2692490

 61802) SatDom\_EvapoTrans\_min..30< 7.4875 1511 1.038257e+03 4.0496290

 123604) SatDom\_FPAR\_min..50>=0.265 546 2.461377e+02 3.6442490

 247208) SatDom\_LST\_day\_max..50>=49.32 329 8.355860e+01 3.3547110

 494416) METADom\_Fert\_rotation\_minus\_1\_THIRTY\_TWO\_TO\_TEN>=-2.012279e-17 107 2.218136e+01 2.9814950 \*

 494417) METADom\_Fert\_rotation\_minus\_1\_THIRTY\_TWO\_TO\_TEN< -2.012279e-17 222 3.928971e+01 3.5345950 \*

 247209) SatDom\_LST\_day\_max..50< 49.32 217 9.318234e+01 4.0832260 \*

 123605) SatDom\_FPAR\_min..50< 0.265 965 6.516261e+02 4.2789950

 247210) SatDom\_LAI\_min..70< 0.325 562 2.362989e+02 3.9916900

 494420) SatDom\_GPP\_var..80>=1.678563e-06 206 3.847716e+01 3.6614560 \*

 494421) SatDom\_GPP\_var..80< 1.678563e-06 356 1.623569e+02 4.1827810 \*

 247211) SatDom\_LAI\_min..70>=0.325 403 3.042454e+02 4.6796530

 494422) SatDom\_LST\_night\_var..40>=3.328452 173 1.739676e+02 4.2600000 \*

 494423) SatDom\_LST\_night\_var..40< 3.328452 230 7.689473e+01 4.9953040 \*

 61803) SatDom\_EvapoTrans\_min..30>=7.4875 567 4.485976e+02 4.8545150

 123606) SatDom\_Reflect\_b1\_var..40< 2.635254e-05 376 2.428136e+02 4.5306120

 247212) MANDom\_Rows\_per\_plot\_6< 0.5 235 1.488603e+02 4.3422550 \*

 247213) MANDom\_Rows\_per\_plot\_6>=0.5 141 7.172030e+01 4.8445390 \*

 123607) SatDom\_Reflect\_b1\_var..40>=2.635254e-05 191 8.868102e+01 5.4921470 \*

 15451) SatDom\_FPAR\_mean..30< 0.192125 474 2.872291e+02 5.3721310

 30902) METADom\_Chem\_rotation\_minus\_2\_SUMMER< -7.589415e-18 222 9.539528e+01 4.8992790 \*

 30903) METADom\_Chem\_rotation\_minus\_2\_SUMMER>=-7.589415e-18 252 9.846967e+01 5.7886900 \*

 3863) SatDom\_blue\_band\_var..80< 1.754557e-08 138 5.865645e+01 6.6250000 \*

 483) SatDom\_LST\_day\_mean..30>=46.7018 3342 5.217107e+03 4.5491020

 966) METADom\_Chem\_rotation\_minus\_1\_TREFLAN< 0.06314856 1924 2.791629e+03 4.1004830

 1932) SatDom\_PsnNet..80< 0.2848437 660 6.611385e+02 3.2212730

 3864) SatDom\_LST\_night..70< 739.88 161 2.613328e+01 1.9164600 \*

 3865) SatDom\_LST\_night..70>=739.88 499 2.724569e+02 3.6422650

 7730) SatDom\_blue\_band\_var.0>=3.08336e-06 284 7.947001e+01 3.1972890 \*

 7731) SatDom\_blue\_band\_var.0< 3.08336e-06 215 6.247410e+01 4.2300470 \*

 1933) SatDom\_PsnNet..80>=0.2848437 1264 1.353908e+03 4.5595650

 3866) SatDom\_Reflect\_b3\_var..80>=1.456987e-06 1141 8.541435e+02 4.3843650

 7732) BOMDom\_rainfall\_mean\_.30>=0.45 475 3.077135e+02 3.9087160

 15464) SatDom\_Emis32..60>=30.5885 156 8.109474e+01 3.3379490 \*

 15465) SatDom\_Emis32..60< 30.5885 319 1.509450e+02 4.1878370

 30930) METADom\_Chem\_rotation\_minus\_2\_PARAQUAT>=0.0001414427 147 8.321966e+01 3.8746940 \*

 30931) METADom\_Chem\_rotation\_minus\_2\_PARAQUAT< 0.0001414427 172 4.099126e+01 4.4554650 \*

 7733) BOMDom\_rainfall\_mean\_.30< 0.45 666 3.623198e+02 4.7236040

 15466) SatDom\_Reflect\_b3\_var..20>=2.712584e-05 246 8.555463e+01 4.2243090 \*

 15467) SatDom\_Reflect\_b3\_var..20< 2.712584e-05 420 1.795186e+02 5.0160480

 30934) BOMDom\_solar\_exposure\_min\_.20< 4.35 311 1.152438e+02 4.8751770 \*

 30935) BOMDom\_solar\_exposure\_min\_.20>=4.35 109 4.049416e+01 5.4179820 \*

 3867) SatDom\_Reflect\_b3\_var..80< 1.456987e-06 123 1.398517e+02 6.1847970 \*

 967) METADom\_Chem\_rotation\_minus\_1\_TREFLAN>=0.06314856 1418 1.512856e+03 5.1578070

 1934) SatDom\_Pot\_EvapoTrans\_min.0>=20.58125 1160 9.652543e+02 4.9125600

 3868) SatDom\_EVI\_mean..40< 0.2052053 1050 7.358187e+02 4.7854190

 7736) METADom\_Fert\_rotation\_minus\_1\_GRANULOCK< -1.03563e-16 122 9.802649e+01 3.7932790 \*

 7737) METADom\_Fert\_rotation\_minus\_1\_GRANULOCK>=-1.03563e-16 928 5.019147e+02 4.9158510

 15474) SatDom\_Reflect\_b4\_var..40< 3.825216e-06 124 5.509628e+01 4.2409680 \*

 15475) SatDom\_Reflect\_b4\_var..40>=3.825216e-06 804 3.816299e+02 5.0199380

 30950) SatDom\_red\_band\_min..80>=0.15565 430 1.074900e+02 4.8345120 \*

 30951) SatDom\_red\_band\_min..80< 0.15565 374 2.423568e+02 5.2331280 \*

 3869) SatDom\_EVI\_mean..40>=0.2052053 110 5.044600e+01 6.1261820 \*

 1935) SatDom\_Pot\_EvapoTrans\_min.0< 20.58125 258 1.641419e+02 6.2604650 \*

 121) SatDom\_Latent\_heat\_max..10>=2285000 5772 8.984252e+03 4.4993940

 242) METADom\_total\_N\_10cm.test\_10cm< 40.6 3747 4.805004e+03 4.2157620

 484) SatDom\_LST\_day..80>=656.605 695 6.560211e+02 3.4046470

 968) SatDom\_Reflect\_b2\_mean..40>=0.2621475 169 1.373339e+02 2.2328990 \*

 969) SatDom\_Reflect\_b2\_mean..40< 0.2621475 526 2.120998e+02 3.7811220

 1938) BOMDom\_max\_temperature\_min\_.50< 23.95 366 8.749664e+01 3.5655460 \*

 1939) BOMDom\_max\_temperature\_min\_.50>=23.95 160 6.868611e+01 4.2742500 \*

 485) SatDom\_LST\_day..80< 656.605 3052 3.587614e+03 4.4004690

 970) SatDom\_red\_band\_var..60< 7.720737e-06 1445 1.300625e+03 3.9622910

 1940) SatDom\_Reflect\_b1\_var..40< 2.537063e-05 698 4.402033e+02 3.4728800

 3880) SatDom\_Latent\_heat\_min..80< 3371250 542 2.258597e+02 3.2511070

 7760) SatDom\_LST\_day\_min.0>=33.78 158 6.233039e+01 2.6488610 \*

 7761) SatDom\_LST\_day\_min.0< 33.78 384 8.264334e+01 3.4989060 \*

 3881) SatDom\_Latent\_heat\_min..80>=3371250 156 9.506950e+01 4.2433970 \*

 1941) SatDom\_Reflect\_b1\_var..40>=2.537063e-05 747 5.370141e+02 4.4195980

 3882) SatDom\_Emis32.0< 89.7865 574 3.595486e+02 4.1934670

 7764) METADom\_Fert\_rotation\_minus\_1\_DAP>=0.05217489 392 2.073745e+02 3.9639030

 15528) SatDom\_Reflect\_b3.0< 5.222106 168 3.446596e+01 3.6911900 \*

 15529) SatDom\_Reflect\_b3.0>=5.222106 224 1.510432e+02 4.1684370 \*

 7765) METADom\_Fert\_rotation\_minus\_1\_DAP< 0.05217489 182 8.702121e+01 4.6879120 \*

 3883) SatDom\_Emis32.0>=89.7865 173 5.072700e+01 5.1698840 \*

 971) SatDom\_red\_band\_var..60>=7.720737e-06 1607 1.760078e+03 4.7944740

 1942) SatDom\_Latent\_heat\_var..80>=7.872057e+09 1177 9.209494e+02 4.4854800

 3884) SatDom\_EvapoTrans..30< 643.5 355 1.445093e+02 3.8543380

 7768) METADom\_Fert\_rotation\_minus\_2\_Z< -3.538836e-17 153 4.500574e+01 3.4757520 \*

 7769) METADom\_Fert\_rotation\_minus\_2\_Z>=-3.538836e-17 202 6.096476e+01 4.1410890 \*

 3885) SatDom\_EvapoTrans..30>=643.5 822 5.739577e+02 4.7580540

 7770) SatDom\_blue\_band\_var..40>=8.252331e-07 428 1.899998e+02 4.4109350

 15540) SatDom\_LST\_day\_var..70>=8.115285 147 7.759947e+01 3.9866670 \*

 15541) SatDom\_LST\_day\_var..70< 8.115285 281 7.209757e+01 4.6328830 \*

 7771) SatDom\_blue\_band\_var..40< 8.252331e-07 394 2.763668e+02 5.1351270

 15542) SatDom\_FPAR\_var..10>=0.0007167448 280 1.867618e+02 4.9293930 \*

 15543) SatDom\_FPAR\_var..10< 0.0007167448 114 4.864488e+01 5.6404390 \*

 1943) SatDom\_Latent\_heat\_var..80< 7.872057e+09 430 4.191527e+02 5.6402560

 3886) SatDom\_Reflect\_b6\_max..80>=0.3683125 256 2.009067e+02 5.1942970 \*

 3887) SatDom\_Reflect\_b6\_max..80< 0.3683125 174 9.242622e+01 6.2963790 \*

 243) METADom\_total\_N\_10cm.test\_10cm>=40.6 2025 3.320047e+03 5.0242170

 486) METADom\_Chem\_rotation\_minus\_2\_BRODAL< 0.003576852 864 9.491014e+02 4.3815620

 972) SatDom\_blue\_band\_var..30>=7.012467e-06 188 1.125076e+02 3.3569150 \*

 973) SatDom\_blue\_band\_var..30< 7.012467e-06 676 5.843189e+02 4.6665240

 1946) SatDom\_Latent\_heat\_mean..50>=1085750 550 3.826990e+02 4.4734550

 3892) SatDom\_NIR\_var..20>=6.637953e-05 225 1.594500e+02 4.1514670 \*

 3893) SatDom\_NIR\_var..20< 6.637953e-05 325 1.837723e+02 4.6963690 \*

 1947) SatDom\_Latent\_heat\_mean..50< 1085750 126 9.162704e+01 5.5092860 \*

 487) METADom\_Chem\_rotation\_minus\_2\_BRODAL>=0.003576852 1161 1.748557e+03 5.5024720

 974) SatDom\_PsnNet\_var..50>=7.794809e-07 438 6.357493e+02 4.7993380

 1948) SatDom\_Pot\_latent\_heat\_var.0>=2.751216e+11 154 1.458212e+02 3.9161690 \*

 1949) SatDom\_Pot\_latent\_heat\_var.0< 2.751216e+11 284 3.046755e+02 5.2782390 \*

 975) SatDom\_PsnNet\_var..50< 7.794809e-07 723 7.650757e+02 5.9284370

 1950) BOMDom\_min\_temperature\_var\_.10< 13.39406 558 4.167728e+02 5.6173660

 3900) SatDom\_MIR\_var..80>=2.058382e-05 263 1.671217e+02 5.2344110 \*

 3901) SatDom\_MIR\_var..80< 2.058382e-05 295 1.766948e+02 5.9587800 \*

 1951) BOMDom\_min\_temperature\_var\_.10>=13.39406 165 1.117061e+02 6.9804240 \*

 61) METADom\_Fert\_rotation\_minus\_2\_THIRTY\_TWO\_TO\_NINE>=0.1 918 3.193691e+03 5.8794010

 122) METADom\_Chem\_rotation\_minus\_1\_GOAL>=0.003762028 203 4.776409e+02 3.3966500 \*

 123) METADom\_Chem\_rotation\_minus\_1\_GOAL< 0.003762028 715 1.109483e+03 6.5842940

 246) METADom\_Organic\_C\_10cm.test\_10cm< 1.05 306 1.587312e+02 5.6274510

 492) METADom\_Chem\_rotation\_minus\_1\_LT>=-1.897354e-18 189 5.539891e+01 5.3480950 \*

 493) METADom\_Chem\_rotation\_minus\_1\_LT< -1.897354e-18 117 6.475671e+01 6.0787180 \*

 247) METADom\_Organic\_C\_10cm.test\_10cm>=1.05 409 4.609893e+02 7.3001710

 494) METADom\_Chem\_rotation\_minus\_2\_STARANE>=0.0001257862 210 1.482361e+02 6.6666190 \*

 495) METADom\_Chem\_rotation\_minus\_2\_STARANE< 0.0001257862 199 1.395108e+02 7.9687440 \*

 31) METADom\_Nitrogen\_fert\_repeat\_3>=31.05 792 3.437467e+03 6.3003660

 62) METADom\_pH\_CaCl2\_10cm.test\_10cm>=6.075 335 2.998472e+02 4.4923280

 124) SatDom\_PsnNet\_min..30< 0.0041875 152 7.710895e+01 3.8280920 \*

 125) SatDom\_PsnNet\_min..30>=0.0041875 183 9.997101e+01 5.0440440 \*

 63) METADom\_pH\_CaCl2\_10cm.test\_10cm< 6.075 457 1.239739e+03 7.6257330

 126) SatDom\_EVI\_var..20< 1.419524e-05 118 2.510349e+02 5.8200850 \*

 127) SatDom\_EVI\_var..20>=1.419524e-05 339 4.700659e+02 8.2542480

 254) SatDom\_EvapoTrans..40< 262359 238 1.285406e+02 7.8323110 \*

 255) SatDom\_EvapoTrans..40>=262359 101 1.993087e+02 9.2485150 \*

**Cross-Species ‘Omnibus’ Regression tree: Predicted at End of Season**

**Leaf values indicate node-average yield, in t/Ha**

**Model Accuracy: Missing Site Prediction R2 = 0.70; p<0.0001**

**n= 97333**

**node), split, n, deviance, yval**

 **\* denotes terminal node**

 1) root 97333 2.139798e+05 3.0011290

 2) SatDom\_Latent\_heat\_250< 7.149511e+08 38822 4.953533e+04 2.2059310

 4) BOMDom\_rainfall\_csum\_180< 277.3 18461 1.809311e+04 1.7938420

 8) SatDom\_Reflect\_b6\_max\_110>=0.246525 10201 7.612290e+03 1.4832390

 16) METADom\_IODOSULFURON\_METHYL\_SODIUM< 0.05594712 10043 5.109848e+03 1.4312790

 32) SatDom\_Reflect\_b1\_min\_150>=0.1634125 2707 6.813167e+02 1.0512860

 64) BOMDom\_min\_temperature\_var\_160>=5.511389 2275 4.544425e+02 0.9479297

 128) SatDom\_MIR\_min\_140>=0.3157031 838 5.340488e+01 0.6644272

 256) SatDom\_Emis31\_var\_50>=6.944444e-07 619 2.182237e+01 0.5684814 \*

 257) SatDom\_Emis31\_var\_50< 6.944444e-07 219 9.778192e+00 0.9356164 \*

 129) SatDom\_MIR\_min\_140< 0.3157031 1437 2.944070e+02 1.1132570

 258) SatDom\_FPAR\_var\_180>=2.392361e-05 978 1.295949e+02 0.9624131

 516) SatDom\_Latent\_heat\_var\_210< 4.82874e+10 761 6.683769e+01 0.8518528

 1032) SatDom\_Reflect\_b4\_var\_50< 3.471727e-05 398 2.097565e+01 0.6912814 \*

 1033) SatDom\_Reflect\_b4\_var\_50>=3.471727e-05 363 2.434921e+01 1.0279060 \*

 517) SatDom\_Latent\_heat\_var\_210>=4.82874e+10 217 2.083330e+01 1.3501380 \*

 259) SatDom\_FPAR\_var\_180< 2.392361e-05 459 9.514342e+01 1.4346620

 518) METADom\_Chem\_rotation\_minus\_2\_LOGRAN>=0.01668498 285 3.457796e+01 1.2031580 \*

 519) METADom\_Chem\_rotation\_minus\_2\_LOGRAN< 0.01668498 174 2.027272e+01 1.8138510 \*

 65) BOMDom\_min\_temperature\_var\_160< 5.511389 432 7.458946e+01 1.5955790

 130) SatDom\_PsnNet\_var\_160>=1.43362e-07 267 1.786583e+01 1.3453930 \*

 131) SatDom\_PsnNet\_var\_160< 1.43362e-07 165 1.296787e+01 2.0004240 \*

 33) SatDom\_Reflect\_b1\_min\_150< 0.1634125 7336 3.893418e+03 1.5714980

 66) METADom\_Dicot\_TF>=0.5 1862 6.601364e+02 1.0724920

 132) BOMDom\_solar\_exposure\_mean\_.40< 20.05 1595 3.673858e+02 0.9559060

 264) SatDom\_MIR\_mean\_190>=0.2904969 1157 1.352728e+02 0.8284183

 528) SatDom\_FPAR\_min..30< 0.16125 900 7.692619e+01 0.7494111 \*

 529) SatDom\_FPAR\_min..30>=0.16125 257 3.305502e+01 1.1050970 \*

 265) SatDom\_MIR\_mean\_190< 0.2904969 438 1.636342e+02 1.2926710

 530) SatDom\_LST\_day\_max\_70< 33.54 222 1.826400e+01 0.8900000 \*

 531) SatDom\_LST\_day\_max\_70>=33.54 216 7.237830e+01 1.7065280 \*

 133) BOMDom\_solar\_exposure\_mean\_.40>=20.05 267 1.415611e+02 1.7689510 \*

 67) METADom\_Dicot\_TF< 0.5 5474 2.611918e+03 1.7412370

 134) METADom\_Fert\_rotation\_minus\_1\_TWENTY\_EIGHT\_TO\_THIRTEEN>=-5.55762e-17 5372 2.072713e+03 1.7021630

 268) SatDom\_Reflect\_b7\_min\_150>=0.2240125 2844 8.482412e+02 1.5024610

 536) SatDom\_blue\_band\_var\_20< 9.39467e-07 1408 2.994441e+02 1.2490480

 1072) SatDom\_FPAR\_var\_130< 0.001527396 937 1.326459e+02 1.0527530

 2144) SatDom\_Reflect\_b5\_var\_70>=8.130503e-05 655 6.180188e+01 0.9107023

 4288) METADom\_Fert\_rotation\_minus\_2\_LEGUME< 0.0008196721 430 2.394307e+01 0.7602558 \*

 4289) METADom\_Fert\_rotation\_minus\_2\_LEGUME>=0.0008196721 225 9.525889e+00 1.1982220 \*

 2145) SatDom\_Reflect\_b5\_var\_70< 8.130503e-05 282 2.692815e+01 1.3826950 \*

 1073) SatDom\_FPAR\_var\_130>=0.001527396 471 5.886901e+01 1.6395540

 2146) SatDom\_Reflect\_b3\_var\_110>=6.989695e-06 175 9.435678e+00 1.2866860 \*

 2147) SatDom\_Reflect\_b3\_var\_110< 6.989695e-06 296 1.476021e+01 1.8481760 \*

 537) SatDom\_blue\_band\_var\_20>=9.39467e-07 1436 3.697217e+02 1.7509330

 1074) SatDom\_blue\_band\_max\_220< 0.09935625 1095 1.951980e+02 1.5924380

 2148) SatDom\_FPAR\_40< 21.73 343 3.340441e+01 1.2681340 \*

 2149) SatDom\_FPAR\_40>=21.73 752 1.092650e+02 1.7403590

 4298) SatDom\_Reflect\_b7\_var..20>=0.0005621688 214 1.263221e+01 1.4211680 \*

 4299) SatDom\_Reflect\_b7\_var..20< 0.0005621688 538 6.615735e+01 1.8673230 \*

 1075) SatDom\_blue\_band\_max\_220>=0.09935625 341 5.868760e+01 2.2598830

 2150) SatDom\_blue\_band\_max\_200>=0.1140656 143 6.181324e+00 1.8855940 \*

 2151) SatDom\_blue\_band\_max\_200< 0.1140656 198 1.800479e+01 2.5302020 \*

 269) SatDom\_Reflect\_b7\_min\_150< 0.2240125 2528 9.834526e+02 1.9268280

 538) SatDom\_LST\_night\_mean\_100< 25.7995 1818 5.285049e+02 1.7277060

 1076) SatDom\_Reflect\_b4\_mean\_140>=0.07354563 1403 2.813711e+02 1.5795300

 2152) SatDom\_Emis31\_var\_220< 9.166667e-07 1053 1.523225e+02 1.4700090

 4304) SatDom\_LAI\_var\_100< 0.01808333 334 4.824481e+01 1.2205090 \*

 4305) SatDom\_LAI\_var\_100>=0.01808333 719 7.362758e+01 1.5859110 \*

 2153) SatDom\_Emis31\_var\_220>=9.166667e-07 350 7.841887e+01 1.9090290 \*

 1077) SatDom\_Reflect\_b4\_mean\_140< 0.07354563 415 1.121868e+02 2.2286510

 2154) SatDom\_GPP..70< 0.1855125 267 3.754014e+01 1.9684270 \*

 2155) SatDom\_GPP..70>=0.1855125 148 2.394867e+01 2.6981080 \*

 539) SatDom\_LST\_night\_mean\_100>=25.7995 710 1.982937e+02 2.4366900

 1078) SatDom\_MIR\_mean\_90>=0.1369219 315 4.868371e+01 2.0509520 \*

 1079) SatDom\_MIR\_mean\_90< 0.1369219 395 6.536268e+01 2.7443040

 2158) SatDom\_Latent\_heat\_110>=3.445169e+08 283 2.687364e+01 2.5834980 \*

 2159) SatDom\_Latent\_heat\_110< 3.445169e+08 112 1.268026e+01 3.1506250 \*

 135) METADom\_Fert\_rotation\_minus\_1\_TWENTY\_EIGHT\_TO\_THIRTEEN< -5.55762e-17 102 9.904542e+01 3.7991180 \*

 17) METADom\_IODOSULFURON\_METHYL\_SODIUM>=0.05594712 158 7.518804e+02 4.7859490 \*

 9) SatDom\_Reflect\_b6\_max\_110< 0.246525 8260 8.281293e+03 2.1774320

 18) METADom\_Dicot\_TF>=0.5 2721 1.659189e+03 1.4852960

 36) SatDom\_PsnNet\_mean\_180< 0.014995 2215 6.867679e+02 1.3291020

 72) SatDom\_LST\_day\_min\_80< 28.97 489 6.093764e+01 0.9039059

 144) SatDom\_LST\_night\_var..40< 9.089281 375 2.478385e+01 0.7706400 \*

 145) SatDom\_LST\_night\_var..40>=9.089281 114 7.586207e+00 1.3422810 \*

 73) SatDom\_LST\_day\_min\_80>=28.97 1726 5.123764e+02 1.4495650

 146) SatDom\_LST\_night\_190< 8606.534 1451 3.499572e+02 1.3651620

 292) SatDom\_FPAR\_mean..30< 0.138 429 7.099699e+01 1.0616780

 584) BOMDom\_max\_temperature\_max\_180< 39.2 262 2.205212e+01 0.8281679 \*

 585) BOMDom\_max\_temperature\_max\_180>=39.2 167 1.224585e+01 1.4280240 \*

 293) SatDom\_FPAR\_mean..30>=0.138 1022 2.228626e+02 1.4925540

 586) SatDom\_Emis31..40>=50.15217 313 3.607416e+01 1.1845370 \*

 587) SatDom\_Emis31..40< 50.15217 709 1.439831e+02 1.6285330

 1174) SatDom\_Reflect\_b3\_var..20< 1.831803e-05 467 7.968415e+01 1.4955250 \*

 1175) SatDom\_Reflect\_b3\_var..20>=1.831803e-05 242 4.009384e+01 1.8852070 \*

 147) SatDom\_LST\_night\_190>=8606.534 275 9.754127e+01 1.8949090 \*

 37) SatDom\_PsnNet\_mean\_180>=0.014995 506 6.818300e+02 2.1690320

 74) SatDom\_MIR\_max\_40>=0.1773875 286 1.568895e+02 1.5306290 \*

 75) SatDom\_MIR\_max\_40< 0.1773875 220 2.568493e+02 2.9989550 \*

 19) METADom\_Dicot\_TF< 0.5 5539 4.678264e+03 2.5174400

 38) SatDom\_Reflect\_b7\_max..40>=0.259275 4426 2.917058e+03 2.3307840

 76) SatDom\_Emis31\_var\_160< 9.611111e-07 3611 1.805136e+03 2.1599890

 152) SatDom\_GPP\_140< 3.54865 1436 4.972924e+02 1.7733430

 304) BOMDom\_rainfall\_mean\_170>=0.28 717 1.621493e+02 1.4467640

 608) BOMDom\_rainfall\_mean\_.20>=0.37 389 6.345188e+01 1.1867870 \*

 609) BOMDom\_rainfall\_mean\_.20< 0.37 328 4.122400e+01 1.7550910 \*

 305) BOMDom\_rainfall\_mean\_170< 0.28 719 1.824148e+02 2.0990130

 610) SatDom\_red\_band\_mean..40>=0.1598322 286 3.260159e+01 1.6738810 \*

 611) SatDom\_red\_band\_mean..40< 0.1598322 433 6.398039e+01 2.3798150 \*

 153) SatDom\_GPP\_140>=3.54865 2175 9.514336e+02 2.4152640

 306) SatDom\_Pot\_latent\_heat\_var\_210>=1.303697e+12 977 2.559685e+02 2.0457220

 612) SatDom\_Latent\_heat\_var\_220< 5.920911e+10 739 1.256694e+02 1.8895400

 1224) SatDom\_PsnNet\_min\_40< 0.00625 107 2.643661e+01 1.4021500 \*

 1225) SatDom\_PsnNet\_min\_40>=0.00625 632 6.951173e+01 1.9720570 \*

 613) SatDom\_Latent\_heat\_var\_220>=5.920911e+10 238 5.630069e+01 2.5306720 \*

 307) SatDom\_Pot\_latent\_heat\_var\_210< 1.303697e+12 1198 4.532359e+02 2.7166360

 614) SatDom\_Reflect\_b5\_var\_10>=8.960882e-05 711 1.985072e+02 2.4390300

 1228) SatDom\_Reflect\_b5\_var\_150< 7.165549e-06 118 2.633485e+01 1.8380510 \*

 1229) SatDom\_Reflect\_b5\_var\_150>=7.165549e-06 593 1.210731e+02 2.5586170

 2458) METADom\_Chem\_rotation\_minus\_2\_ATLANTIS>=-2.094679e-17 449 7.133409e+01 2.4358570 \*

 2459) METADom\_Chem\_rotation\_minus\_2\_ATLANTIS< -2.094679e-17 144 2.187452e+01 2.9413890 \*

 615) SatDom\_Reflect\_b5\_var\_10< 8.960882e-05 487 1.199390e+02 3.1219300

 1230) SatDom\_LST\_day\_min\_50< 30.34 177 1.086045e+01 2.6873450 \*

 1231) SatDom\_LST\_day\_min\_50>=30.34 310 5.656260e+01 3.3700650 \*

 77) SatDom\_Emis31\_var\_160>=9.611111e-07 815 5.398742e+02 3.0875210

 154) SatDom\_GPP\_mean\_180< 0.00903125 214 5.614788e+01 2.0296730 \*

 155) SatDom\_GPP\_mean\_180>=0.00903125 601 1.589802e+02 3.4641930

 310) SatDom\_LST\_day\_mean.0< 37.959 169 1.406887e+01 2.9515980 \*

 311) SatDom\_LST\_day\_mean.0>=37.959 432 8.313437e+01 3.6647220 \*

 39) SatDom\_Reflect\_b7\_max..40< 0.259275 1113 9.937890e+02 3.2597040

 78) BOMDom\_min\_temperature\_var\_130>=8.551556 780 4.817174e+02 2.8771790

 156) SatDom\_Reflect\_b3\_mean\_210< 0.0818475 309 8.615114e+01 2.2261170

 312) SatDom\_FPAR\_var..10< 0.0004043403 126 9.744537e+00 1.7424600 \*

 313) SatDom\_FPAR\_var..10>=0.0004043403 183 2.663846e+01 2.5591260 \*

 157) SatDom\_Reflect\_b3\_mean\_210>=0.0818475 471 1.786570e+02 3.3043100

 314) SatDom\_Reflect\_b6\_max\_170< 0.3487 286 6.307072e+01 3.0808040 \*

 315) SatDom\_Reflect\_b6\_max\_170>=0.3487 185 7.921210e+01 3.6498380 \*

 79) BOMDom\_min\_temperature\_var\_130< 8.551556 333 1.305994e+02 4.1557060

 158) SatDom\_FPAR\_mean..10< 0.222625 196 4.120047e+01 3.8114800 \*

 159) SatDom\_FPAR\_mean..10>=0.222625 137 3.294844e+01 4.6481750 \*

 5) BOMDom\_rainfall\_csum\_180>=277.3 20361 2.546476e+04 2.5795660

 10) METADom\_Dicot\_TF>=0.5 5745 3.544675e+03 1.9398800

 20) SatDom\_Pot\_latent\_heat\_max\_140>=6127859 5127 2.747265e+03 1.8444590

 40) SatDom\_PsnNet\_mean\_190< 0.00935625 2094 9.465647e+02 1.5879370

 80) BOMDom\_min\_temperature\_min\_.30< 10.15 1493 4.890747e+02 1.4144680

 160) SatDom\_NDVI\_var..70< 1.916068e-05 1234 2.919246e+02 1.3140110

 320) SatDom\_MixClouds\_10< 4.5 966 1.704210e+02 1.2027430

 640) SatDom\_FPAR\_max..80< 0.16875 720 9.266475e+01 1.1037920

 1280) SatDom\_LST\_night\_max\_250< 45.435 575 5.680996e+01 1.0139650 \*

 1281) SatDom\_LST\_night\_max\_250>=45.435 145 1.281700e+01 1.4600000 \*

 641) SatDom\_FPAR\_max..80>=0.16875 246 5.007283e+01 1.4923580 \*

 321) SatDom\_MixClouds\_10>=4.5 268 6.643570e+01 1.7150750 \*

 161) SatDom\_NDVI\_var..70>=1.916068e-05 259 1.253659e+02 1.8930890 \*

 81) BOMDom\_min\_temperature\_min\_.30>=10.15 601 3.009562e+02 2.0188690

 162) SatDom\_Latent\_heat\_mean\_170< 594553.9 135 5.070829e+01 1.3068890 \*

 163) SatDom\_Latent\_heat\_mean\_170>=594553.9 466 1.619892e+02 2.2251290

 326) SatDom\_Reflect\_b5\_min..20< 0.3358375 328 6.884037e+01 2.0032320

 652) SatDom\_LST\_day\_mean\_80< 35.318 127 2.112774e+01 1.6572440 \*

 653) SatDom\_LST\_day\_mean\_80>=35.318 201 2.290402e+01 2.2218410 \*

 327) SatDom\_Reflect\_b5\_min..20>=0.3358375 138 3.861281e+01 2.7525360 \*

 41) SatDom\_PsnNet\_mean\_190>=0.00935625 3033 1.567775e+03 2.0215630

 82) BOMDom\_min\_temperature\_mean\_.30< 14.305 2402 1.047789e+03 1.9070650

 164) SatDom\_Reflect\_b2\_min\_90>=0.2356875 1999 7.497884e+02 1.8094600

 328) SatDom\_GPP\_var\_130< 7.704326e-06 1176 4.054023e+02 1.6463520

 656) SatDom\_Latent\_heat\_250< 6.920408e+08 1063 2.811154e+02 1.5746570

 1312) SatDom\_LST\_night\_max..40< 33.85 343 6.818071e+01 1.2805250 \*

 1313) SatDom\_LST\_night\_max..40>=33.85 720 1.691242e+02 1.7147780

 2626) SatDom\_LST\_night\_max..60>=37.87 427 8.130578e+01 1.5327870

 5252) SatDom\_LST\_day\_var\_100>=3.313666 126 1.075820e+01 1.1219840 \*

 5253) SatDom\_LST\_day\_var\_100< 3.313666 301 4.038291e+01 1.7047510 \*

 2627) SatDom\_LST\_night\_max..60< 37.87 293 5.306540e+01 1.9800000 \*

 657) SatDom\_Latent\_heat\_250>=6.920408e+08 113 6.742183e+01 2.3207960 \*

 329) SatDom\_GPP\_var\_130>=7.704326e-06 823 2.683939e+02 2.0425270

 658) BOMDom\_min\_temperature\_var\_220>=23.0945 159 3.436242e+01 1.4359750 \*

 659) BOMDom\_min\_temperature\_var\_220< 23.0945 664 1.615269e+02 2.1877710

 1318) SatDom\_Reflect\_b1\_mean\_180>=0.1557662 292 4.211989e+01 1.9048290 \*

 1319) SatDom\_Reflect\_b1\_mean\_180< 0.1557662 372 7.768129e+01 2.4098660 \*

 165) SatDom\_Reflect\_b2\_min\_90< 0.2356875 403 1.844925e+02 2.3912160

 330) SatDom\_PsnNet\_mean\_40>=0.00390625 296 8.068540e+01 2.1525340 \*

 331) SatDom\_PsnNet\_mean\_40< 0.00390625 107 4.029556e+01 3.0514950 \*

 83) BOMDom\_min\_temperature\_mean\_.30>=14.305 631 3.686265e+02 2.4574170

 166) BOMDom\_min\_temperature\_var\_.20>=9.189667 246 9.829239e+01 1.9802440 \*

 167) BOMDom\_min\_temperature\_var\_.20< 9.189667 385 1.785314e+02 2.7623120

 334) SatDom\_FPAR\_var..40< 6.430556e-05 189 3.203592e+01 2.3960320 \*

 335) SatDom\_FPAR\_var..40>=6.430556e-05 196 9.668825e+01 3.1155100 \*

 21) SatDom\_Pot\_latent\_heat\_max\_140< 6127859 618 3.634459e+02 2.7315050

 42) SatDom\_Reflect\_b7\_var\_30< 0.0003580819 508 1.902334e+02 2.5096260

 84) SatDom\_Emis32\_var\_160< 4.888889e-07 102 2.145766e+01 1.8488240 \*

 85) SatDom\_Emis32\_var\_160>=4.888889e-07 406 1.130468e+02 2.6756400

 170) SatDom\_Reflect\_b5\_max\_50>=0.2771062 257 3.726409e+01 2.4798050 \*

 171) SatDom\_Reflect\_b5\_max\_50< 0.2771062 149 4.892595e+01 3.0134230 \*

 43) SatDom\_Reflect\_b7\_var\_30>=0.0003580819 110 3.270760e+01 3.7561820 \*

 11) METADom\_Dicot\_TF< 0.5 14616 1.864521e+04 2.8310030

 22) SatDom\_MIR\_mean\_150>=0.1676194 10927 9.245363e+03 2.5366650

 44) SatDom\_GPP\_max\_130< 0.02310625 1913 8.981248e+02 1.7704390

 88) METADom\_PROPICONAZOLE\_repeat\_1< 180.2363 1591 4.564645e+02 1.5892460

 176) SatDom\_Reflect\_b1\_min\_190>=0.1844875 685 1.031964e+02 1.2465690

 352) SatDom\_red\_band\_var\_40< 8.387858e-06 407 2.328119e+01 1.0215720 \*

 353) SatDom\_red\_band\_var\_40>=8.387858e-06 278 2.914689e+01 1.5759710 \*

 177) SatDom\_Reflect\_b1\_min\_190< 0.1844875 906 2.120140e+02 1.8483330

 354) BOMDom\_solar\_exposure\_var\_.20< 3.909556 471 6.665983e+01 1.5833120 \*

 355) BOMDom\_solar\_exposure\_var\_.20>=3.909556 435 7.645384e+01 2.1352870 \*

 89) METADom\_PROPICONAZOLE\_repeat\_1>=180.2363 322 1.313375e+02 2.6657140

 178) METADom\_IMAZAPYR>=25.15533 201 2.952800e+01 2.2676620 \*

 179) METADom\_IMAZAPYR< 25.15533 121 1.705797e+01 3.3269420 \*

 45) SatDom\_GPP\_max\_130>=0.02310625 9014 6.985756e+03 2.6992780

 90) METADom\_METALAXYL\_M< 0.3071952 8180 5.421380e+03 2.6040510

 180) SatDom\_NIR\_mean\_110< 0.3337466 5281 3.342761e+03 2.4196000

 360) SatDom\_LST\_night\_max\_10< 30.83 3851 1.769373e+03 2.2326690

 720) SatDom\_Reflect\_b7\_var..30>=0.0001004051 1934 6.253336e+02 1.9752330

 1440) SatDom\_Emis31\_mean\_150< 0.98345 1327 3.197776e+02 1.7923440

 2880) SatDom\_LST\_night\_var\_180< 3.738174 465 8.396056e+01 1.4463660

 5760) SatDom\_Latent\_heat\_mean..30< 1130745 243 1.625642e+01 1.1976130 \*

 5761) SatDom\_Latent\_heat\_mean..30>=1130745 222 3.620919e+01 1.7186490 \*

 2881) SatDom\_LST\_night\_var\_180>=3.738174 862 1.501303e+02 1.9789790

 5762) SatDom\_EvapoTrans\_min..20< 3.775 394 3.501975e+01 1.7278930 \*

 5763) SatDom\_EvapoTrans\_min..20>=3.775 468 6.935944e+01 2.1903630 \*

 1441) SatDom\_Emis31\_mean\_150>=0.98345 607 1.641350e+02 2.3750580

 2882) BOMDom\_max\_temperature\_min\_170>=21.55 306 4.487567e+01 2.0228760 \*

 2883) BOMDom\_max\_temperature\_min\_170< 21.55 301 4.272123e+01 2.7330900 \*

 721) SatDom\_Reflect\_b7\_var..30< 0.0001004051 1917 8.865561e+02 2.4923890

 1442) SatDom\_blue\_band\_min\_100>=0.03840937 290 9.230200e+01 1.6805860 \*

 1443) SatDom\_blue\_band\_min\_100< 0.03840937 1627 5.690720e+02 2.6370870

 2886) BOMDom\_solar\_exposure\_var\_90< 7.075611 784 1.849916e+02 2.3351280

 5772) SatDom\_LST\_day\_max\_70>=36.59 573 7.390758e+01 2.1545030

 11544) BOMDom\_max\_temperature\_mean\_240< 33.13 313 2.565935e+01 1.9510540 \*

 11545) BOMDom\_max\_temperature\_mean\_240>=33.13 260 1.969641e+01 2.3994230 \*

 5773) SatDom\_LST\_day\_max\_70< 36.59 211 4.162259e+01 2.8256400 \*

 2887) BOMDom\_solar\_exposure\_var\_90>=7.075611 843 2.461143e+02 2.9179120

 5774) SatDom\_Reflect\_b3\_var..70< 1.232009e-05 635 1.004244e+02 2.7488980

 11548) SatDom\_GPP\_20< 0.7169375 165 1.164720e+01 2.3870910 \*

 11549) SatDom\_GPP\_20>=0.7169375 470 5.959536e+01 2.8759150 \*

 5775) SatDom\_Reflect\_b3\_var..70>=1.232009e-05 208 7.217315e+01 3.4338940 \*

 361) SatDom\_LST\_night\_max\_10>=30.83 1430 1.076434e+03 2.9230070

 722) SatDom\_Reflect\_b2\_var\_190< 0.0002736447 978 3.616979e+02 2.6040080

 1444) SatDom\_Emis31\_var\_20< 1.790123e-06 749 2.059087e+02 2.4097330

 2888) SatDom\_GPP\_mean\_180>=0.01034312 205 3.058192e+01 1.8772200 \*

 2889) SatDom\_GPP\_mean\_180< 0.01034312 544 9.528851e+01 2.6104040

 5778) BOMDom\_rainfall\_var\_50< 22.37917 371 4.283213e+01 2.4371700 \*

 5779) BOMDom\_rainfall\_var\_50>=22.37917 173 1.744607e+01 2.9819080 \*

 1445) SatDom\_Emis31\_var\_20>=1.790123e-06 229 3.505783e+01 3.2394320 \*

 723) SatDom\_Reflect\_b2\_var\_190>=0.0002736447 452 3.998783e+02 3.6132300

 1446) SatDom\_Reflect\_b2\_max..80>=0.2848375 327 6.614199e+01 3.2587460 \*

 1447) SatDom\_Reflect\_b2\_max..80< 0.2848375 125 1.851533e+02 4.5405600 \*

 181) SatDom\_NIR\_mean\_110>=0.3337466 2899 1.571648e+03 2.9400590

 362) SatDom\_Reflect\_b3\_var\_60>=1.317713e-05 720 3.257958e+02 2.3283330

 724) SatDom\_Reflect\_b6\_var..40< 5.366458e-05 380 6.787550e+01 1.9585530

 1448) METADom\_Fert\_rotation\_minus\_2\_TWENTY\_EIGHT\_TO\_THIRTEEN< -1.513546e-17 120 1.506259e+01 1.5352500 \*

 1449) METADom\_Fert\_rotation\_minus\_2\_TWENTY\_EIGHT\_TO\_THIRTEEN>=-1.513546e-17 260 2.138660e+01 2.1539230 \*

 725) SatDom\_Reflect\_b6\_var..40>=5.366458e-05 340 1.478866e+02 2.7416180

 1450) SatDom\_Pot\_EvapoTrans\_mean..10>=18034.27 229 2.697982e+01 2.4522710 \*

 1451) SatDom\_Pot\_EvapoTrans\_mean..10< 18034.27 111 6.218097e+01 3.3385590 \*

 363) SatDom\_Reflect\_b3\_var\_60< 1.317713e-05 2179 8.873963e+02 3.1421890

 726) SatDom\_PsnNet\_mean\_160< 0.02201313 2033 7.118480e+02 3.0711210

 1452) SatDom\_Aero\_q\_250< 7.5 1832 5.699321e+02 2.9977570

 2904) SatDom\_Aero\_q..60>=4.5 209 8.863532e+01 2.4668420 \*

 2905) SatDom\_Aero\_q..60< 4.5 1623 4.147997e+02 3.0661240

 5810) SatDom\_EVI\_230>=75.92181 968 2.449664e+02 2.9360230

 11620) METADom\_Chem\_rotation\_minus\_2\_ATTACK>=-9.324139e-18 550 9.565570e+01 2.7600180 \*

 11621) METADom\_Chem\_rotation\_minus\_2\_ATTACK< -9.324139e-18 418 1.098550e+02 3.1676080 \*

 5811) SatDom\_EVI\_230< 75.92181 655 1.292340e+02 3.2583970

 11622) METADom\_Chem\_rotation\_minus\_2\_GLEAN< -4.97432e-17 120 1.284870e+01 2.8659170 \*

 11623) METADom\_Chem\_rotation\_minus\_2\_GLEAN>=-4.97432e-17 535 9.375428e+01 3.3464300 \*

 1453) SatDom\_Aero\_q\_250>=7.5 201 4.218179e+01 3.7398010 \*

 727) SatDom\_PsnNet\_mean\_160>=0.02201313 146 2.230374e+01 4.1317810 \*

 91) METADom\_METALAXYL\_M>=0.3071952 834 7.626606e+02 3.6332730

 182) SatDom\_EVI\_230< 65.92012 388 1.984253e+02 2.9209540

 364) METADom\_PROPICONAZOLE< 2157.036 242 5.668413e+01 2.5128510 \*

 365) METADom\_PROPICONAZOLE>=2157.036 146 3.463061e+01 3.5973970 \*

 183) SatDom\_EVI\_230>=65.92012 446 1.960953e+02 4.2529600

 366) SatDom\_Reflect\_b7\_max\_100< 0.138 298 7.276664e+01 3.9792620 \*

 367) SatDom\_Reflect\_b7\_max\_100>=0.138 148 5.605697e+01 4.8040540 \*

 23) SatDom\_MIR\_mean\_150< 0.1676194 3689 5.649135e+03 3.7028460

 46) SatDom\_GPP\_min\_160< 0.0376 3477 4.155498e+03 3.5531780

 92) SatDom\_Latent\_heat\_mean\_40< 2474114 3119 2.809112e+03 3.3817730

 184) SatDom\_LST\_night\_min\_210>=28.225 2275 1.711638e+03 3.1282150

 368) SatDom\_FPAR\_mean\_200< 0.1295 559 2.277190e+02 2.4203760

 736) METADom\_Fert\_rotation\_minus\_2\_EIGHTEEN\_TO\_TWENTY< 0.000676819 233 5.376524e+01 1.9741200 \*

 737) METADom\_Fert\_rotation\_minus\_2\_EIGHTEEN\_TO\_TWENTY>=0.000676819 326 9.438965e+01 2.7393250

 1474) METADom\_Chem\_rotation\_minus\_2\_SELECT>=0.03212549 138 3.105675e+01 2.4158700 \*

 1475) METADom\_Chem\_rotation\_minus\_2\_SELECT< 0.03212549 188 3.829672e+01 2.9767550 \*

 369) SatDom\_FPAR\_mean\_200>=0.1295 1716 1.112601e+03 3.3588000

 738) BOMDom\_min\_temperature\_var\_80>=12.05111 211 1.125691e+02 2.4549290 \*

 739) BOMDom\_min\_temperature\_var\_80< 12.05111 1505 8.034810e+02 3.4855220

 1478) BOMDom\_max\_temperature\_var\_170< 31.13561 1201 5.004054e+02 3.3403080

 2956) BOMDom\_solar\_exposure\_mean\_170< 25.81 1013 3.190308e+02 3.2129320

 5912) SatDom\_GPP\_max..40< 0.012825 729 1.808875e+02 3.0485050

 11824) BOMDom\_min\_temperature\_min\_180< 7.2 408 7.533276e+01 2.8697060 \*

 11825) BOMDom\_min\_temperature\_min\_180>=7.2 321 7.593284e+01 3.2757630 \*

 5913) SatDom\_GPP\_max..40>=0.012825 284 6.784170e+01 3.6350000 \*

 2957) BOMDom\_solar\_exposure\_mean\_170>=25.81 188 7.637899e+01 4.0266490 \*

 1479) BOMDom\_max\_temperature\_var\_170>=31.13561 304 1.776980e+02 4.0592110

 2958) SatDom\_EvapoTrans\_mean..20>=21912.86 117 4.229611e+01 3.5891450 \*

 2959) SatDom\_EvapoTrans\_mean..20< 21912.86 187 9.337434e+01 4.3533160 \*

 185) SatDom\_LST\_night\_min\_210< 28.225 844 5.569593e+02 4.0652370

 370) SatDom\_NIR\_var\_180< 3.084636e-05 262 1.342814e+02 3.3183590 \*

 371) SatDom\_NIR\_var\_180>=3.084636e-05 582 2.107343e+02 4.4014600

 742) SatDom\_Reflect\_b3\_max\_100>=0.02871875 464 1.278581e+02 4.2674140 \*

 743) SatDom\_Reflect\_b3\_max\_100< 0.02871875 118 4.175446e+01 4.9285590 \*

 93) SatDom\_Latent\_heat\_mean\_40>=2474114 358 4.563975e+02 5.0465080

 186) SatDom\_Reflect\_b3\_max\_70< 0.0351125 132 6.781208e+01 3.9746210 \*

 187) SatDom\_Reflect\_b3\_max\_70>=0.0351125 226 1.483447e+02 5.6725660 \*

 47) SatDom\_GPP\_min\_160>=0.0376 212 1.383323e+02 6.1575470 \*

 3) SatDom\_Latent\_heat\_250>=7.149511e+08 58511 1.236078e+05 3.5287410

 6) METADom\_Dicot\_TF>=0.5 17101 1.227262e+04 2.3097950

 12) METADom\_sub\_cropFaba.Bean< 0.5 15569 9.206321e+03 2.2342540

 24) BOMDom\_rainfall\_csum\_160< 231.65 1423 5.737222e+02 1.5278290

 48) SatDom\_Latent\_heat\_max\_30>=1915000 1041 3.233517e+02 1.3687030

 96) METADom\_ALPHA\_CYPERMETHRIN\_repeat\_1< 1.844547 792 1.519292e+02 1.2004550

 192) SatDom\_EVI\_var..80< 4.153499e-06 351 5.076187e+01 0.9388889 \*

 193) SatDom\_EVI\_var..80>=4.153499e-06 441 5.803978e+01 1.4086390 \*

 97) METADom\_ALPHA\_CYPERMETHRIN\_repeat\_1>=1.844547 249 7.769230e+01 1.9038550 \*

 49) SatDom\_Latent\_heat\_max\_30< 1915000 382 1.521796e+02 1.9614660

 98) SatDom\_Reflect\_b6\_max\_250>=0.404325 265 3.116888e+01 1.7333210 \*

 99) SatDom\_Reflect\_b6\_max\_250< 0.404325 117 7.597612e+01 2.4782050 \*

 25) BOMDom\_rainfall\_csum\_160>=231.65 14146 7.851035e+03 2.3053160

 50) SatDom\_LST\_day\_max\_170>=52.42 7798 4.371157e+03 2.1380660

 100) SatDom\_LST\_night\_max\_90< 29.92 5987 2.905211e+03 2.0299930

 200) SatDom\_Reflect\_b2\_min\_120< 0.407125 3676 1.449976e+03 1.8882920

 400) SatDom\_LST\_night\_mean\_60< 24.16655 2061 6.852891e+02 1.7177920

 800) SatDom\_LST\_night\_min\_190< 35.2 1887 5.467795e+02 1.6596660

 1600) SatDom\_NIR\_var..50>=9.242079e-07 1657 3.787093e+02 1.5783830

 3200) SatDom\_Pot\_EvapoTrans..40>=525549.3 139 1.839851e+01 1.0566190 \*

 3201) SatDom\_Pot\_EvapoTrans..40< 525549.3 1518 3.190047e+02 1.6261590

 6402) SatDom\_red\_band\_min..70>=0.1619375 203 2.493144e+01 1.2045810 \*

 6403) SatDom\_red\_band\_min..70< 0.1619375 1315 2.524249e+02 1.6912400

 12806) SatDom\_blue\_band\_var\_90>=1.031272e-06 499 7.855553e+01 1.5086770 \*

 12807) SatDom\_blue\_band\_var\_90< 1.031272e-06 816 1.470679e+02 1.8028800

 25614) SatDom\_Pot\_latent\_heat\_var\_240>=1.200603e+11 620 7.760538e+01 1.7117580 \*

 25615) SatDom\_Pot\_latent\_heat\_var\_240< 1.200603e+11 196 4.803015e+01 2.0911220 \*

 1601) SatDom\_NIR\_var..50< 9.242079e-07 230 7.825053e+01 2.2452610 \*

 801) SatDom\_LST\_night\_min\_190>=35.2 174 6.299261e+01 2.3481610 \*

 401) SatDom\_LST\_night\_mean\_60>=24.16655 1615 6.283151e+02 2.1058760

 802) SatDom\_blue\_band\_max\_30< 0.03264688 395 1.161566e+02 1.7087850

 1604) SatDom\_Reflect\_b6\_mean\_40>=0.1813331 291 6.287617e+01 1.5474230 \*

 1605) SatDom\_Reflect\_b6\_mean\_40< 0.1813331 104 2.450249e+01 2.1602880 \*

 803) SatDom\_blue\_band\_max\_30>=0.03264688 1220 4.297085e+02 2.2344430

 1606) SatDom\_LST\_night\_max\_200< 33.00667 108 2.377722e+01 1.4525000 \*

 1607) SatDom\_LST\_night\_max\_200>=33.00667 1112 3.334829e+02 2.3103870

 3214) SatDom\_Reflect\_b2\_max\_90< 0.368325 559 1.252279e+02 2.0647580

 6428) SatDom\_EVI\_min\_20>=0.1149563 386 5.424532e+01 1.8878500 \*

 6429) SatDom\_EVI\_min\_20< 0.1149563 173 3.194785e+01 2.4594800 \*

 3215) SatDom\_Reflect\_b2\_max\_90>=0.368325 553 1.404365e+02 2.5586800

 6430) SatDom\_Reflect\_b7\_min\_70< 0.072325 128 2.728029e+01 2.0690630 \*

 6431) SatDom\_Reflect\_b7\_min\_70>=0.072325 425 7.322987e+01 2.7061410 \*

 201) SatDom\_Reflect\_b2\_min\_120>=0.407125 2311 1.264014e+03 2.2553920

 402) SatDom\_GPP\_mean\_140< 0.058425 2087 9.814619e+02 2.1630140

 804) BOMDom\_min\_temperature\_csum\_.70< 282.725 690 2.580662e+02 1.7867100

 1608) SatDom\_Reflect\_b6\_mean..70>=0.3926994 250 7.880164e+01 1.3908000 \*

 1609) SatDom\_Reflect\_b6\_mean..70< 0.3926994 440 1.178135e+02 2.0116590 \*

 805) BOMDom\_min\_temperature\_csum\_.70>=282.725 1397 5.774295e+02 2.3488760

 1610) SatDom\_Pot\_latent\_heat\_mean\_120< 1.223345e+07 1257 3.729483e+02 2.2477880

 3220) SatDom\_FPAR\_10< 19.4775 627 1.655030e+02 2.0008290

 6440) METADom\_Chem\_rotation\_minus\_2\_VERDICT>=-1.908196e-17 458 8.356777e+01 1.8354150

 12880) BOMDom\_solar\_exposure\_var\_60< 4.117389 245 2.898762e+01 1.6126940 \*

 12881) BOMDom\_solar\_exposure\_var\_60>=4.117389 213 2.844806e+01 2.0915960 \*

 6441) METADom\_Chem\_rotation\_minus\_2\_VERDICT< -1.908196e-17 169 3.544157e+01 2.4491120 \*

 3221) SatDom\_FPAR\_10>=19.4775 630 1.311475e+02 2.4935710

 6442) SatDom\_LAI\_min\_130>=1.68125 263 5.215192e+01 2.2177950 \*

 6443) SatDom\_LAI\_min\_130< 1.68125 367 4.465987e+01 2.6911990 \*

 1611) SatDom\_Pot\_latent\_heat\_mean\_120>=1.223345e+07 140 7.630698e+01 3.2565000 \*

 403) SatDom\_GPP\_mean\_140>=0.058425 224 9.880954e+01 3.1160710 \*

 101) SatDom\_LST\_night\_max\_90>=29.92 1811 1.164849e+03 2.4953450

 202) SatDom\_Reflect\_b2\_140< 69.26393 1202 6.470320e+02 2.2876870

 404) SatDom\_Reflect\_b5\_mean..50>=0.2589431 938 3.615876e+02 2.1315990

 808) SatDom\_Reflect\_b2\_mean\_20>=0.166735 745 2.255874e+02 1.9814770

 1616) SatDom\_PsnNet\_var..70< 5.391441e-07 416 1.201748e+02 1.7757450

 3232) SatDom\_Reflect\_b7\_var\_30< 0.0001905638 265 5.023244e+01 1.5820000 \*

 3233) SatDom\_Reflect\_b7\_var\_30>=0.0001905638 151 4.253769e+01 2.1157620 \*

 1617) SatDom\_PsnNet\_var..70>=5.391441e-07 329 6.554185e+01 2.2416110 \*

 809) SatDom\_Reflect\_b2\_mean\_20< 0.166735 193 5.439947e+01 2.7110880 \*

 405) SatDom\_Reflect\_b5\_mean..50< 0.2589431 264 1.813942e+02 2.8422730 \*

 203) SatDom\_Reflect\_b2\_140>=69.26393 609 3.636812e+02 2.9052050

 406) SatDom\_blue\_band\_min\_60< 0.0214625 265 1.313722e+02 2.3977740 \*

 407) SatDom\_blue\_band\_min\_60>=0.0214625 344 1.115110e+02 3.2961050

 814) SatDom\_GPP\_max..60< 0.01275 205 4.729458e+01 3.0875610 \*

 815) SatDom\_GPP\_max..60>=0.01275 139 4.215203e+01 3.6036690 \*

 51) SatDom\_LST\_day\_max\_170< 52.42 6348 2.993794e+03 2.5107690

 102) SatDom\_Reflect\_b6\_max\_40>=0.231375 3941 1.658618e+03 2.3586300

 204) SatDom\_LST\_night\_max\_220< 39.95 3659 1.376718e+03 2.3047470

 408) SatDom\_Reflect\_b1\_var\_210>=0.0008046924 429 1.402534e+02 1.8164570

 816) SatDom\_Reflect\_b2\_var..80>=2.719759e-05 182 1.538710e+01 1.3585160 \*

 817) SatDom\_Reflect\_b2\_var..80< 2.719759e-05 247 5.857607e+01 2.1538870 \*

 409) SatDom\_Reflect\_b1\_var\_210< 0.0008046924 3230 1.120594e+03 2.3696010

 818) SatDom\_NDVI\_max\_110< 0.8754 3126 9.723355e+02 2.3373610

 1636) SatDom\_MIR\_min\_250>=0.2876563 655 1.597564e+02 2.0120920

 3272) SatDom\_MIR\_var\_210< 4.827293e-05 353 3.456826e+01 1.7466570 \*

 3273) SatDom\_MIR\_var\_210>=4.827293e-05 302 7.124663e+01 2.3223510 \*

 1637) SatDom\_MIR\_min\_250< 0.2876563 2471 7.249106e+02 2.4235820

 3274) MANDom\_Trial\_operatorsDAWA.Mount.Barker>=-4.255494e-19 2335 5.960014e+02 2.3811180

 6548) SatDom\_Emis32\_mean\_20< 0.98625 618 1.289150e+02 2.0751620

 13096) BOMDom\_max\_temperature\_var\_.40>=8.941014 249 3.994870e+01 1.7973090 \*

 13097) BOMDom\_max\_temperature\_var\_.40< 8.941014 369 5.677120e+01 2.2626560 \*

 6549) SatDom\_Emis32\_mean\_20>=0.98625 1717 3.884139e+02 2.4912410

 13098) SatDom\_Reflect\_b7\_var\_150< 1.163851e-05 582 1.194862e+02 2.2388830

 26196) SatDom\_LST\_day\_min\_80>=29.51 254 3.784047e+01 1.9587010 \*

 26197) SatDom\_LST\_day\_min\_80< 29.51 328 4.626516e+01 2.4558540 \*

 13099) SatDom\_Reflect\_b7\_var\_150>=1.163851e-05 1135 2.128578e+02 2.6206430

 26198) SatDom\_Latent\_heat\_mean\_110>=5543267 141 2.360258e+01 2.1960280 \*

 26199) SatDom\_Latent\_heat\_mean\_110< 5543267 994 1.602271e+02 2.6808750

 52398) SatDom\_GPP\_min..50< 0.01756875 795 9.857699e+01 2.6055970 \*

 52399) SatDom\_GPP\_min..50>=0.01756875 199 3.914749e+01 2.9816080 \*

 3275) MANDom\_Trial\_operatorsDAWA.Mount.Barker< -4.255494e-19 136 5.240985e+01 3.1526470 \*

 819) SatDom\_NDVI\_max\_110>=0.8754 104 4.734701e+01 3.3386540 \*

 205) SatDom\_LST\_night\_max\_220>=39.95 282 1.334369e+02 3.0577660 \*

 103) SatDom\_Reflect\_b6\_max\_40< 0.231375 2407 1.094602e+03 2.7598670

 206) BOMDom\_min\_temperature\_max\_.20>=19 172 3.954817e+01 1.8726740 \*

 207) BOMDom\_min\_temperature\_max\_.20< 19 2235 9.092524e+02 2.8281430

 414) SatDom\_Reflect\_b1\_max\_160>=0.0479125 2005 7.221871e+02 2.7535510

 828) BOMDom\_min\_temperature\_mean\_30< 7.42 1375 4.712788e+02 2.5996220

 1656) SatDom\_EVI\_mean\_200< 0.1557722 150 5.605694e+01 1.9452670 \*

 1657) SatDom\_EVI\_mean\_200>=0.1557722 1225 3.431302e+02 2.6797470

 3314) BOMDom\_rainfall\_max\_.30>=2.666667 631 1.457780e+02 2.4826150 \*

 3315) BOMDom\_rainfall\_max\_.30< 2.666667 594 1.467822e+02 2.8891580 \*

 829) BOMDom\_min\_temperature\_mean\_30>=7.42 630 1.472225e+02 3.0895080

 1658) SatDom\_NIR..60>=6.703837 527 8.298231e+01 2.9842880 \*

 1659) SatDom\_NIR..60< 6.703837 103 2.855353e+01 3.6278640 \*

 415) SatDom\_Reflect\_b1\_max\_160< 0.0479125 230 7.866030e+01 3.4783910 \*

 13) METADom\_sub\_cropFaba.Bean>=0.5 1532 2.074569e+03 3.0774870

 26) SatDom\_NIR\_mean\_170< 0.3475594 1015 1.157413e+03 2.7251820

 52) BOMDom\_rainfall\_csum\_160< 296 233 1.515554e+02 1.9136050 \*

 53) BOMDom\_rainfall\_csum\_160>=296 782 8.066644e+02 2.9669950

 106) BOMDom\_max\_temperature\_min\_.20>=17.95 522 4.127768e+02 2.6838890

 212) SatDom\_Reflect\_b5\_var\_40>=5.376569e-05 291 1.974914e+02 2.3462540 \*

 213) SatDom\_Reflect\_b5\_var\_40< 5.376569e-05 231 1.403227e+02 3.1092210 \*

 107) BOMDom\_max\_temperature\_min\_.20< 17.95 260 2.680525e+02 3.5353850 \*

 27) SatDom\_NIR\_mean\_170>=0.3475594 517 5.438448e+02 3.7691490

 54) BOMDom\_solar\_exposure\_max\_240>=32.4 238 1.621752e+02 3.2372270 \*

 55) BOMDom\_solar\_exposure\_max\_240< 32.4 279 2.568855e+02 4.2229030 \*

 7) METADom\_Dicot\_TF< 0.5 41410 7.543284e+04 4.0321270

 14) SatDom\_EVI\_mean\_160< 0.5025781 36299 4.871755e+04 3.8170890

 28) SatDom\_Reflect\_b7\_min\_180>=0.19295 14225 1.478815e+04 3.3494140

 56) SatDom\_Reflect\_b7\_mean\_150>=0.1605481 7964 6.998821e+03 3.0768370

 112) SatDom\_Reflect\_b2\_mean..30>=0.2057325 5139 3.812163e+03 2.8444110

 224) SatDom\_red\_band\_var..20>=9.28106e-06 2909 1.640923e+03 2.5768680

 448) SatDom\_Reflect\_b3\_var\_80>=4.125e-07 2505 1.127948e+03 2.4391300

 896) SatDom\_Subzero\_nights\_mean\_70< 0.157 2344 8.582171e+02 2.3594160

 1792) SatDom\_Reflect\_b7\_var\_100>=4.004224e-06 1962 6.462197e+02 2.2456370

 3584) BOMDom\_max\_temperature\_max\_230>=42.75 218 4.264786e+01 1.5910550 \*

 3585) BOMDom\_max\_temperature\_max\_230< 42.75 1744 4.984876e+02 2.3274600

 7170) METADom\_Chem\_rotation\_minus\_1\_ESTERCIDE>=-1.453915e-17 1041 2.596425e+02 2.1612970

 14340) SatDom\_Reflect\_b6\_mean..80< 0.4185512 604 1.237761e+02 1.9565400 \*

 14341) SatDom\_Reflect\_b6\_mean..80>=0.4185512 437 7.554331e+01 2.4443020 \*

 7171) METADom\_Chem\_rotation\_minus\_1\_ESTERCIDE< -1.453915e-17 703 1.675416e+02 2.5735140

 14342) SatDom\_LST\_day\_var\_60>=1.743537 589 8.451990e+01 2.4699830 \*

 14343) SatDom\_LST\_day\_var\_60< 1.743537 114 4.409012e+01 3.1084210 \*

 1793) SatDom\_Reflect\_b7\_var\_100< 4.004224e-06 382 5.614520e+01 2.9437960 \*

 897) SatDom\_Subzero\_nights\_mean\_70>=0.157 161 3.798508e+01 3.5996890 \*

 449) SatDom\_Reflect\_b3\_var\_80< 4.125e-07 404 1.707746e+02 3.4309160

 898) METADom\_Chem\_rotation\_minus\_2\_TRIFLURALIN< 0.05586137 170 2.200351e+01 2.9635880 \*

 899) METADom\_Chem\_rotation\_minus\_2\_TRIFLURALIN>=0.05586137 234 8.467116e+01 3.7704270 \*

 225) SatDom\_red\_band\_var..20< 9.28106e-06 2230 1.691391e+03 3.1934170

 450) SatDom\_LST\_day\_mean\_190>=55.839 1845 1.118194e+03 3.0007590

 900) BOMDom\_solar\_exposure\_min\_160< 18.6 1518 6.834229e+02 2.8119370

 1800) SatDom\_LST\_day\_var\_30>=0.7775974 1388 5.014579e+02 2.7155260

 3600) SatDom\_Pot\_latent\_heat\_mean\_120< 1.00225e+07 252 3.674392e+01 1.9712300 \*

 3601) SatDom\_Pot\_latent\_heat\_mean\_120>=1.00225e+07 1136 2.941439e+02 2.8806340

 7202) SatDom\_GPP\_var..70< 1.175951e-06 788 1.528911e+02 2.7228550

 14404) SatDom\_LST\_night\_var\_70< 1.662678 147 1.977246e+01 2.2646940 \*

 14405) SatDom\_LST\_night\_var\_70>=1.662678 641 9.518514e+01 2.8279250 \*

 7203) SatDom\_GPP\_var..70>=1.175951e-06 348 7.721737e+01 3.2379020

 14406) SatDom\_GPP\_var\_230< 9.959427e-07 221 3.314351e+01 3.0447510 \*

 14407) SatDom\_GPP\_var\_230>=9.959427e-07 127 2.148145e+01 3.5740160 \*

 1801) SatDom\_LST\_day\_var\_30< 0.7775974 130 3.131488e+01 3.8413080 \*

 901) BOMDom\_solar\_exposure\_min\_160>=18.6 327 1.294014e+02 3.8773090

 1802) METADom\_Chem\_rotation\_minus\_1\_STARANE< 9.237403e-18 169 1.729161e+01 3.4074560 \*

 1803) METADom\_Chem\_rotation\_minus\_1\_STARANE>=9.237403e-18 158 3.489480e+01 4.3798730 \*

 451) SatDom\_LST\_day\_mean\_190< 55.839 385 1.765391e+02 4.1166750

 902) METADom\_Chem\_rotation\_minus\_2\_CLETHODIM< -3.371869e-18 200 4.773379e+01 3.7012500 \*

 903) METADom\_Chem\_rotation\_minus\_2\_CLETHODIM>=-3.371869e-18 185 5.697551e+01 4.5657840 \*

 113) SatDom\_Reflect\_b2\_mean..30< 0.2057325 2825 2.404023e+03 3.4996460

 226) SatDom\_LST\_day\_max\_220>=66.63 1767 1.140552e+03 3.1595300

 452) SatDom\_Emis31\_var..40< 8.45679e-07 628 3.872279e+02 2.6277710

 904) SatDom\_PsnNet\_var\_100< 3.405435e-06 295 7.698652e+01 2.0492200 \*

 905) SatDom\_PsnNet\_var\_100>=3.405435e-06 333 1.240242e+02 3.1403000

 1810) SatDom\_MIR\_mean\_180< 0.2873625 232 4.370297e+01 2.8740090 \*

 1811) SatDom\_MIR\_mean\_180>=0.2873625 101 2.608040e+01 3.7519800 \*

 453) SatDom\_Emis31\_var..40>=8.45679e-07 1139 4.778358e+02 3.4527220

 906) SatDom\_Latent\_heat..10>=6.36615e+07 1007 2.758505e+02 3.3301890

 1812) BOMDom\_min\_temperature\_var\_20< 20.17161 839 1.873086e+02 3.2261860

 3624) SatDom\_NIR\_var\_30>=5.338747e-05 491 1.061917e+02 3.0663750 \*

 3625) SatDom\_NIR\_var\_30< 5.338747e-05 348 5.088403e+01 3.4516670 \*

 1813) BOMDom\_min\_temperature\_var\_20>=20.17161 168 3.414527e+01 3.8495830 \*

 907) SatDom\_Latent\_heat..10< 6.36615e+07 132 7.152288e+01 4.3875000 \*

 227) SatDom\_LST\_day\_max\_220< 66.63 1058 7.176846e+02 4.0676840

 454) SatDom\_blue\_band\_var\_90>=1.060352e-06 486 2.615106e+02 3.6213370

 908) BOMDom\_rainfall\_mean\_190< 0.5 132 3.369917e+01 3.0115910 \*

 909) BOMDom\_rainfall\_mean\_190>=0.5 354 1.604354e+02 3.8487010

 1818) METADom\_Chem\_rotation\_minus\_2\_ROUNDUP\_READY< -1.31839e-17 162 3.738091e+01 3.5025930 \*

 1819) METADom\_Chem\_rotation\_minus\_2\_ROUNDUP\_READY>=-1.31839e-17 192 8.727450e+01 4.1407290 \*

 455) SatDom\_blue\_band\_var\_90< 1.060352e-06 572 2.770842e+02 4.4469230

 910) SatDom\_GPP\_min\_140< 0.0324875 328 7.835912e+01 4.1395120 \*

 911) SatDom\_GPP\_min\_140>=0.0324875 244 1.260612e+02 4.8601640 \*

 57) SatDom\_Reflect\_b7\_mean\_150< 0.1605481 6261 6.444961e+03 3.6961320

 114) BOMDom\_max\_temperature\_var\_190< 11.51094 1678 1.443233e+03 3.1697140

 228) BOMDom\_min\_temperature\_max\_.50< 18.85 852 4.965599e+02 2.6569250

 456) SatDom\_blue\_band\_70>=7.492544 463 1.396844e+02 2.2024620

 912) SatDom\_LAI\_min\_40< 0.5625 347 7.990454e+01 2.0356200 \*

 913) SatDom\_LAI\_min\_40>=0.5625 116 2.122612e+01 2.7015520 \*

 457) SatDom\_blue\_band\_70< 7.492544 389 1.474318e+02 3.1978410

 914) BOMDom\_rainfall\_max\_230< 15.8 252 9.986785e+01 2.9990080 \*

 915) BOMDom\_rainfall\_max\_230>=15.8 137 1.927575e+01 3.5635770 \*

 229) BOMDom\_min\_temperature\_max\_.50>=18.85 826 4.915503e+02 3.6986440

 458) SatDom\_EvapoTrans\_min\_240< 2.475 451 1.509466e+02 3.2581370

 916) SatDom\_Reflect\_b3\_mean\_80>=0.02386 132 2.487270e+01 2.7282580 \*

 917) SatDom\_Reflect\_b3\_mean\_80< 0.02386 319 7.367594e+01 3.4773980 \*

 459) SatDom\_EvapoTrans\_min\_240>=2.475 375 1.478378e+02 4.2284270

 918) SatDom\_Latent\_heat\_max\_170< 1433125 116 3.392189e+01 3.6447410 \*

 919) SatDom\_Latent\_heat\_max\_170>=1433125 259 5.669599e+01 4.4898460 \*

 115) BOMDom\_max\_temperature\_var\_190>=11.51094 4583 4.366474e+03 3.8888720

 230) BOMDom\_solar\_exposure\_var\_60< 2.81 996 7.047091e+02 3.1902810

 460) SatDom\_GPP\_var\_210>=3.42996e-06 312 1.465580e+02 2.4464100

 920) SatDom\_red\_band\_max\_110>=0.056475 106 2.907728e+01 1.9480190 \*

 921) SatDom\_red\_band\_max\_110< 0.056475 206 7.760261e+01 2.7028640 \*

 461) SatDom\_GPP\_var\_210< 3.42996e-06 684 3.067583e+02 3.5295910

 922) SatDom\_PsnNet\_max\_110< 0.0288 389 1.050261e+02 3.1876090

 1844) SatDom\_LST\_night\_var\_110< 3.262754 143 2.393578e+01 2.8538460 \*

 1845) SatDom\_LST\_night\_var\_110>=3.262754 246 5.590035e+01 3.3816260 \*

 923) SatDom\_PsnNet\_max\_110>=0.0288 295 9.624771e+01 3.9805420 \*

 231) BOMDom\_solar\_exposure\_var\_60>=2.81 3587 3.040719e+03 4.0828490

 462) SatDom\_Emis32\_mean\_90>=0.9867167 957 7.261366e+02 3.5539290

 924) BOMDom\_solar\_exposure\_var\_190< 52.32539 442 2.525538e+02 2.9947740

 1848) METADom\_Chem\_rotation\_minus\_2\_HAMMER>=0.007344062 100 2.767754e+01 2.2881000 \*

 1849) METADom\_Chem\_rotation\_minus\_2\_HAMMER< 0.007344062 342 1.603355e+02 3.2014040

 3698) BOMDom\_Latitude>=-34.5404 231 8.032086e+01 3.0196100 \*

 3699) BOMDom\_Latitude< -34.5404 111 5.649289e+01 3.5797300 \*

 925) BOMDom\_solar\_exposure\_var\_190>=52.32539 515 2.167848e+02 4.0338250

 1850) SatDom\_NDVI\_max\_150< 0.6264938 341 6.169114e+01 3.7036950 \*

 1851) SatDom\_NDVI\_max\_150>=0.6264938 174 4.509609e+01 4.6808050 \*

 463) SatDom\_Emis32\_mean\_90< 0.9867167 2630 1.949436e+03 4.2753120

 926) BOMDom\_rainfall\_csum\_200< 429.9 1509 9.828615e+02 3.9842680

 1852) METADom\_Fert\_rotation\_minus\_2\_AP>=0.0005970149 487 2.233977e+02 3.4794050

 3704) SatDom\_Reflect\_b2\_var\_200>=0.0002735344 200 6.161640e+01 3.0325500 \*

 3705) SatDom\_Reflect\_b2\_var\_200< 0.0002735344 287 9.401572e+01 3.7908010 \*

 1853) METADom\_Fert\_rotation\_minus\_2\_AP< 0.0005970149 1022 5.761839e+02 4.2248430

 3706) METADom\_Chem\_rotation\_minus\_1\_WETTER< -1.3726e-17 314 9.483771e+01 3.7425160 \*

 3707) METADom\_Chem\_rotation\_minus\_1\_WETTER>=-1.3726e-17 708 3.758999e+02 4.4387570

 7414) BOMDom\_rainfall\_mean\_0>=2.41 278 8.325697e+01 3.9983810 \*

 7415) BOMDom\_rainfall\_mean\_0< 2.41 430 2.038749e+02 4.7234650

 14830) METADom\_sub\_cropWheat>=0.5 246 5.462565e+01 4.5043500 \*

 14831) METADom\_sub\_cropWheat< 0.5 184 1.216478e+02 5.0164130 \*

 927) BOMDom\_rainfall\_csum\_200>=429.9 1121 6.666877e+02 4.6670920

 1854) SatDom\_NIR\_var\_100>=1.486808e-05 808 4.157741e+02 4.4390220

 3708) SatDom\_red\_band\_var\_120>=3.224184e-06 611 1.757875e+02 4.2611620

 7416) SatDom\_Reflect\_b2\_min\_60>=0.279275 235 6.170767e+01 3.9409790 \*

 7417) SatDom\_Reflect\_b2\_min\_60< 0.279275 376 7.493099e+01 4.4612770 \*

 3709) SatDom\_red\_band\_var\_120< 3.224184e-06 197 1.607102e+02 4.9906600 \*

 1855) SatDom\_NIR\_var\_100< 1.486808e-05 313 1.003890e+02 5.2558470

 3710) BOMDom\_Longitude< 148.6988 187 4.606484e+01 5.0018720 \*

 3711) BOMDom\_Longitude>=148.6988 126 2.436033e+01 5.6327780 \*

 29) SatDom\_Reflect\_b7\_min\_180< 0.19295 22074 2.881311e+04 4.1184710

 58) SatDom\_GPP\_max\_210< 0.0132875 7494 6.671861e+03 3.7493270

 116) BOMDom\_min\_temperature\_var\_180< 16.81367 5907 4.973321e+03 3.5974010

 232) METADom\_Chem\_rotation\_minus\_1\_DUAL\_GOLD< 0.1059912 5778 4.260938e+03 3.5531010

 464) SatDom\_Reflect\_b7\_min\_230>=0.28805 805 4.286842e+02 2.9113910

 928) SatDom\_Reflect\_b6\_mean..40< 0.3766469 329 7.896976e+01 2.3011550

 1856) BOMDom\_solar\_exposure\_var\_170< 6.368056 138 3.823677e+01 1.9819570 \*

 1857) BOMDom\_solar\_exposure\_var\_170>=6.368056 191 1.651359e+01 2.5317800 \*

 929) SatDom\_Reflect\_b6\_mean..40>=0.3766469 476 1.425187e+02 3.3331720

 1858) SatDom\_EVI\_mean\_210>=0.1233206 332 4.902589e+01 3.1352110 \*

 1859) SatDom\_EVI\_mean\_210< 0.1233206 144 5.048538e+01 3.7895830 \*

 465) SatDom\_Reflect\_b7\_min\_230< 0.28805 4973 3.447101e+03 3.6569780

 930) SatDom\_Emis31\_var\_160< 5.5e-07 1425 7.766209e+02 3.2653470

 1860) SatDom\_EVI\_var\_240< 2.596029e-08 273 1.130076e+02 2.6021250 \*

 1861) SatDom\_EVI\_var\_240>=2.596029e-08 1152 5.150731e+02 3.4225170

 3722) SatDom\_Pot\_EvapoTrans\_var..10>=6.680417 780 2.366714e+02 3.2112310

 7444) SatDom\_Emis32\_var\_170< 7.95679e-07 548 1.027362e+02 3.0196530 \*

 7445) SatDom\_Emis32\_var\_170>=7.95679e-07 232 6.631504e+01 3.6637500 \*

 3723) SatDom\_Pot\_EvapoTrans\_var..10< 6.680417 372 1.705696e+02 3.8655380

 7446) BOMDom\_rainfall\_csum\_100>=245.4 263 1.035043e+02 3.6823190 \*

 7447) BOMDom\_rainfall\_csum\_100< 245.4 109 3.693458e+01 4.3076150 \*

 931) SatDom\_Emis31\_var\_160>=5.5e-07 3548 2.364142e+03 3.8142700

 1862) SatDom\_Pot\_EvapoTrans\_var\_150< 0.1637708 257 8.117434e+01 2.6204670 \*

 1863) SatDom\_Pot\_EvapoTrans\_var\_150>=0.1637708 3291 1.888097e+03 3.9074960

 3726) BOMDom\_solar\_exposure\_max\_160< 29.45 2781 1.478534e+03 3.7958430

 7452) SatDom\_red\_band\_var\_50< 2.637777e-05 2493 1.156688e+03 3.6979220

 14904) BOMDom\_rainfall\_csum\_140< 217.8 201 4.483851e+01 2.8075620 \*

 14905) BOMDom\_rainfall\_csum\_140>=217.8 2292 9.385354e+02 3.7760030

 29810) SatDom\_Reflect\_b3\_min\_210>=0.0536125 1974 7.074673e+02 3.6891440

 59620) SatDom\_blue\_band\_var..70>=5.983227e-06 429 1.017394e+02 3.3263170

 119240) METADom\_sub\_cropWheat>=0.5 305 4.777629e+01 3.1814100 \*

 119241) METADom\_sub\_cropWheat< 0.5 124 3.180587e+01 3.6827420 \*

 59621) SatDom\_blue\_band\_var..70< 5.983227e-06 1545 5.335715e+02 3.7898900

 119242) SatDom\_Pot\_latent\_heat\_mean..40< 1.041169e+07 519 1.411917e+02 3.5156650 \*

 119243) SatDom\_Pot\_latent\_heat\_mean..40>=1.041169e+07 1026 3.336087e+02 3.9286060

 238486) SatDom\_PsnNet\_mean\_140< 0.03758875 915 2.301104e+02 3.8657490 \*

 238487) SatDom\_PsnNet\_mean\_140>=0.03758875 111 7.008183e+01 4.4467570 \*

 29811) SatDom\_Reflect\_b3\_min\_210< 0.0536125 318 1.237259e+02 4.3151890

 59622) METADom\_Fert\_rotation\_minus\_1\_UREA>=0.1496446 205 4.554372e+01 4.1148780 \*

 59623) METADom\_Fert\_rotation\_minus\_1\_UREA< 0.1496446 113 5.503437e+01 4.6785840 \*

 7453) SatDom\_red\_band\_var\_50>=2.637777e-05 288 9.102073e+01 4.6434720 \*

 3727) BOMDom\_solar\_exposure\_max\_160>=29.45 510 1.858458e+02 4.5163330

 7454) SatDom\_GPP\_var\_180< 5.692786e-07 270 9.741914e+01 4.2475930 \*

 7455) SatDom\_GPP\_var\_180>=5.692786e-07 240 4.698957e+01 4.8186670 \*

 233) METADom\_Chem\_rotation\_minus\_1\_DUAL\_GOLD>=0.1059912 129 1.931504e+02 5.5816280 \*

 117) BOMDom\_min\_temperature\_var\_180>=16.81367 1587 1.054714e+03 4.3148140

 234) SatDom\_LST\_night\_var\_60>=2.758261 839 5.153724e+02 3.9287130

 468) SatDom\_GPP\_var\_150>=2.370768e-06 675 3.089187e+02 3.7171560

 936) SatDom\_NIR\_150< 64.03331 131 2.653922e+01 2.9380920 \*

 937) SatDom\_NIR\_150>=64.03331 544 1.837238e+02 3.9047610

 1874) METADom\_Chem\_rotation\_minus\_2\_HAMMER< 0.007344062 296 7.865641e+01 3.6488510 \*

 1875) METADom\_Chem\_rotation\_minus\_2\_HAMMER>=0.007344062 248 6.254549e+01 4.2102020 \*

 469) SatDom\_GPP\_var\_150< 2.370768e-06 164 5.190065e+01 4.7994510 \*

 235) SatDom\_LST\_night\_var\_60< 2.758261 748 2.739791e+02 4.7478880

 470) METADom\_Chem\_rotation\_minus\_2\_AMINE>=0.05643867 141 3.057672e+01 4.0851060 \*

 471) METADom\_Chem\_rotation\_minus\_2\_AMINE< 0.05643867 607 1.670763e+02 4.9018450

 942) SatDom\_NDVI\_max\_140< 0.7109313 158 1.975585e+01 4.5205700 \*

 943) SatDom\_NDVI\_max\_140>=0.7109313 449 1.162694e+02 5.0360130 \*

 59) SatDom\_GPP\_max\_210>=0.0132875 14580 2.059518e+04 4.3082070

 118) METADom\_TEBUCONAZOLE< 36.75 10666 1.298748e+04 4.1040560

 236) SatDom\_PsnNet\_max\_160< 0.0406375 8198 8.911115e+03 3.9520870

 472) SatDom\_FPAR\_mean\_40>=0.238625 6929 7.063697e+03 3.8271710

 944) SatDom\_Reflect\_b4\_var..70>=2.114366e-05 2780 2.709783e+03 3.4748020

 1888) BOMDom\_rainfall\_mean\_.50< 0.74 1303 8.721282e+02 3.0538300

 3776) SatDom\_EVI\_var..60>=0.0001451431 116 2.170767e+01 1.6823280 \*

 3777) SatDom\_EVI\_var..60< 0.0001451431 1187 6.108990e+02 3.1878600

 7554) SatDom\_Reflect\_b2\_max\_220< 0.3383 901 3.644380e+02 2.9767480

 15108) SatDom\_Reflect\_b7\_var\_90< 1.615244e-05 223 7.507214e+01 2.4685650 \*

 15109) SatDom\_Reflect\_b7\_var\_90>=1.615244e-05 678 2.128343e+02 3.1438940

 30218) SatDom\_Reflect\_b7\_min\_240>=0.2240937 336 8.739000e+01 2.8832740 \*

 30219) SatDom\_Reflect\_b7\_min\_240< 0.2240937 342 8.020060e+01 3.3999420 \*

 7555) SatDom\_Reflect\_b2\_max\_220>=0.3383 286 7.979933e+01 3.8529370 \*

 1889) BOMDom\_rainfall\_mean\_.50>=0.74 1477 1.403028e+03 3.8461810

 3778) SatDom\_EvapoTrans\_max\_170>=21.95625 626 3.959926e+02 3.1552880

 7556) SatDom\_Latent\_heat\_mean..60< 876077.6 245 7.726848e+01 2.4884080 \*

 7557) SatDom\_Latent\_heat\_mean..60>=876077.6 381 1.397006e+02 3.5841210

 15114) SatDom\_Reflect\_b4\_min\_30< 0.07341875 262 6.182933e+01 3.3617180 \*

 15115) SatDom\_Reflect\_b4\_min\_30>=0.07341875 119 3.637960e+01 4.0737820 \*

 3779) SatDom\_EvapoTrans\_max\_170< 21.95625 851 4.884172e+02 4.3544070

 7558) SatDom\_NIR\_min\_60< 0.3000281 648 3.073136e+02 4.1672070

 15116) METADom\_Chem\_rotation\_minus\_1\_MAP< 0.002812722 504 2.037318e+02 3.9934520

 30232) SatDom\_Latent\_heat\_min\_130< 3690000 123 6.779780e+01 3.4498370 \*

 30233) SatDom\_Latent\_heat\_min\_130>=3690000 381 8.785078e+01 4.1689500 \*

 15117) METADom\_Chem\_rotation\_minus\_1\_MAP>=0.002812722 144 3.510958e+01 4.7753470 \*

 7559) SatDom\_NIR\_min\_60>=0.3000281 203 8.590741e+01 4.9519700 \*

 945) SatDom\_Reflect\_b4\_var..70< 2.114366e-05 4149 3.777456e+03 4.0632730

 1890) METADom\_Chem\_rotation\_minus\_2\_ROUNDUP\_MAX< 0.0004147799 1688 1.232576e+03 3.6916350

 3780) SatDom\_Reflect\_b6\_var..80>=3.971897e-06 1382 7.727313e+02 3.4986110

 7560) BOMDom\_max\_temperature\_mean\_.40>=23.17 886 4.240775e+02 3.2488710

 15120) SatDom\_NDVI\_var\_110>=1.30634e-05 782 2.458484e+02 3.1470590

 30240) SatDom\_MIR\_mean\_250< 0.2504812 428 1.519453e+02 2.9522660 \*

 30241) SatDom\_MIR\_mean\_250>=0.2504812 354 5.802816e+01 3.3825710 \*

 15121) SatDom\_NDVI\_var\_110< 1.30634e-05 104 1.091718e+02 4.0144230 \*

 7561) BOMDom\_max\_temperature\_mean\_.40< 23.17 496 1.946846e+02 3.9447180

 15122) SatDom\_red\_band\_var..10< 1.445057e-05 337 1.025681e+02 3.7155490 \*

 15123) SatDom\_red\_band\_var..10>=1.445057e-05 159 3.690547e+01 4.4304400 \*

 3781) SatDom\_Reflect\_b6\_var..80< 3.971897e-06 306 1.758027e+02 4.5633990

 7562) METADom\_Chem\_rotation\_minus\_3\_UNKNOWN>=0.5 130 4.935794e+01 4.1379230 \*

 7563) METADom\_Chem\_rotation\_minus\_3\_UNKNOWN< 0.5 176 8.552794e+01 4.8776700 \*

 1891) METADom\_Chem\_rotation\_minus\_2\_ROUNDUP\_MAX>=0.0004147799 2461 2.151832e+03 4.3181800

 3782) SatDom\_MIR\_var\_120< 3.535009e-05 1893 1.606429e+03 4.1286950

 7564) METADom\_Chem\_rotation\_minus\_2\_DIURON< 0.07728782 1683 1.166572e+03 4.0068920

 15128) SatDom\_Reflect\_b6\_mean\_160>=0.2107931 867 4.366485e+02 3.7019260

 30256) SatDom\_red\_band\_var\_40>=1.543842e-06 730 3.137330e+02 3.5664930

 60512) METADom\_Chem\_rotation\_minus\_2\_SUMMER< -8.912142e-18 141 3.764092e+01 3.1651770 \*

 60513) METADom\_Chem\_rotation\_minus\_2\_SUMMER>=-8.912142e-18 589 2.479472e+02 3.6625640 \*

 30257) SatDom\_red\_band\_var\_40< 1.543842e-06 137 3.817895e+01 4.4235770 \*

 15129) SatDom\_Reflect\_b6\_mean\_160< 0.2107931 816 5.636146e+02 4.3309190

 30258) SatDom\_GPP\_var\_180>=4.848882e-06 412 1.912584e+02 3.9608010

 60516) METADom\_Fert\_rotation\_minus\_2\_DAP>=0.1650126 153 2.667372e+01 3.6041830 \*

 60517) METADom\_Fert\_rotation\_minus\_2\_DAP< 0.1650126 259 1.336322e+02 4.1714670 \*

 30259) SatDom\_GPP\_var\_180< 4.848882e-06 404 2.583609e+02 4.7083660

 60518) METADom\_Chem\_rotation\_minus\_2\_ESTER< 0.01843495 275 1.124721e+02 4.5258550 \*

 60519) METADom\_Chem\_rotation\_minus\_2\_ESTER>=0.01843495 129 1.172005e+02 5.0974420 \*

 7565) METADom\_Chem\_rotation\_minus\_2\_DIURON>=0.07728782 210 2.147804e+02 5.1048570 \*

 3783) SatDom\_MIR\_var\_120>=3.535009e-05 568 2.509199e+02 4.9496830

 7566) SatDom\_blue\_band\_max\_10< 0.041875 364 1.098662e+02 4.6927200 \*

 7567) SatDom\_blue\_band\_max\_10>=0.041875 204 7.413283e+01 5.4081860 \*

 473) SatDom\_FPAR\_mean\_40< 0.238625 1269 1.148942e+03 4.6341530

 946) SatDom\_Reflect\_b3\_var\_150< 6.542535e-07 219 1.452864e+02 3.5103650 \*

 947) SatDom\_Reflect\_b3\_var\_150>=6.542535e-07 1050 6.693949e+02 4.8685430

 1894) SatDom\_Reflect\_b1\_min\_140< 0.0898875 881 4.432897e+02 4.6953460

 3788) SatDom\_Pot\_EvapoTrans\_min..10< 25.9 374 1.609462e+02 4.3743320 \*

 3789) SatDom\_Pot\_EvapoTrans\_min..10>=25.9 507 2.153722e+02 4.9321500

 7578) METADom\_Chem\_rotation\_minus\_1\_LOGRAN>=0.00680445 193 8.934534e+01 4.6677720 \*

 7579) METADom\_Chem\_rotation\_minus\_1\_LOGRAN< 0.00680445 314 1.042454e+02 5.0946500 \*

 1895) SatDom\_Reflect\_b1\_min\_140>=0.0898875 169 6.191106e+01 5.7714200 \*

 237) SatDom\_PsnNet\_max\_160>=0.0406375 2468 3.258144e+03 4.6088530

 474) SatDom\_Reflect\_b1\_mean\_210< 0.1463831 1398 1.425111e+03 4.1956370

 948) METADom\_Chemicals\_time\_Chemicals\_PINOXADEN>=68.80806 140 6.175329e+01 3.0667140 \*

 949) METADom\_Chemicals\_time\_Chemicals\_PINOXADEN< 68.80806 1258 1.165076e+03 4.3212720

 1898) SatDom\_Reflect\_b2\_var\_80>=0.0002299302 388 1.586000e+02 3.8603090 \*

 1899) SatDom\_Reflect\_b2\_var\_80< 0.0002299302 870 8.872624e+02 4.5268510

 3798) SatDom\_LAI\_mean\_60>=0.685 632 6.330824e+02 4.3780380 \*

 3799) SatDom\_LAI\_mean\_60< 0.685 238 2.030190e+02 4.9220170 \*

 475) SatDom\_Reflect\_b1\_mean\_210>=0.1463831 1070 1.282449e+03 5.1487380

 950) SatDom\_EVI\_var\_60< 0.0006738782 678 7.438703e+02 4.7434370

 1900) SatDom\_Pot\_EvapoTrans\_var\_70< 1.378265 370 2.022387e+02 4.3013240 \*

 1901) SatDom\_Pot\_EvapoTrans\_var\_70>=1.378265 308 3.824306e+02 5.2745450

 3802) SatDom\_Reflect\_b3\_var\_10< 3.409966e-06 149 2.614728e+02 4.9168460 \*

 3803) SatDom\_Reflect\_b3\_var\_10>=3.409966e-06 159 8.402799e+01 5.6097480 \*

 951) SatDom\_EVI\_var\_60>=0.0006738782 392 2.345708e+02 5.8497450

 1902) SatDom\_LST\_day\_max\_60>=34.29 195 8.752717e+01 5.5024100 \*

 1903) SatDom\_LST\_day\_max\_60< 34.29 197 1.002323e+02 6.1935530 \*

 119) METADom\_TEBUCONAZOLE>=36.75 3914 5.951769e+03 4.8645380

 238) SatDom\_LST\_day\_mean\_170>=43.46017 3451 4.234131e+03 4.6686820

 476) SatDom\_blue\_band\_var\_50< 6.074349e-06 3072 3.071793e+03 4.5035290

 952) SatDom\_Aero\_q\_190>=0.5 825 7.300013e+02 3.7460730

 1904) BOMDom\_min\_temperature\_mean\_230>=13.375 515 2.478498e+02 3.2440580

 3808) SatDom\_NDVI\_70>=72.86583 168 8.934609e+01 2.7377980 \*

 3809) SatDom\_NDVI\_70< 72.86583 347 9.459866e+01 3.4891640 \*

 1905) BOMDom\_min\_temperature\_mean\_230< 13.375 310 1.367438e+02 4.5800650

 3810) SatDom\_Reflect\_b2\_var..60< 9.589615e-05 126 2.737235e+01 4.0183330 \*

 3811) SatDom\_Reflect\_b2\_var..60>=9.589615e-05 184 4.238739e+01 4.9647280 \*

 953) SatDom\_Aero\_q\_190< 0.5 2247 1.694669e+03 4.7816330

 1906) METADom\_Chem\_rotation\_minus\_1\_DUAL< 0.01554059 1939 1.152487e+03 4.6183700

 3812) SatDom\_Reflect\_b5\_var\_30>=1.511718e-05 1681 8.351467e+02 4.4875310

 7624) SatDom\_Pot\_EvapoTrans\_mean\_240< 61.39187 479 1.498562e+02 4.0528600 \*

 7625) SatDom\_Pot\_EvapoTrans\_mean\_240>=61.39187 1202 5.587235e+02 4.6607490

 15250) BOMDom\_min\_temperature\_var\_220>=20.24806 140 4.697944e+01 3.9363570 \*

 15251) BOMDom\_min\_temperature\_var\_220< 20.24806 1062 4.285955e+02 4.7562430

 30502) SatDom\_Reflect\_b6\_max\_70< 0.21335 725 2.589860e+02 4.5925100 \*

 30503) SatDom\_Reflect\_b6\_max\_70>=0.21335 337 1.083599e+02 5.1084870 \*

 3813) SatDom\_Reflect\_b5\_var\_30< 1.511718e-05 258 1.010680e+02 5.4708530 \*

 1907) METADom\_Chem\_rotation\_minus\_1\_DUAL>=0.01554059 308 1.651264e+02 5.8094480

 3814) SatDom\_Reflect\_b2\_90< 48.00239 176 8.497180e+01 5.5092610 \*

 3815) SatDom\_Reflect\_b2\_90>=48.00239 132 4.314859e+01 6.2096970 \*

 477) SatDom\_blue\_band\_var\_50>=6.074349e-06 379 3.993818e+02 6.0073350

 954) SatDom\_FPAR\_min\_10>=0.24 219 1.138246e+02 5.3831960 \*

 955) SatDom\_FPAR\_min\_10< 0.24 160 8.347618e+01 6.8616250 \*

 239) SatDom\_LST\_day\_mean\_170< 43.46017 463 5.985644e+02 6.3243630

 478) METADom\_Chem\_rotation\_minus\_2\_CLETHODIM>=-4.445229e-18 282 1.668029e+02 5.7595040 \*

 479) METADom\_Chem\_rotation\_minus\_2\_CLETHODIM< -4.445229e-18 181 2.016003e+02 7.2044200 \*

 15) SatDom\_EVI\_mean\_160>=0.5025781 5111 1.311580e+04 5.5593520

 30) METADom\_Nitrogen\_fert\_repeat\_2< 23.5 3583 7.285548e+03 5.1026400

 60) SatDom\_EvapoTrans\_var\_130>=0.08264779 3450 5.055707e+03 4.9748810

 120) SatDom\_LST\_day\_mean\_30>=35.38345 707 8.906126e+02 4.0735500

 240) SatDom\_Pot\_EvapoTrans\_max\_170< 47.24375 114 5.627145e+01 2.6750000 \*

 241) SatDom\_Pot\_EvapoTrans\_max\_170>=47.24375 593 5.684979e+02 4.3424110

 482) SatDom\_Reflect\_b2\_var.0< 0.0001513827 345 2.853480e+02 3.9333040

 964) SatDom\_Reflect\_b1\_mean\_150< 0.03914813 110 5.436635e+01 3.5688180 \*

 965) SatDom\_Reflect\_b1\_mean\_150>=0.03914813 235 2.095278e+02 4.1039150 \*

 483) SatDom\_Reflect\_b2\_var.0>=0.0001513827 248 1.450808e+02 4.9115320 \*

 121) SatDom\_LST\_day\_mean\_30< 35.38345 2743 3.442689e+03 5.2071970

 242) METADom\_Chem\_rotation\_minus\_1\_MCPA< 0.1362487 2436 2.515450e+03 5.0401930

 484) SatDom\_Emis32..20< 70.05867 2008 1.897736e+03 4.8847110

 968) SatDom\_Reflect\_b5\_mean\_70>=0.3440331 369 2.738456e+02 4.2024390

 1936) SatDom\_red\_band\_mean\_80>=0.04649141 106 1.238288e+02 3.6303770 \*

 1937) SatDom\_red\_band\_mean\_80< 0.04649141 263 1.013467e+02 4.4330040 \*

 969) SatDom\_Reflect\_b5\_mean\_70< 0.3440331 1639 1.413451e+03 5.0383160

 1938) SatDom\_Latent\_heat\_max\_130>=5655625 1139 9.240645e+02 4.8419840

 3876) METADom\_Chem\_rotation\_minus\_1\_TRIF>=0.007181737 112 8.506564e+01 4.0115180 \*

 3877) METADom\_Chem\_rotation\_minus\_1\_TRIF< 0.007181737 1027 7.533315e+02 4.9325510

 7754) SatDom\_LST\_day\_var.0< 1.92589 240 1.714968e+02 4.5752500 \*

 7755) SatDom\_LST\_day\_var.0>=1.92589 787 5.418517e+02 5.0415120 \*

 1939) SatDom\_Latent\_heat\_max\_130< 5655625 500 3.454691e+02 5.4855600

 3878) SatDom\_EvapoTrans\_var\_150>=14.63982 167 1.139985e+02 4.9370060 \*

 3879) SatDom\_EvapoTrans\_var\_150< 14.63982 333 1.560169e+02 5.7606610

 7758) SatDom\_EvapoTrans\_max\_240< 7.141667 224 7.094051e+01 5.5556250 \*

 7759) SatDom\_EvapoTrans\_max\_240>=7.141667 109 5.630736e+01 6.1820180 \*

 485) SatDom\_Emis32..20>=70.05867 428 3.414294e+02 5.7696500

 970) SatDom\_FPAR\_var\_230< 0.0002526389 122 8.506484e+01 5.1163110 \*

 971) SatDom\_FPAR\_var\_230>=0.0002526389 306 1.835266e+02 6.0301310

 1942) METADom\_Fert\_rotation\_minus\_1\_EXTRA>=-5.499073e-17 182 6.966972e+01 5.7946150 \*

 1943) METADom\_Fert\_rotation\_minus\_1\_EXTRA< -5.499073e-17 124 8.894482e+01 6.3758060 \*

 243) METADom\_Chem\_rotation\_minus\_1\_MCPA>=0.1362487 307 3.202005e+02 6.5323450

 486) BOMDom\_rainfall\_mean\_.30>=0.8825 140 1.883314e+02 6.0312860 \*

 487) BOMDom\_rainfall\_mean\_.30< 0.8825 167 6.725484e+01 6.9523950 \*

 61) SatDom\_EvapoTrans\_var\_130< 0.08264779 133 7.127975e+02 8.4166920 \*

 31) METADom\_Nitrogen\_fert\_repeat\_2>=23.5 1528 3.330400e+03 6.6302950

 62) METADom\_Chem\_rotation\_minus\_2\_CADENCE>=0.005310412 535 5.345056e+02 5.4458500

 124) SatDom\_Reflect\_b3\_var\_180< 4.185924e-06 197 1.191096e+02 4.6709140 \*

 125) SatDom\_Reflect\_b3\_var\_180>=4.185924e-06 338 2.281399e+02 5.8975150

 250) BOMDom\_max\_temperature\_var\_190< 23.16361 199 6.231810e+01 5.5556280 \*

 251) BOMDom\_max\_temperature\_var\_190>=23.16361 139 1.092605e+02 6.3869780 \*

 63) METADom\_Chem\_rotation\_minus\_2\_CADENCE< 0.005310412 993 1.640960e+03 7.2684390

 126) SatDom\_red\_band\_min\_70>=0.05215 251 1.015245e+02 5.9109960 \*

 127) SatDom\_red\_band\_min\_70< 0.05215 742 9.204764e+02 7.7276280

 254) SatDom\_EVI\_var..60< 6.729818e-06 295 1.457163e+02 6.9210170 \*

 255) SatDom\_EVI\_var..60>=6.729818e-06 447 4.561594e+02 8.2599550

 510) SatDom\_LAI\_max\_30< 1.05 328 2.521511e+02 8.0359760 \*

 511) SatDom\_LAI\_max\_30>=1.05 119 1.421993e+02 8.8773110 \*

**Wheat Regression tree: Predicted at Time of Sowing**

**Leaf values indicate node-average yield, in t/Ha**

**Model Accuracy: Missing Site Prediction R2 = 0.44; p<0.0001**

**n= 52362**

**node), split, n, deviance, yval**

 **\* denotes terminal node**

 1) root 52362 1.270457e+05 3.3751660

 2) METADom\_Fertiliser\_time\_MAP< -2.744775 30869 5.644097e+04 2.9035900

 4) SatDom\_MIR..20>=20.35942 13975 1.761428e+04 2.3381040

 8) SatDom\_GPP\_min.0< 0.00855 12132 1.302614e+04 2.2019530

 16) METADom\_Nitrogen\_fert\_repeat\_1< 25.25 10210 9.539180e+03 2.0722000

 32) SatDom\_LST\_night\_var..60>=3.438542 5658 4.129658e+03 1.7788230

 64) BOMDom\_solar\_exposure\_var\_.50>=0.9958333 5259 3.533770e+03 1.7021220

 128) SatDom\_FPAR\_mean..20< 0.226875 5199 3.079668e+03 1.6708520

 256) SatDom\_EvapoTrans\_var..30>=0.004807292 4982 2.534367e+03 1.6160000

 512) SatDom\_LST\_night\_max..70< 45.39 4768 2.206185e+03 1.5644880

 1024) SatDom\_Reflect\_b7\_mean.0>=0.2307531 4045 1.481878e+03 1.4669020

 2048) SatDom\_EvapoTrans\_min..10< 2.925 647 1.490394e+02 0.9569088 \*

 2049) SatDom\_EvapoTrans\_min..10>=2.925 3398 1.132517e+03 1.5640080

 4098) METADom\_Chem\_rotation\_minus\_1\_VERDICT< 0.01157271 2547 7.319567e+02 1.4538910

 8196) BOMDom\_rainfall\_csum\_.10< 72.05 1892 4.547019e+02 1.3163790 \*

 8197) BOMDom\_rainfall\_csum\_.10>=72.05 655 1.381360e+02 1.8510990 \*

 4099) METADom\_Chem\_rotation\_minus\_1\_VERDICT>=0.01157271 851 2.772400e+02 1.8935840

 8198) METADom\_Chem\_rotation\_minus\_1\_STARANE< 0.002376174 736 1.096868e+02 1.7342260 \*

 8199) METADom\_Chem\_rotation\_minus\_1\_STARANE>=0.002376174 115 2.924121e+01 2.9134780 \*

 1025) SatDom\_Reflect\_b7\_mean.0< 0.2307531 723 4.702727e+02 2.1104560

 2050) SatDom\_Reflect\_b3\_max..40< 0.07105 244 5.239716e+01 1.3469670 \*

 2051) SatDom\_Reflect\_b3\_max..40>=0.07105 479 2.031922e+02 2.4993740 \*

 513) SatDom\_LST\_night\_max..70>=45.39 214 3.365058e+01 2.7636920 \*

 257) SatDom\_EvapoTrans\_var..30< 0.004807292 217 1.861670e+02 2.9301840 \*

 129) SatDom\_FPAR\_mean..20>=0.226875 60 8.520433e+00 4.4116670 \*

 65) BOMDom\_solar\_exposure\_var\_.50< 0.9958333 399 1.571623e+02 2.7897740 \*

 33) SatDom\_LST\_night\_var..60< 3.438542 4552 4.317231e+03 2.4368590

 66) METADom\_Fert\_rotation\_minus\_2\_EIGHTEEN\_TO\_TWENTY>=-2.619432e-17 4233 3.338309e+03 2.3303430

 132) METADom\_Nitrogen\_fert\_repeat\_2< 12.2 4069 2.644006e+03 2.2505460

 264) SatDom\_Latent\_heat..30< 4.488652e+07 1182 4.842627e+02 1.7956430

 528) SatDom\_NIR\_mean..30< 0.2329247 211 1.249245e+01 0.9846919 \*

 529) SatDom\_NIR\_mean..30>=0.2329247 971 3.028545e+02 1.9718640

 1058) SatDom\_MIR\_min..30>=0.2859 808 1.341342e+02 1.8030690 \*

 1059) SatDom\_MIR\_min..30< 0.2859 163 3.158138e+01 2.8085890 \*

 265) SatDom\_Latent\_heat..30>=4.488652e+07 2887 1.815000e+03 2.4367930

 530) METADom\_Date\_soil\_test\_10cm\_numeric.test\_10cm< -37 605 2.663244e+02 1.8459670 \*

 531) METADom\_Date\_soil\_test\_10cm\_numeric.test\_10cm>=-37 2282 1.281495e+03 2.5934310

 1062) SatDom\_Emis31\_mean.0>=0.983325 840 4.134280e+02 2.1672860

 2124) BOMDom\_solar\_exposure\_mean\_.70< 20.83 522 9.447939e+01 1.8177200 \*

 2125) BOMDom\_solar\_exposure\_mean\_.70>=20.83 318 1.504565e+02 2.7411010 \*

 1063) SatDom\_Emis31\_mean.0< 0.983325 1442 6.266629e+02 2.8416710

 2126) SatDom\_MIR\_var.0>=4.363516e-05 782 2.859824e+02 2.5375190 \*

 2127) SatDom\_MIR\_var.0< 4.363516e-05 660 1.826249e+02 3.2020450 \*

 133) METADom\_Nitrogen\_fert\_repeat\_2>=12.2 164 2.555149e+01 4.3101830 \*

 67) METADom\_Fert\_rotation\_minus\_2\_EIGHTEEN\_TO\_TWENTY< -2.619432e-17 319 2.936087e+02 3.8502820

 134) SatDom\_Reflect\_b6..10>=32.70816 75 1.531842e+01 2.5225330 \*

 135) SatDom\_Reflect\_b6..10< 32.70816 244 1.054305e+02 4.2584020 \*

 17) METADom\_Nitrogen\_fert\_repeat\_1>=25.25 1922 2.401941e+03 2.8912230

 34) SatDom\_Pot\_EvapoTrans\_max..70< 47.225 224 5.151116e+01 1.3004460 \*

 35) SatDom\_Pot\_EvapoTrans\_max..70>=47.225 1698 1.708804e+03 3.1010780

 70) SatDom\_Reflect\_b2\_min..40>=0.293225 254 9.637412e+01 1.9462990 \*

 71) SatDom\_Reflect\_b2\_min..40< 0.293225 1444 1.214138e+03 3.3042040

 142) SatDom\_NDVI\_mean.0>=0.2567766 543 2.171724e+02 2.6747880 \*

 143) SatDom\_NDVI\_mean.0< 0.2567766 901 6.522052e+02 3.6835290

 286) METADom\_Chem\_rotation\_minus\_1\_TERBYNE>=0.0002780193 396 1.480215e+02 3.0698230 \*

 287) METADom\_Chem\_rotation\_minus\_1\_TERBYNE< 0.0002780193 505 2.380808e+02 4.1647720 \*

 9) SatDom\_GPP\_min.0>=0.00855 1843 2.882834e+03 3.2343520

 18) METADom\_Chem\_rotation\_minus\_2\_LONTREL< 0.1645563 1665 2.008914e+03 3.0324020

 36) METADom\_Fert\_rotation\_minus\_2\_MN>=0.002831506 403 2.042544e+02 2.0028290 \*

 37) METADom\_Fert\_rotation\_minus\_2\_MN< 0.002831506 1262 1.241055e+03 3.3611810

 74) METADom\_Chem\_rotation\_minus\_1\_SELECT>=0.03011595 572 3.555412e+02 2.7717310

 148) SatDom\_EvapoTrans\_min..30< 6.075 383 1.204089e+02 2.3722720 \*

 149) SatDom\_EvapoTrans\_min..30>=6.075 189 5.017222e+01 3.5812170 \*

 75) METADom\_Chem\_rotation\_minus\_1\_SELECT< 0.03011595 690 5.220172e+02 3.8498260

 150) BOMDom\_max\_temperature\_max\_.10< 22.95 87 1.577684e+01 2.3917240 \*

 151) BOMDom\_max\_temperature\_max\_.10>=22.95 603 2.945862e+02 4.0601990 \*

 19) METADom\_Chem\_rotation\_minus\_2\_LONTREL>=0.1645563 178 1.708416e+02 5.1233710 \*

 5) SatDom\_MIR..20< 20.35942 16894 3.066112e+04 3.3713700

 10) METADom\_Nitrogen\_fert\_repeat\_3< 23.5 16639 2.648903e+04 3.3157270

 20) METADom\_Organic\_C\_10cm.test\_10cm< 1.22826 9484 1.257128e+04 3.0328020

 40) METADom\_Chem\_rotation\_minus\_2\_GOAL>=0.009227678 1735 1.862829e+03 2.3408360

 80) SatDom\_LST\_day\_max..20< 49.24 817 3.797691e+02 1.7108080

 160) SatDom\_Reflect\_b7\_var..80< 0.0001322411 644 1.449233e+02 1.4686490 \*

 161) SatDom\_Reflect\_b7\_var..80>=0.0001322411 173 5.650022e+01 2.6122540 \*

 81) SatDom\_LST\_day\_max..20>=49.24 918 8.701480e+02 2.9015470

 162) METADom\_Chem\_rotation\_minus\_1\_BPOWER>=-1.498367e-17 312 2.008667e+02 2.0731090

 324) SatDom\_Reflect\_b2\_var..80>=5.62804e-05 156 1.466934e+01 1.4260260 \*

 325) SatDom\_Reflect\_b2\_var..80< 5.62804e-05 156 5.555769e+01 2.7201920 \*

 163) METADom\_Chem\_rotation\_minus\_1\_BPOWER< -1.498367e-17 606 3.449084e+02 3.3280690 \*

 41) METADom\_Chem\_rotation\_minus\_2\_GOAL< 0.009227678 7749 9.691698e+03 3.1877330

 82) SatDom\_Pot\_EvapoTrans\_mean..10< 28.76 1742 1.633885e+03 2.5965670

 164) METADom\_Phos\_fert< 14.3 930 5.970031e+02 2.1124730

 328) SatDom\_blue\_band\_var..70>=3.418763e-07 782 2.930138e+02 1.8759850

 656) METADom\_Chem\_rotation\_minus\_1\_ROUNDUP>=0.1852371 378 7.399315e+01 1.4519580 \*

 657) METADom\_Chem\_rotation\_minus\_1\_ROUNDUP< 0.1852371 404 8.746660e+01 2.2727230 \*

 329) SatDom\_blue\_band\_var..70< 3.418763e-07 148 2.916959e+01 3.3620270 \*

 165) METADom\_Phos\_fert>=14.3 812 5.693246e+02 3.1510100

 330) METADom\_Chem\_rotation\_minus\_2\_ROUNDUP\_CT< 0.0008120926 207 5.418217e+01 2.2267150 \*

 331) METADom\_Chem\_rotation\_minus\_2\_ROUNDUP\_CT>=0.0008120926 605 2.777908e+02 3.4672560 \*

 83) SatDom\_Pot\_EvapoTrans\_mean..10>=28.76 6007 7.272480e+03 3.3591680

 166) BOMDom\_Sowing\_date\_numeric>=15469 3002 3.163593e+03 3.0360660

 332) SatDom\_Reflect\_b2\_mean..40>=0.23491 589 2.017936e+02 2.1787610 \*

 333) SatDom\_Reflect\_b2\_mean..40< 0.23491 2413 2.423232e+03 3.2453290

 666) SatDom\_LST\_day\_var..60>=5.878558 1736 1.398841e+03 2.9830130

 1332) SatDom\_EVI..30< 10.87218 1487 1.008090e+03 2.8180560

 2664) SatDom\_LST\_night\_min..50< 27.985 355 8.051228e+01 2.1066760 \*

 2665) SatDom\_LST\_night\_min..50>=27.985 1132 6.915865e+02 3.0411480

 5330) SatDom\_Pot\_latent\_heat\_var..60>=3.344876e+11 695 2.860807e+02 2.7256400 \*

 5331) SatDom\_Pot\_latent\_heat\_var..60< 3.344876e+11 437 2.262923e+02 3.5429290 \*

 1333) SatDom\_EVI..30>=10.87218 249 1.086530e+02 3.9681120 \*

 667) SatDom\_LST\_day\_var..60< 5.878558 677 5.986263e+02 3.9179760

 1334) BOMDom\_solar\_exposure\_min\_.50< 13 385 1.662574e+02 3.3882340 \*

 1335) BOMDom\_solar\_exposure\_min\_.50>=13 292 1.818755e+02 4.6164380 \*

 167) BOMDom\_Sowing\_date\_numeric< 15469 3005 3.482414e+03 3.6819470

 334) SatDom\_EVI\_var.0>=4.576405e-05 806 1.075190e+03 2.8757200

 668) BOMDom\_rainfall\_csum\_.30< 77.6 540 4.051455e+02 2.3532590

 1336) METADom\_Fert\_rotation\_minus\_1\_N< 0.1096827 449 1.906640e+02 2.0785970 \*

 1337) METADom\_Fert\_rotation\_minus\_1\_N>=0.1096827 91 1.348098e+01 3.7084620 \*

 669) BOMDom\_rainfall\_csum\_.30>=77.6 266 2.234088e+02 3.9363530 \*

 335) SatDom\_EVI\_var.0< 4.576405e-05 2199 1.691296e+03 3.9774530

 670) BOMDom\_solar\_exposure\_mean\_.80< 22.295 1442 8.880756e+02 3.7307210

 1340) METADom\_Fert\_rotation\_minus\_1\_SOA>=0.008581384 205 5.302592e+01 2.8348290 \*

 1341) METADom\_Fert\_rotation\_minus\_1\_SOA< 0.008581384 1237 6.432444e+02 3.8791920 \*

 671) BOMDom\_solar\_exposure\_mean\_.80>=22.295 757 5.482166e+02 4.4474500

 1342) SatDom\_Reflect\_b3\_var..60>=2.51065e-06 482 2.787905e+02 4.1083200 \*

 1343) SatDom\_Reflect\_b3\_var..60< 2.51065e-06 275 1.168294e+02 5.0418550 \*

 21) METADom\_Organic\_C\_10cm.test\_10cm>=1.22826 7155 1.215232e+04 3.6907460

 42) SatDom\_Reflect\_b5.0>=28.84638 2036 2.864697e+03 3.0031780

 84) METADom\_Chem\_rotation\_minus\_1\_AVADEX\_XTRA< -3.801213e-17 974 6.381435e+02 2.3658010

 168) BOMDom\_max\_temperature\_min\_.10< 19.1 830 2.546666e+02 2.1385300 \*

 169) BOMDom\_max\_temperature\_min\_.10>=19.1 144 9.350132e+01 3.6757640 \*

 85) METADom\_Chem\_rotation\_minus\_1\_AVADEX\_XTRA>=-3.801213e-17 1062 1.467968e+03 3.5877400

 170) SatDom\_MixClouds..40< 1.5 924 7.094151e+02 3.2743830

 340) SatDom\_red\_band\_mean..10>=0.1148681 434 2.572810e+02 2.7300460

 680) SatDom\_Emis32\_var..30>=7.166667e-07 276 7.990418e+01 2.3156520 \*

 681) SatDom\_Emis32\_var..30< 7.166667e-07 158 4.718957e+01 3.4539240 \*

 341) SatDom\_red\_band\_mean..10< 0.1148681 490 2.096399e+02 3.7565100 \*

 171) SatDom\_MixClouds..40>=1.5 138 6.032615e+01 5.6858700 \*

 43) SatDom\_Reflect\_b5.0< 28.84638 5119 7.942272e+03 3.9642160

 86) METADom\_Chem\_rotation\_minus\_2\_AMINE< 0.05179873 3725 4.536265e+03 3.6706500

 172) SatDom\_Pot\_EvapoTrans\_max..20>=36.39375 2475 2.117891e+03 3.3020970

 344) SatDom\_NDVI\_mean..40< 0.2613728 1432 9.433761e+02 2.8864660

 688) METADom\_Fert\_rotation\_minus\_2\_AP>=-1.43982e-17 1267 5.810103e+02 2.7206160

 1376) BOMDom\_max\_temperature\_var\_.80>=25.4305 161 5.057305e+01 1.7422980 \*

 1377) BOMDom\_max\_temperature\_var\_.80< 25.4305 1106 3.539120e+02 2.8630290 \*

 689) METADom\_Fert\_rotation\_minus\_2\_AP< -1.43982e-17 165 5.990360e+01 4.1600000 \*

 345) SatDom\_NDVI\_mean..40>=0.2613728 1043 5.875004e+02 3.8727420

 690) METADom\_Chem\_rotation\_minus\_1\_B>=-9.725293e-18 685 2.623118e+02 3.5576930 \*

 691) METADom\_Chem\_rotation\_minus\_1\_B< -9.725293e-18 358 1.271056e+02 4.4755590 \*

 173) SatDom\_Pot\_EvapoTrans\_max..20< 36.39375 1250 1.416552e+03 4.4003840

 346) SatDom\_blue\_band..70>=0.8397844 1034 6.817929e+02 4.1159770

 692) SatDom\_Reflect\_b5..70>=7.191294 145 3.650268e+01 2.8340000 \*

 693) SatDom\_Reflect\_b5..70< 7.191294 889 3.681196e+02 4.3250730 \*

 347) SatDom\_blue\_band..70< 0.8397844 216 2.507455e+02 5.7618520

 694) BOMDom\_max\_temperature\_mean\_.60< 30.555 187 8.274136e+01 5.4230480 \*

 695) BOMDom\_max\_temperature\_mean\_.60>=30.555 29 8.124255e+00 7.9465520 \*

 87) METADom\_Chem\_rotation\_minus\_2\_AMINE>=0.05179873 1394 2.227152e+03 4.7486730

 174) SatDom\_Reflect\_b5\_var..10< 0.0001379334 724 7.642276e+02 3.9922380

 348) METADom\_pH\_water\_60cm.test\_60cm>=8.45 222 3.660934e+01 2.8194590 \*

 349) METADom\_pH\_water\_60cm.test\_60cm< 8.45 502 2.872464e+02 4.5108760 \*

 175) SatDom\_Reflect\_b5\_var..10>=0.0001379334 670 6.009982e+02 5.5660750

 350) METADom\_Chem\_rotation\_minus\_1\_LEXONE>=-3.335006e-17 391 1.468708e+02 4.9949100 \*

 351) METADom\_Chem\_rotation\_minus\_1\_LEXONE< -3.335006e-17 279 1.478117e+02 6.3665230 \*

 11) METADom\_Nitrogen\_fert\_repeat\_3>=23.5 255 7.590051e+02 7.0021570

 22) METADom\_Chem\_rotation\_minus\_1\_ECLIPSE>=0.0003773585 42 1.742885e+01 3.6419050 \*

 23) METADom\_Chem\_rotation\_minus\_1\_ECLIPSE< 0.0003773585 213 1.738309e+02 7.6647420 \*

 3) METADom\_Fertiliser\_time\_MAP>=-2.744775 21493 5.388060e+04 4.0524590

 6) BOMDom\_Sowing\_date\_numeric< 16579 16446 3.478598e+04 3.7723030

 12) SatDom\_Reflect\_b7..50>=11.14287 7126 1.130453e+04 3.1839910

 24) BOMDom\_rainfall\_csum\_0< 59.2 1811 2.638034e+03 2.2418330

 48) SatDom\_Pot\_latent\_heat\_max..50< 1.462625e+07 1068 6.685221e+02 1.5424340

 96) SatDom\_LST\_night\_var..70< 11.97088 867 2.524976e+02 1.2510840 \*

 97) SatDom\_LST\_night\_var..70>=11.97088 201 2.498096e+01 2.7991540 \*

 49) SatDom\_Pot\_latent\_heat\_max..50>=1.462625e+07 743 6.961537e+02 3.2471600

 98) SatDom\_PsnNet\_min..10< 0.0041625 237 4.263389e+01 2.2997890 \*

 99) SatDom\_PsnNet\_min..10>=0.0041625 506 3.411803e+02 3.6908890

 198) METADom\_Fert\_rotation\_minus\_2\_UAN< 0.003975301 456 1.377251e+02 3.4932890 \*

 199) METADom\_Fert\_rotation\_minus\_2\_UAN>=0.003975301 50 2.327025e+01 5.4930000 \*

 25) BOMDom\_rainfall\_csum\_0>=59.2 5315 6.511198e+03 3.5050160

 50) SatDom\_EVI\_min..60< 0.1249187 2356 2.264651e+03 3.0748600

 100) SatDom\_Reflect\_b5\_mean.0>=0.2713437 1407 9.975066e+02 2.6641510

 200) SatDom\_Reflect\_b7\_var..40>=2.223633e-06 1347 6.668057e+02 2.5666820

 400) SatDom\_LST\_day\_var..80>=14.07252 585 2.022912e+02 2.1605470 \*

 401) SatDom\_LST\_day\_var..80< 14.07252 762 2.939422e+02 2.8784780 \*

 201) SatDom\_Reflect\_b7\_var..40< 2.223633e-06 60 3.061547e+01 4.8523330 \*

 101) SatDom\_Reflect\_b5\_mean.0< 0.2713437 949 6.779313e+02 3.6837830

 202) METADom\_Chem\_rotation\_minus\_2\_CADENCE< 0.007547092 797 2.994458e+02 3.4387330 \*

 203) METADom\_Chem\_rotation\_minus\_2\_CADENCE>=0.007547092 152 7.967834e+01 4.9686840 \*

 51) SatDom\_EVI\_min..60>=0.1249187 2959 3.463504e+03 3.8475130

 102) METADom\_Fert\_rotation\_minus\_1\_LEGUME< -3.46511e-17 270 2.080112e+02 2.5700000 \*

 103) METADom\_Fert\_rotation\_minus\_1\_LEGUME>=-3.46511e-17 2689 2.770597e+03 3.9757870

 206) SatDom\_Emis32\_mean.0< 0.98695 2439 2.269419e+03 3.8583800

 412) SatDom\_Emis32\_var..60>=8.067901e-07 909 6.127603e+02 3.4493730

 824) BOMDom\_rainfall\_mean\_.50< 0.45 492 1.612064e+02 2.9946340 \*

 825) BOMDom\_rainfall\_mean\_.50>=0.45 417 2.297767e+02 3.9858990 \*

 413) SatDom\_Emis32\_var..60< 8.067901e-07 1530 1.414251e+03 4.1013790

 826) SatDom\_Reflect\_b7\_max..40< 0.369375 1296 1.067746e+03 3.9466440

 1652) SatDom\_Reflect\_b2\_mean..10>=0.2769937 119 3.490636e+01 2.8246220 \*

 1653) SatDom\_Reflect\_b2\_mean..10< 0.2769937 1177 8.678796e+02 4.0600850 \*

 827) SatDom\_Reflect\_b7\_max..40>=0.369375 234 1.436150e+02 4.9583760 \*

 207) SatDom\_Emis32\_mean.0>=0.98695 250 1.395654e+02 5.1212000 \*

 13) SatDom\_Reflect\_b7..50< 11.14287 9320 1.912928e+04 4.2221210

 26) SatDom\_EvapoTrans\_mean..60>=1.76875 9069 1.596272e+04 4.1355890

 52) METADom\_Nitrogen\_fert\_repeat\_3< 38.05 8897 1.291908e+04 4.0633290

 104) SatDom\_PsnNet..80< 0.2958688 1666 2.329826e+03 3.3545320

 208) METADom\_Chem\_rotation\_minus\_2\_INTERVIX< 0.1307781 1609 1.575736e+03 3.2307580

 416) SatDom\_Reflect\_b6\_var..80< 8.34542e-06 230 7.541532e+01 1.9353480 \*

 417) SatDom\_Reflect\_b6\_var..80>=8.34542e-06 1379 1.049987e+03 3.4468170

 834) METADom\_Fert\_rotation\_minus\_1\_SULPHATE< 0.1229952 1258 7.822652e+02 3.3137200

 1668) METADom\_Fert\_rotation\_minus\_1\_DAP\_ZN< -4.250073e-17 186 8.410769e+01 2.4063980 \*

 1669) METADom\_Fert\_rotation\_minus\_1\_DAP\_ZN>=-4.250073e-17 1072 5.184683e+02 3.4711470

 3338) SatDom\_Latent\_heat..60< 3.394e+07 530 1.578817e+02 3.0663580 \*

 3339) SatDom\_Latent\_heat..60>=3.394e+07 542 1.888240e+02 3.8669740 \*

 835) METADom\_Fert\_rotation\_minus\_1\_SULPHATE>=0.1229952 121 1.374646e+01 4.8305790 \*

 209) METADom\_Chem\_rotation\_minus\_2\_INTERVIX>=0.1307781 57 3.362596e+01 6.8484210 \*

 105) SatDom\_PsnNet..80>=0.2958688 7231 9.559430e+03 4.2266340

 210) METADom\_Chem\_rotation\_minus\_2\_PMAX>=0.02007657 529 6.227402e+02 3.0396790

 420) SatDom\_Reflect\_b3\_var..30>=1.225907e-06 382 1.254988e+02 2.4593190 \*

 421) SatDom\_Reflect\_b3\_var..30< 1.225907e-06 147 3.422590e+01 4.5478230 \*

 211) METADom\_Chem\_rotation\_minus\_2\_PMAX< 0.02007657 6702 8.132575e+03 4.3203220

 422) METADom\_Fert\_rotation\_minus\_2\_ZINC>=0.01946467 5307 5.800315e+03 4.1717170

 844) METADom\_Chem\_rotation\_minus\_2\_AVADEX< 0.02555631 3878 3.755200e+03 3.9816580

 1688) SatDom\_Latent\_heat\_var..40< 7.584435e+11 3581 3.078861e+03 3.8879530

 3376) SatDom\_Reflect\_b5\_var..60< 4.734435e-06 227 1.296012e+02 2.7000000 \*

 3377) SatDom\_Reflect\_b5\_var..60>=4.734435e-06 3354 2.607229e+03 3.9683540

 6754) SatDom\_Reflect\_b5\_min..30>=0.298075 1037 7.518303e+02 3.5483800

 13508) SatDom\_Reflect\_b2\_min..50< 0.222675 300 9.338577e+01 2.7788000 \*

 13509) SatDom\_Reflect\_b2\_min..50>=0.222675 737 4.084445e+02 3.8616420

 27018) SatDom\_LAI\_min..40>=0.275 586 2.279166e+02 3.6414330 \*

 27019) SatDom\_LAI\_min..40< 0.275 151 4.183455e+01 4.7162250 \*

 6755) SatDom\_Reflect\_b5\_min..30< 0.298075 2317 1.590633e+03 4.1563190

 13510) SatDom\_MixClouds\_csum.0>=8.5 400 1.801427e+02 3.4379750 \*

 13511) SatDom\_MixClouds\_csum.0< 8.5 1917 1.161015e+03 4.3062080

 27022) SatDom\_Reflect\_b1\_var..30>=8.317938e-06 1552 8.003793e+02 4.1717010 \*

 27023) SatDom\_Reflect\_b1\_var..30< 8.317938e-06 365 2.131641e+02 4.8781370 \*

 1689) SatDom\_Latent\_heat\_var..40>=7.584435e+11 297 2.657743e+02 5.1114810 \*

 845) METADom\_Chem\_rotation\_minus\_2\_AVADEX>=0.02555631 1429 1.524880e+03 4.6874950

 1690) BOMDom\_Latitude>=-34.3344 485 5.448471e+02 3.9950520

 3380) SatDom\_LAI\_max..60< 0.8875 251 7.889636e+01 3.4118330 \*

 3381) SatDom\_LAI\_max..60>=0.8875 234 2.889958e+02 4.6206410 \*

 1691) BOMDom\_Latitude< -34.3344 944 6.280107e+02 5.0432520

 3382) METADom\_Chem\_rotation\_minus\_1\_DIURON>=0.209345 343 1.381464e+02 4.5376380 \*

 3383) METADom\_Chem\_rotation\_minus\_1\_DIURON< 0.209345 601 3.521341e+02 5.3318140 \*

 423) METADom\_Fert\_rotation\_minus\_2\_ZINC< 0.01946467 1395 1.769206e+03 4.8856630

 846) METADom\_total\_N\_60cm.test\_60cm< 7.05 167 1.012400e+02 3.2668260 \*

 847) METADom\_total\_N\_60cm.test\_60cm>=7.05 1228 1.170803e+03 5.1058140

 1694) SatDom\_EVI\_var..70>=7.534334e-07 1027 8.548348e+02 4.9237290

 3388) SatDom\_blue\_band\_var.0>=5.212728e-07 709 5.765680e+02 4.6589990 \*

 3389) SatDom\_blue\_band\_var.0< 5.212728e-07 318 1.177952e+02 5.5139620 \*

 1695) SatDom\_EVI\_var..70< 7.534334e-07 201 1.079406e+02 6.0361690 \*

 53) METADom\_Nitrogen\_fert\_repeat\_3>=38.05 172 5.941642e+02 7.8733720

 106) BOMDom\_min\_temperature\_mean\_.60>=14.775 88 7.715251e+01 6.5318180 \*

 107) BOMDom\_min\_temperature\_mean\_.60< 14.775 84 1.927109e+02 9.2788100 \*

 27) SatDom\_EvapoTrans\_mean..60< 1.76875 251 6.450897e+02 7.3486450

 54) SatDom\_Reflect\_b5\_var..70< 0.0002486262 178 1.732119e+02 6.5024160 \*

 55) SatDom\_Reflect\_b5\_var..70>=0.0002486262 73 3.360219e+01 9.4120550 \*

 7) BOMDom\_Sowing\_date\_numeric>=16579 5047 1.359763e+04 4.9653680

 14) BOMDom\_rainfall\_csum\_.40>=77.2 737 8.184043e+02 3.0366350

 28) BOMDom\_solar\_exposure\_mean\_.40>=16.305 214 7.988143e+01 1.8937850 \*

 29) BOMDom\_solar\_exposure\_mean\_.40< 16.305 523 3.446482e+02 3.5042640

 58) SatDom\_Reflect\_b4\_min..70>=0.1008938 235 7.086616e+01 2.8642980 \*

 59) SatDom\_Reflect\_b4\_min..70< 0.1008938 288 9.900239e+01 4.0264580 \*

 15) BOMDom\_rainfall\_csum\_.40< 77.2 4310 9.568767e+03 5.2951760

 30) METADom\_Chem\_rotation\_minus\_2\_LVEMCPA>=0.0002155172 3330 5.669444e+03 4.9507030

 60) METADom\_Chem\_rotation\_minus\_1\_LVE< 0.01510193 443 6.346111e+02 3.5435440

 120) METADom\_Chem\_rotation\_minus\_2\_SPINREPORTED\_NAKER< 0.0007490637 187 8.200160e+01 2.4721930 \*

 121) METADom\_Chem\_rotation\_minus\_2\_SPINREPORTED\_NAKER>=0.0007490637 256 1.811861e+02 4.3261330 \*

 61) METADom\_Chem\_rotation\_minus\_1\_LVE>=0.01510193 2887 4.023050e+03 5.1666260

 122) METADom\_Fert\_rotation\_minus\_1\_UAN>=0.03611111 125 7.476832e+01 2.8752000 \*

 123) METADom\_Fert\_rotation\_minus\_1\_UAN< 0.03611111 2762 3.262249e+03 5.2703290

 246) SatDom\_PsnNet\_min..80< 0.0163625 2584 2.407378e+03 5.1549610

 492) SatDom\_FPAR\_mean..60>=0.125875 2237 1.629927e+03 4.9723920

 984) SatDom\_GPP\_var.0< 2.130043e-07 896 5.030118e+02 4.5416180

 1968) SatDom\_Latent\_heat\_mean..20>=448016.7 755 2.997124e+02 4.3574300 \*

 1969) SatDom\_Latent\_heat\_mean..20< 448016.7 141 4.053556e+01 5.5278720 \*

 985) SatDom\_GPP\_var.0>=2.130043e-07 1341 8.495562e+02 5.2602160

 1970) METADom\_ESP\_10cm.test\_10cm>=1.2 934 4.391527e+02 5.0049570

 3940) BOMDom\_min\_temperature\_var\_.50>=11.41939 236 7.883900e+01 4.3400000 \*

 3941) BOMDom\_min\_temperature\_var\_.50< 11.41939 698 2.206799e+02 5.2297850 \*

 1971) METADom\_ESP\_10cm.test\_10cm< 1.2 407 2.098900e+02 5.8459950 \*

 493) SatDom\_FPAR\_mean..60< 0.125875 347 2.222038e+02 6.3319310 \*

 247) SatDom\_PsnNet\_min..80>=0.0163625 178 3.212062e+02 6.9451120

 494) SatDom\_Reflect\_b5\_mean..10>=0.3402462 46 1.794055e+01 5.3052170 \*

 495) SatDom\_Reflect\_b5\_mean..10< 0.3402462 132 1.364504e+02 7.5165910 \*

 31) METADom\_Chem\_rotation\_minus\_2\_LVEMCPA< 0.0002155172 980 2.161492e+03 6.4656840

 62) SatDom\_Pot\_latent\_heat\_mean..20>=6872796 583 7.907674e+02 5.6586110

 124) METADom\_Fert\_rotation\_minus\_1\_SULPHATE< 0.009111044 168 1.262391e+02 4.4357140 \*

 125) METADom\_Fert\_rotation\_minus\_1\_SULPHATE>=0.009111044 415 3.115816e+02 6.1536630

 250) BOMDom\_solar\_exposure\_csum\_.80>=268.6 262 1.130370e+02 5.7231300 \*

 251) BOMDom\_solar\_exposure\_csum\_.80< 268.6 153 6.681887e+01 6.8909150 \*

 63) SatDom\_Pot\_latent\_heat\_mean..20< 6872796 397 4.333146e+02 7.6508820

 126) METADom\_ESP\_60cm.test\_60cm< 4.958599 159 1.416412e+02 6.8933960 \*

 127) METADom\_ESP\_60cm.test\_60cm>=4.958599 238 1.394929e+02 8.1569330 \*

**Wheat Regression tree: Predicted at End of Season**

**Leaf values indicate node-average yield, in t/Ha**

**Model Accuracy: Missing Site Prediction R2 = 0.76; p<0.0001**

**n= 52362**

**node), split, n, deviance, yval**

 **\* denotes terminal node**

 1) root 52362 127045.70000 3.3751660

 2) SatDom\_MIR\_min\_150>=0.1412594 28022 35811.19000 2.5318580

 4) SatDom\_Reflect\_b6\_min\_130>=0.2482875 10784 10053.19000 1.8697350

 8) SatDom\_Reflect\_b7\_mean\_160>=0.29908 3903 1170.56400 1.2813630

 16) SatDom\_MIR\_mean\_160>=0.36115 841 150.20120 0.8136147 \*

 17) SatDom\_MIR\_mean\_160< 0.36115 3062 785.82480 1.4098330

 34) BOMDom\_rainfall\_csum\_160< 276.825 2467 447.37000 1.3032100 \*

 35) BOMDom\_rainfall\_csum\_160>=276.825 595 194.12380 1.8519160 \*

 9) SatDom\_Reflect\_b7\_mean\_160< 0.29908 6881 6765.08800 2.2034680

 18) SatDom\_Reflect\_b1\_var\_140>=7.727995e-07 6661 4489.56500 2.1088350

 36) SatDom\_Latent\_heat\_180< 6.485603e+08 5936 2898.07900 1.9697780

 72) BOMDom\_rainfall\_csum\_130< 231.4 2933 944.17690 1.6829760

 144) SatDom\_LST\_night\_mean\_80< 24.7045 1445 349.98580 1.4152530 \*

 145) SatDom\_LST\_night\_mean\_80>=24.7045 1488 390.04020 1.9429640

 290) SatDom\_NIR\_var..30< 3.883281e-07 214 20.53150 1.1845330 \*

 291) SatDom\_NIR\_var..30>=3.883281e-07 1274 225.73500 2.0703610 \*

 73) BOMDom\_rainfall\_csum\_130>=231.4 3003 1477.01800 2.2498930

 146) SatDom\_Reflect\_b5\_min..40>=0.23145 2789 1143.00600 2.1614090

 292) SatDom\_GPP\_max\_120< 0.02969375 1106 278.02460 1.7954520 \*

 293) SatDom\_GPP\_max\_120>=0.02969375 1683 619.52190 2.4019010

 586) SatDom\_LST\_night\_mean\_120>=25.9315 1315 351.09120 2.2515740 \*

 587) SatDom\_LST\_night\_mean\_120< 25.9315 368 132.52510 2.9390760 \*

 147) SatDom\_Reflect\_b5\_min..40< 0.23145 214 27.58816 3.4030840 \*

 37) SatDom\_Latent\_heat\_180>=6.485603e+08 725 536.89660 3.2473790

 74) SatDom\_red\_band\_var\_170>=3.561313e-05 299 69.08327 2.4850840 \*

 75) SatDom\_red\_band\_var\_170< 3.561313e-05 426 172.11660 3.7824180 \*

 19) SatDom\_Reflect\_b1\_var\_140< 7.727995e-07 220 409.79190 5.0686820

 38) SatDom\_Pot\_EvapoTrans\_max..70< 60 126 39.35132 4.1563490 \*

 39) SatDom\_Pot\_EvapoTrans\_max..70>=60 94 124.98570 6.2915960 \*

 5) SatDom\_Reflect\_b6\_min\_130< 0.2482875 17238 18072.54000 2.9460790

 10) SatDom\_red\_band\_190>=29.1758 10757 8050.20100 2.6621160

 20) BOMDom\_solar\_exposure\_max\_60< 11.05 2260 1179.95200 2.0594470

 40) METADom\_Chem\_rotation\_minus\_2\_SIMAZINE>=0.04749257 922 216.21930 1.5736980 \*

 41) METADom\_Chem\_rotation\_minus\_2\_SIMAZINE< 0.04749257 1338 596.27630 2.3941700

 82) SatDom\_FPAR\_mean\_90>=0.5700833 1060 313.92880 2.1935850 \*

 83) SatDom\_FPAR\_mean\_90< 0.5700833 278 77.08192 3.1589930 \*

 21) BOMDom\_solar\_exposure\_max\_60>=11.05 8497 5831.06700 2.8224110

 42) SatDom\_LST\_night\_max\_60< 33.84 8322 5179.29000 2.7841770

 84) SatDom\_NIR\_min\_110< 0.32885 4403 2382.63900 2.5588940

 168) SatDom\_Reflect\_b4\_var\_120< 1.281602e-05 2661 1111.35100 2.3423680

 336) BOMDom\_min\_temperature\_min\_60< 0.35 1189 366.06180 2.0030530 \*

 337) BOMDom\_min\_temperature\_min\_60>=0.35 1472 497.81810 2.6164470

 674) SatDom\_Reflect\_b5\_min..80>=0.4189 183 12.02136 1.7847540 \*

 675) SatDom\_Reflect\_b5\_min..80< 0.4189 1289 341.24210 2.7345230

 1350) SatDom\_Reflect\_b1\_var\_120>=1.098737e-05 616 93.96020 2.3999350 \*

 1351) SatDom\_Reflect\_b1\_var\_120< 1.098737e-05 673 115.20140 3.0407730 \*

 169) SatDom\_Reflect\_b4\_var\_120>=1.281602e-05 1742 955.95670 2.8896500

 338) SatDom\_red\_band\_max\_110>=0.097225 304 108.59670 2.0965130 \*

 339) SatDom\_red\_band\_max\_110< 0.097225 1438 615.69580 3.0573230

 678) METADom\_Chem\_rotation\_minus\_1\_POWER>=-3.178881e-17 881 306.63910 2.7887740 \*

 679) METADom\_Chem\_rotation\_minus\_1\_POWER< -3.178881e-17 557 145.02600 3.4820830 \*

 85) SatDom\_NIR\_min\_110>=0.32885 3919 2322.12800 3.0372820

 170) SatDom\_LST\_day\_var\_20>=0.7064931 3584 1792.49000 2.9369480

 340) SatDom\_Pot\_latent\_heat\_min\_30< 5363750 3012 1283.65000 2.8074700

 680) BOMDom\_solar\_exposure\_mean\_60< 8.825 223 37.05788 1.8415250 \*

 681) BOMDom\_solar\_exposure\_mean\_60>=8.825 2789 1021.88500 2.8847040

 1362) SatDom\_NDVI\_max\_170< 0.2004 158 16.86859 1.8539870 \*

 1363) SatDom\_NDVI\_max\_170>=0.2004 2631 827.08100 2.9466020

 2726) SatDom\_NIR\_var\_100>=3.116294e-05 1563 362.87630 2.7602180 \*

 2727) SatDom\_NIR\_var\_100< 3.116294e-05 1068 330.44410 3.2193730 \*

 341) SatDom\_Pot\_latent\_heat\_min\_30>=5363750 572 192.45490 3.6187410 \*

 171) SatDom\_LST\_day\_var\_20< 0.7064931 335 107.55040 4.1107160 \*

 43) SatDom\_LST\_night\_max\_60>=33.84 175 61.07643 4.6406290 \*

 11) SatDom\_red\_band\_190< 29.1758 6481 7715.27200 3.4173940

 22) SatDom\_EvapoTrans\_min..80< 3.95 2073 2049.60500 2.8793490

 44) BOMDom\_min\_temperature\_min\_.50< 7.8 871 528.41670 2.2321010

 88) SatDom\_PsnNet\_max\_130< 0.032575 571 192.75930 1.8559890 \*

 89) SatDom\_PsnNet\_max\_130>=0.032575 300 101.14470 2.9479670 \*

 45) BOMDom\_min\_temperature\_min\_.50>=7.8 1202 891.89370 3.3483610

 90) SatDom\_Reflect\_b5\_var\_40< 0.000106932 623 342.27560 2.8533230

 180) METADom\_Fert\_rotation\_minus\_2\_TWENTY\_FOUR\_TO\_SIXTEEN< -2.480655e-17 230 66.99684 2.2175650 \*

 181) METADom\_Fert\_rotation\_minus\_2\_TWENTY\_FOUR\_TO\_SIXTEEN>=-2.480655e-17 393 127.90980 3.2253940 \*

 91) SatDom\_Reflect\_b5\_var\_40>=0.000106932 579 232.66730 3.8810190 \*

 23) SatDom\_EvapoTrans\_min..80>=3.95 4408 4783.32400 3.6704260

 46) SatDom\_MIR\_min.0< 0.1589062 2330 1910.86300 3.2853300

 92) SatDom\_Reflect\_b3\_mean\_30< 0.02486812 204 59.86032 1.9263730 \*

 93) SatDom\_Reflect\_b3\_mean\_30>=0.02486812 2126 1438.11200 3.4157290

 186) SatDom\_Reflect\_b1..60>=2.540712 1736 940.55480 3.2346660

 372) SatDom\_LAI\_var\_130< 0.084125 1217 468.23160 3.0050290

 744) BOMDom\_solar\_exposure\_min\_130< 7.8 433 133.98180 2.5403230 \*

 745) BOMDom\_solar\_exposure\_min\_130>=7.8 784 189.09960 3.2616840 \*

 373) SatDom\_LAI\_var\_130>=0.084125 519 257.66020 3.7731410 \*

 187) SatDom\_Reflect\_b1..60< 2.540712 390 187.30990 4.2216920 \*

 47) SatDom\_MIR\_min.0>=0.1589062 2078 2139.48500 4.1022230

 94) SatDom\_Reflect\_b6\_mean..10>=0.3138256 505 350.87850 3.1502570

 188) SatDom\_Reflect\_b4\_mean\_120< 0.07023812 247 59.95304 2.4776520 \*

 189) SatDom\_Reflect\_b4\_mean\_120>=0.07023812 258 72.20488 3.7941860 \*

 95) SatDom\_Reflect\_b6\_mean..10< 0.3138256 1573 1184.03000 4.4078450

 190) SatDom\_Reflect\_b6\_max\_180>=0.270125 1384 706.66050 4.2393570

 380) SatDom\_LST\_day\_var..30>=3.889894 869 370.39310 3.9791250 \*

 381) SatDom\_LST\_day\_var..30< 3.889894 515 178.11770 4.6784660 \*

 191) SatDom\_Reflect\_b6\_max\_180< 0.270125 189 150.37500 5.6416400 \*

 3) SatDom\_MIR\_min\_150< 0.1412594 24340 48363.22000 4.3460440

 6) SatDom\_EVI\_mean\_160< 0.5025781 19422 25875.81000 4.0202770

 12) SatDom\_PsnNet\_max\_160< 0.032275 10170 11262.00000 3.7184990

 24) METADom\_Chem\_rotation\_minus\_2\_ROUNDUP\_POWERMAX< 0.1111326 9279 8794.61300 3.6055530

 48) METADom\_Chem\_rotation\_minus\_2\_ESTER< 0.1067012 8988 7377.23100 3.5443110

 96) BOMDom\_rainfall\_csum\_160< 318.05 3557 3097.71500 3.2171720

 192) METADom\_Chem\_rotation\_minus\_1\_GLEAN>=0.00170151 1996 1427.64700 2.8919840

 384) SatDom\_PsnNet\_var\_180< 1.103906e-07 284 65.07937 1.9126760 \*

 385) SatDom\_PsnNet\_var\_180>=1.103906e-07 1712 1045.01700 3.0544390

 770) METADom\_Chem\_rotation\_minus\_2\_GRAMMOXONE< 0.001582709 1242 510.43620 2.8014010

 1540) METADom\_Fert\_rotation\_minus\_1\_SOA< 0.007542432 375 102.74670 2.2629870 \*

 1541) METADom\_Fert\_rotation\_minus\_1\_SOA>=0.007542432 867 251.96140 3.0342790 \*

 771) METADom\_Chem\_rotation\_minus\_2\_GRAMMOXONE>=0.001582709 470 244.91310 3.7231060

 1542) SatDom\_Reflect\_b2..30< 13.85418 290 80.85533 3.3090340 \*

 1543) SatDom\_Reflect\_b2..30>=13.85418 180 34.22779 4.3902220 \*

 193) METADom\_Chem\_rotation\_minus\_1\_GLEAN< 0.00170151 1561 1189.10600 3.6329790

 386) SatDom\_Reflect\_b4\_var\_130< 1.514175e-05 692 453.52720 3.1476590

 772) SatDom\_MIR\_min\_90>=0.07474063 442 175.71350 2.7590270 \*

 773) SatDom\_MIR\_min\_90< 0.07474063 250 93.02944 3.8347600 \*

 387) SatDom\_Reflect\_b4\_var\_130>=1.514175e-05 869 442.79650 4.0194480

 774) SatDom\_NIR\_var\_150< 6.335487e-06 150 39.21150 3.0308000 \*

 775) SatDom\_NIR\_var\_150>=6.335487e-06 719 226.38440 4.2257020 \*

 97) BOMDom\_rainfall\_csum\_160>=318.05 5431 3649.52700 3.7585690

 194) SatDom\_LST\_night\_mean\_120< 27.929 3672 1968.19700 3.5708580

 388) BOMDom\_max\_temperature\_mean\_170>=31.635 235 117.13890 2.4865960 \*

 389) BOMDom\_max\_temperature\_mean\_170< 31.635 3437 1555.89600 3.6449930

 778) SatDom\_Reflect\_b7\_mean.0>=0.179955 2334 891.38710 3.4785130 \*

 779) SatDom\_Reflect\_b7\_mean.0< 0.179955 1103 462.93910 3.9972710 \*

 195) SatDom\_LST\_night\_mean\_120>=27.929 1759 1281.84700 4.1504260

 390) SatDom\_LST\_day\_var..30< 16.64659 1535 839.14490 3.9814200

 780) BOMDom\_solar\_exposure\_max\_140< 22.95 302 94.63691 3.1653640 \*

 781) BOMDom\_solar\_exposure\_max\_140>=22.95 1233 494.13230 4.1812980

 1562) METADom\_Fert\_rotation\_minus\_2\_MES>=-1.07336e-17 722 208.02220 3.8749030 \*

 1563) METADom\_Fert\_rotation\_minus\_2\_MES< -1.07336e-17 511 122.56350 4.6142070 \*

 391) SatDom\_LST\_day\_var..30>=16.64659 224 98.40654 5.3085710 \*

 49) METADom\_Chem\_rotation\_minus\_2\_ESTER>=0.1067012 291 342.47380 5.4971130

 98) SatDom\_NDVI\_min..10< 0.3004594 246 116.04210 5.1299590 \*

 99) SatDom\_NDVI\_min..10>=0.3004594 45 11.98850 7.5042220 \*

 25) METADom\_Chem\_rotation\_minus\_2\_ROUNDUP\_POWERMAX>=0.1111326 891 1116.30900 4.8947250

 50) SatDom\_Reflect\_b7\_mean\_30>=0.1181525 599 505.96380 4.4308350

 100) SatDom\_MIR\_var..20< 3.572749e-06 73 36.89666 2.7613700 \*

 101) SatDom\_MIR\_var..20>=3.572749e-06 526 237.37110 4.6625290 \*

 51) SatDom\_Reflect\_b7\_mean\_30< 0.1181525 292 217.01980 5.8463360 \*

 13) SatDom\_PsnNet\_max\_160>=0.032275 9252 12669.54000 4.3519980

 26) SatDom\_MIR\_max\_10>=0.17215 5990 6248.05800 4.0557760

 52) SatDom\_LAI\_mean\_10>=0.24375 3624 3159.64500 3.7798400

 104) SatDom\_NDVI\_max\_140< 0.7276594 1591 1021.38500 3.3887120

 208) SatDom\_MIR\_var\_190< 0.0001489201 1181 537.77950 3.1248350

 416) SatDom\_NDVI\_min..70< 0.28735 789 289.56520 2.8902280 \*

 417) SatDom\_NDVI\_min..70>=0.28735 392 117.38000 3.5970410 \*

 209) SatDom\_MIR\_var\_190>=0.0001489201 410 164.49750 4.1488050 \*

 105) SatDom\_NDVI\_max\_140>=0.7276594 2033 1704.38900 4.0859320

 210) SatDom\_LST\_day\_mean\_100< 33.3289 1100 806.54300 3.7213000

 420) SatDom\_LAI\_min\_100>=1.3375 611 359.80320 3.3846970 \*

 421) SatDom\_LAI\_min\_100< 1.3375 489 291.01410 4.1418810 \*

 211) SatDom\_LST\_day\_mean\_100>=33.3289 933 579.16390 4.5158310 \*

 53) SatDom\_LAI\_mean\_10< 0.24375 2366 2389.83000 4.4784280

 106) SatDom\_Latent\_heat\_70< 1.545598e+08 181 43.36204 2.4416020 \*

 107) SatDom\_Latent\_heat\_70>=1.545598e+08 2185 1533.35800 4.6471530

 214) SatDom\_LST\_night\_mean\_80< 24.4185 816 382.73710 4.1601350 \*

 215) SatDom\_LST\_night\_mean\_80>=24.4185 1369 841.71270 4.9374430

 430) SatDom\_Reflect\_b3\_min\_160>=0.01685 1305 588.02550 4.8486670 \*

 431) SatDom\_Reflect\_b3\_min\_160< 0.01685 64 33.68235 6.7476560 \*

 27) SatDom\_MIR\_max\_10< 0.17215 3262 4930.70400 4.8959500

 54) SatDom\_Reflect\_b7\_max\_70>=0.0699 2877 3658.97800 4.7025510

 108) SatDom\_Reflect\_b2\_var\_190>=0.0002498159 1185 1318.21300 4.1245820

 216) SatDom\_NIR\_var\_100< 3.661161e-06 194 122.14510 2.5863400 \*

 217) SatDom\_NIR\_var\_100>=3.661161e-06 991 647.16450 4.4257110

 434) SatDom\_Reflect\_b7\_var\_30>=1.015825e-05 823 432.12270 4.2533290 \*

 435) SatDom\_Reflect\_b7\_var\_30< 1.015825e-05 168 70.78089 5.2701790 \*

 109) SatDom\_Reflect\_b2\_var\_190< 0.0002498159 1692 1667.68500 5.1073350

 218) SatDom\_Reflect\_b7\_var\_120>=9.721528e-07 1581 1288.36900 4.9896270

 436) SatDom\_EvapoTrans\_min\_70< 8.95 1009 746.51740 4.7093860

 872) SatDom\_GPP\_var\_10< 3.309696e-07 258 93.22838 4.0283330 \*

 873) SatDom\_GPP\_var\_10>=3.309696e-07 751 492.50910 4.9433560 \*

 437) SatDom\_EvapoTrans\_min\_70>=8.95 572 322.82810 5.4839690 \*

 219) SatDom\_Reflect\_b7\_var\_120< 9.721528e-07 111 45.41343 6.7838740 \*

 55) SatDom\_Reflect\_b7\_max\_70< 0.0699 385 359.98460 6.3411690

 110) SatDom\_Reflect\_b2\_max\_50< 0.3646 307 120.92450 5.9877850 \*

 111) SatDom\_Reflect\_b2\_max\_50>=0.3646 78 49.82667 7.7320510 \*

 7) SatDom\_EVI\_mean\_160>=0.5025781 4918 12286.50000 5.6325500

 14) METADom\_Nitrogen\_fert\_repeat\_2< 23.5 3425 6719.68200 5.1698510

 28) METADom\_Fert\_rotation\_minus\_1\_AGFLOW>=-1.579466e-16 3305 4787.58400 5.0422300

 56) SatDom\_PsnNet\_max\_90< 0.0223 2646 3239.66300 4.7988440

 112) SatDom\_LST\_day\_mean\_30>=35.38345 642 776.61820 4.1240190

 224) SatDom\_Pot\_EvapoTrans\_mean\_170< 43.05487 78 31.14800 2.5988460 \*

 225) SatDom\_Pot\_EvapoTrans\_mean\_170>=43.05487 564 538.93770 4.3349470 \*

 113) SatDom\_LST\_day\_mean\_30< 35.38345 2004 2077.02500 5.0150300

 226) SatDom\_Pot\_latent\_heat..30< 9.863505e+08 1629 1446.48500 4.8113260

 452) SatDom\_Pot\_latent\_heat\_var..10< 4.378695e+11 770 534.99550 4.5075450 \*

 453) SatDom\_Pot\_latent\_heat\_var..10>=4.378695e+11 859 776.73610 5.0836320

 906) SatDom\_Reflect\_b4\_mean\_160>=0.08259812 96 125.55240 3.9909370 \*

 907) SatDom\_Reflect\_b4\_mean\_160< 0.08259812 763 522.13980 5.2211140 \*

 227) SatDom\_Pot\_latent\_heat..30>=9.863505e+08 375 269.30850 5.8999200 \*

 57) SatDom\_PsnNet\_max\_90>=0.0223 659 761.83810 6.0194690

 114) SatDom\_Reflect\_b1\_var\_130< 1.439127e-05 264 136.84850 5.0278410 \*

 115) SatDom\_Reflect\_b1\_var\_130>=1.439127e-05 395 191.88800 6.6822280 \*

 29) METADom\_Fert\_rotation\_minus\_1\_AGFLOW< -1.579466e-16 120 395.72720 8.6847500

 58) SatDom\_Reflect\_b6\_30>=37.40318 33 14.76199 6.1506060 \*

 59) SatDom\_Reflect\_b6\_30< 37.40318 87 88.65869 9.6459770 \*

 15) METADom\_Nitrogen\_fert\_repeat\_2>=23.5 1493 3151.43400 6.6939990

 30) METADom\_Chem\_rotation\_minus\_2\_CADENCE>=0.005310412 515 543.92360 5.5259610

 60) SatDom\_Reflect\_b3\_var..20< 2.868225e-05 418 288.01180 5.2193780 \*

 61) SatDom\_Reflect\_b3\_var..20>=2.868225e-05 97 47.31459 6.8471130 \*

 31) METADom\_Chem\_rotation\_minus\_2\_CADENCE< 0.005310412 978 1534.90000 7.3090700

 62) METADom\_Fert\_rotation\_minus\_1\_THIRTY\_TWO\_TO\_NINE>=0.001565996 264 109.42830 6.0908710 \*

 63) METADom\_Fert\_rotation\_minus\_1\_THIRTY\_TWO\_TO\_NINE< 0.001565996 714 888.83520 7.7594960

 126) SatDom\_LST\_day\_max..70>=62.235 302 216.22500 7.0305630 \*

 127) SatDom\_LST\_day\_max..70< 62.235 412 394.52170 8.2938110 \*

**Canola Regression tree: Predicted at Time of Sowing**

**Leaf values indicate node-average yield, in t/Ha**

**Model Accuracy: Missing Site Prediction R2 = 0.21; p<0.0001**

**n= 14321**

**node), split, n, deviance, yval**

 **\* denotes terminal node**

 1) root 14321 7941.3380000 2.0151750

 2) METADom\_Nitrogen\_fert\_repeat\_2< 2.37367 9248 4529.3200000 1.8442430

 4) SatDom\_GPP\_mean..50< 0.009111875 4066 1638.1140000 1.5848110

 8) BOMDom\_min\_temperature\_mean\_.50< 18.005 3360 1169.7250000 1.4835510

 16) SatDom\_Reflect\_b5\_min.0>=0.2127 3058 950.5352000 1.4172300

 32) SatDom\_EvapoTrans\_min..70< 0.95 306 40.9912200 0.8553268

 64) SatDom\_NDVI\_var..40< 5.10032e-05 261 16.0463800 0.7411111 \*

 65) SatDom\_NDVI\_var..40>=5.10032e-05 45 1.7921780 1.5177780 \*

 33) SatDom\_EvapoTrans\_min..70>=0.95 2752 802.1862000 1.4797090

 66) METADom\_Fert\_rotation\_minus\_2\_SUPREME< -2.020953e-17 383 65.6054500 1.0118800

 132) SatDom\_FPAR\_max..40< 0.19625 245 23.4084300 0.7825306

 264) METADom\_Chem\_rotation\_minus\_2\_FOR>=-7.784572e-18 211 11.7003100 0.6984834 \*

 265) METADom\_Chem\_rotation\_minus\_2\_FOR< -7.784572e-18 34 0.9678235 1.3041180 \*

 133) SatDom\_FPAR\_max..40>=0.19625 138 6.4301780 1.4190580 \*

 67) METADom\_Fert\_rotation\_minus\_2\_SUPREME>=-2.020953e-17 2369 639.2035000 1.5553440

 134) SatDom\_Reflect\_b5\_mean..10>=0.2395594 2269 548.7863000 1.5167560

 268) SatDom\_Latent\_heat\_mean..50>=808500 1399 265.4293000 1.3566690

 536) BOMDom\_max\_temperature\_mean\_.50>=30.63 184 14.9503500 0.8844565

 1072) SatDom\_red\_band\_mean..80< 0.1870728 89 2.7762880 0.6688764 \*

 1073) SatDom\_red\_band\_mean..80>=0.1870728 95 4.1627830 1.0864210 \*

 537) BOMDom\_max\_temperature\_mean\_.50< 30.63 1215 203.2363000 1.4281810

 1074) SatDom\_Reflect\_b7\_var..30< 0.0001520474 810 104.2687000 1.3013210

 2148) SatDom\_Pot\_latent\_heat\_mean..50< 1.398506e+07 541 46.0315500 1.1697040

 4296) SatDom\_NDVI\_var..80>=7.160867e-06 118 7.3777760 0.9132203 \*

 4297) SatDom\_NDVI\_var..80< 7.160867e-06 423 28.7258400 1.2412530

 8594) METADom\_Chem\_rotation\_minus\_2\_ESTERCIDE>=-5.937091e-17 380 17.4413000 1.1935530 \*

 8595) METADom\_Chem\_rotation\_minus\_2\_ESTERCIDE< -5.937091e-17 43 2.7790650 1.6627910 \*

 2149) SatDom\_Pot\_latent\_heat\_mean..50>=1.398506e+07 269 30.0174400 1.5660220

 4298) SatDom\_Emis32\_var..30>=9.546667e-07 162 13.9477700 1.4067280 \*

 4299) SatDom\_Emis32\_var..30< 9.546667e-07 107 5.7353590 1.8071960 \*

 1075) SatDom\_Reflect\_b7\_var..30>=0.0001520474 405 59.8604400 1.6819010

 2150) METADom\_Fert\_rotation\_minus\_1\_AMMONIUMNITRATE>=-5.303917e-17 302 27.2359500 1.5649340

 4300) SatDom\_Reflect\_b4\_min..20< 0.08055 79 11.1115700 1.2850630 \*

 4301) SatDom\_Reflect\_b4\_min..20>=0.08055 223 7.7443870 1.6640810 \*

 2151) METADom\_Fert\_rotation\_minus\_1\_AMMONIUMNITRATE< -5.303917e-17 103 16.3781700 2.0248540 \*

 269) SatDom\_Latent\_heat\_mean..50< 808500 870 189.8496000 1.7741840

 538) SatDom\_GPP..50< 0.2759063 81 9.1521580 1.0817280 \*

 539) SatDom\_GPP..50>=0.2759063 789 137.8711000 1.8452720

 1078) METADom\_Fert\_rotation\_minus\_1\_AP< -1.593777e-17 657 98.5259800 1.7614160

 2156) SatDom\_LST\_night\_var..30>=2.654634 549 63.1868200 1.6907100

 4312) SatDom\_Reflect\_b6\_var.0< 2.134355e-05 27 1.1340070 1.0081480 \*

 4313) SatDom\_Reflect\_b6\_var.0>=2.134355e-05 522 48.8231100 1.7260150 \*

 2157) SatDom\_LST\_night\_var..30< 2.654634 108 18.6430200 2.1208330 \*

 1079) METADom\_Fert\_rotation\_minus\_1\_AP>=-1.593777e-17 132 11.7299700 2.2626520 \*

 135) SatDom\_Reflect\_b5\_mean..10< 0.2395594 100 10.3788200 2.4309000 \*

 17) SatDom\_Reflect\_b5\_min.0< 0.2127 302 69.5439500 2.1550990

 34) METADom\_Fert\_rotation\_minus\_1\_DAP< 0.1109129 182 22.8097700 1.8715380

 68) SatDom\_Pot\_EvapoTrans\_min..70>=60.925 26 1.7235120 1.3073080 \*

 69) SatDom\_Pot\_EvapoTrans\_min..70< 60.925 156 11.4294500 1.9655770 \*

 35) METADom\_Fert\_rotation\_minus\_1\_DAP>=0.1109129 120 9.9051970 2.5851670 \*

 9) BOMDom\_min\_temperature\_mean\_.50>=18.005 706 269.9725000 2.0667280

 18) SatDom\_EvapoTrans\_min..60< 1.075 144 16.6063300 1.2368060

 36) METADom\_Fert\_rotation\_minus\_2\_DAP< 0.06941086 37 1.0722270 0.8178378 \*

 37) METADom\_Fert\_rotation\_minus\_2\_DAP>=0.06941086 107 6.7934970 1.3816820 \*

 19) SatDom\_EvapoTrans\_min..60>=1.075 562 128.7697000 2.2793770

 38) SatDom\_LST\_night\_max..50< 41.45 190 34.6989600 1.9360000

 76) METADom\_Fert\_rotation\_minus\_1\_MAP>=0.2895969 149 17.2671900 1.8002680 \*

 77) METADom\_Fert\_rotation\_minus\_1\_MAP< 0.2895969 41 4.7108780 2.4292680 \*

 39) SatDom\_LST\_night\_max..50>=41.45 372 60.2260800 2.4547580

 78) SatDom\_Emis32\_mean..50< 0.9867 280 33.9223000 2.3500360 \*

 79) SatDom\_Emis32\_mean..50>=0.9867 92 13.8874900 2.7734780 \*

 5) SatDom\_GPP\_mean..50>=0.009111875 5182 2402.8160000 2.0478040

 10) SatDom\_PsnNet\_var..60< 6.823516e-07 2196 1035.0130000 1.8376320

 20) SatDom\_Pot\_latent\_heat\_mean..20>=1432419 1922 785.7791000 1.7334340

 40) SatDom\_PsnNet\_mean..30>=0.006528125 1757 617.4272000 1.6502450

 80) METADom\_Chem\_rotation\_minus\_2\_AVADEX< 0.03841744 1370 370.4852000 1.5204740

 160) SatDom\_FPAR\_var..40>=0.001127639 292 32.4270700 0.9876370

 320) METADom\_Fert\_rotation\_minus\_2\_PLAIN< 0.001701985 154 2.9357850 0.7429221 \*

 321) METADom\_Fert\_rotation\_minus\_2\_PLAIN>=0.001701985 138 9.9773280 1.2607250 \*

 161) SatDom\_FPAR\_var..40< 0.001127639 1078 232.6985000 1.6648050

 322) SatDom\_LAI\_mean..30< 0.33375 706 93.0386500 1.4850420

 644) METADom\_Chem\_rotation\_minus\_2\_TOPIC< -4.466913e-18 99 9.7501780 0.9511111 \*

 645) METADom\_Chem\_rotation\_minus\_2\_TOPIC>=-4.466913e-18 607 50.4621600 1.5721250

 1290) SatDom\_LST\_night\_var..20>=4.361125 197 8.6035800 1.3525890 \*

 1291) SatDom\_LST\_night\_var..20< 4.361125 410 27.8018600 1.6776100 \*

 323) SatDom\_LAI\_mean..30>=0.33375 372 73.5479500 2.0059680

 646) SatDom\_FPAR..80>=1.94125 277 34.3525800 1.8366430

 1292) METADom\_Fert\_rotation\_minus\_2\_TWENTY\_SEVEN\_TO\_TWELVE< 0.01666667 96 6.6163660 1.5465630 \*

 1293) METADom\_Fert\_rotation\_minus\_2\_TWENTY\_SEVEN\_TO\_TWELVE>=0.01666667 181 15.3736600 1.9904970 \*

 647) SatDom\_FPAR..80< 1.94125 95 8.0966910 2.4996840 \*

 81) METADom\_Chem\_rotation\_minus\_2\_AVADEX>=0.03841744 387 142.1973000 2.1096380

 162) SatDom\_blue\_band\_var.0< 2.068216e-07 68 6.0959220 1.1583820 \*

 163) SatDom\_blue\_band\_var.0>=2.068216e-07 319 61.4524400 2.3124140

 326) SatDom\_MIR\_min..10< 0.2271406 216 30.6483400 2.1455090 \*

 327) SatDom\_MIR\_min..10>=0.2271406 103 12.1684900 2.6624270 \*

 41) SatDom\_PsnNet\_mean..30< 0.006528125 165 26.7155100 2.6192730

 82) SatDom\_Latent\_heat\_var..70>=7.947795e+09 115 14.1950000 2.4700000 \*

 83) SatDom\_Latent\_heat\_var..70< 7.947795e+09 50 4.0643620 2.9626000 \*

 21) SatDom\_Pot\_latent\_heat\_mean..20< 1432419 274 81.9882200 2.5685400

 42) SatDom\_red\_band\_min.0>=0.102325 101 12.6809000 2.0445540 \*

 43) SatDom\_red\_band\_min.0< 0.102325 173 25.3870700 2.8744510 \*

 11) SatDom\_PsnNet\_var..60>=6.823516e-07 2986 1199.4620000 2.2023710

 22) METADom\_Chem\_rotation\_minus\_2\_CADENCE< 0.005275474 1796 532.1315000 2.0095160

 44) SatDom\_FPAR\_var..20< 0.0003362847 791 159.9405000 1.7720860

 88) METADom\_Chem\_rotation\_minus\_2\_BRODAL< 0.05726167 711 87.8259500 1.6764140

 176) SatDom\_MIR\_var..20>=1.75091e-05 520 40.1918300 1.5558460 \*

 177) SatDom\_MIR\_var..20< 1.75091e-05 191 19.4957500 2.0046600 \*

 89) METADom\_Chem\_rotation\_minus\_2\_BRODAL>=0.05726167 80 7.7672490 2.6223750 \*

 45) SatDom\_FPAR\_var..20>=0.0003362847 1005 292.5042000 2.1963880

 90) SatDom\_Reflect\_b7\_max..40< 0.187425 76 11.4792900 1.3096050 \*

 91) SatDom\_Reflect\_b7\_max..40>=0.187425 929 216.3704000 2.2689340

 182) SatDom\_LST\_day\_var..30< 7.240234 595 100.0143000 2.0999160

 364) BOMDom\_solar\_exposure\_min\_.70>=7.45 280 35.0827600 1.8562500

 728) SatDom\_Reflect\_b5\_max..40>=0.3351125 165 16.9576300 1.7042420 \*

 729) SatDom\_Reflect\_b5\_max..40< 0.3351125 115 8.8424260 2.0743480 \*

 365) BOMDom\_solar\_exposure\_min\_.70< 7.45 315 33.5297600 2.3165080

 730) BOMDom\_rainfall\_max\_.30>=3.8 98 6.1459030 2.0762240 \*

 731) BOMDom\_rainfall\_max\_.30< 3.8 217 19.1704200 2.4250230 \*

 183) SatDom\_LST\_day\_var..30>=7.240234 334 69.0787000 2.5700300

 366) SatDom\_FPAR\_var..20>=0.001281597 186 24.0195500 2.3105380 \*

 367) SatDom\_FPAR\_var..20< 0.001281597 148 16.7943000 2.8961490 \*

 23) METADom\_Chem\_rotation\_minus\_2\_CADENCE>=0.005275474 1190 499.7158000 2.4934370

 46) METADom\_pH\_CaCl2\_60cm.test\_60cm>=7.042779 416 115.1026000 1.9660340

 92) METADom\_Chem\_rotation\_minus\_2\_SIMAZINE>=0.06443296 71 15.9907000 1.2539440 \*

 93) METADom\_Chem\_rotation\_minus\_2\_SIMAZINE< 0.06443296 345 55.7006000 2.1125800

 186) METADom\_ESP\_60cm.test\_60cm>=5.840898 220 21.5730900 1.9763640 \*

 187) METADom\_ESP\_60cm.test\_60cm< 5.840898 125 22.8610300 2.3523200 \*

 47) METADom\_pH\_CaCl2\_60cm.test\_60cm< 7.042779 774 206.7096000 2.7768990

 94) SatDom\_Latent\_heat\_min..50< 966875 250 31.4640500 2.3850000

 188) BOMDom\_rainfall\_max\_.10>=8.5 152 13.0204100 2.2269740 \*

 189) BOMDom\_rainfall\_max\_.10< 8.5 98 8.7604990 2.6301020 \*

 95) SatDom\_Latent\_heat\_min..50>=966875 524 118.5304000 2.9638740

 190) SatDom\_EvapoTrans\_min..30< 9218.803 476 76.0347800 2.8915340

 380) SatDom\_MIR\_var..10>=1.563077e-05 217 40.4519800 2.7189860 \*

 381) SatDom\_MIR\_var..10< 1.563077e-05 259 23.7091600 3.0361000 \*

 191) SatDom\_EvapoTrans\_min..30>=9218.803 48 15.3025200 3.6812500 \*

 3) METADom\_Nitrogen\_fert\_repeat\_2>=2.37367 5073 2649.2330000 2.3267810

 6) METADom\_Chem\_rotation\_minus\_2\_AGRITONE< 0.002960825 3158 1651.6420000 2.1360960

 12) SatDom\_EvapoTrans..50>=86193.57 1023 342.2463000 1.6764810

 24) SatDom\_Reflect\_b6\_min..10>=0.3428187 280 49.3564600 1.0938930

 48) SatDom\_EVI\_var..50>=7.345966e-07 185 11.4131900 0.8545405 \*

 49) SatDom\_EVI\_var..50< 7.345966e-07 95 6.7054000 1.5600000 \*

 25) SatDom\_Reflect\_b6\_min..10< 0.3428187 743 162.0416000 1.8960300

 50) METADom\_Fert\_rotation\_minus\_1\_Z>=-2.276825e-17 609 86.8809500 1.7715440

 100) BOMDom\_min\_temperature\_var\_.30>=6.268222 464 46.9399900 1.6726290

 200) SatDom\_EvapoTrans..20< 686239.7 327 25.8587800 1.5629360 \*

 201) SatDom\_EvapoTrans..20>=686239.7 137 7.7549840 1.9344530 \*

 101) BOMDom\_min\_temperature\_var\_.30< 6.268222 145 20.8738600 2.0880690 \*

 51) METADom\_Fert\_rotation\_minus\_1\_Z< -2.276825e-17 134 22.8315700 2.4617910 \*

 13) SatDom\_EvapoTrans..50< 86193.57 2135 989.7436000 2.3563230

 26) METADom\_Chem\_rotation\_minus\_2\_SPINREPORTED\_NAKER< -3.009745e-17 234 38.0348200 1.5253420

 52) BOMDom\_solar\_exposure\_var\_.70>=61.68989 32 1.7894000 0.7525000 \*

 53) BOMDom\_solar\_exposure\_var\_.70< 61.68989 202 14.1045000 1.6477720 \*

 27) METADom\_Chem\_rotation\_minus\_2\_SPINREPORTED\_NAKER>=-3.009745e-17 1901 770.2349000 2.4586110

 54) SatDom\_Reflect\_b3\_var..40< 1.86612e-07 135 24.1199900 1.4877040

 108) SatDom\_EVI\_max..20< 0.1564281 78 2.3334990 1.1832050 \*

 109) SatDom\_EVI\_max..20>=0.1564281 57 4.6578040 1.9043860 \*

 55) SatDom\_Reflect\_b3\_var..40>=1.86612e-07 1766 609.1274000 2.5328310

 110) SatDom\_Reflect\_b1\_var.0< 0.000140493 1510 428.9337000 2.4305960

 220) SatDom\_blue\_band\_var..40< 1.375977e-07 213 32.2526900 1.8309860 \*

 221) SatDom\_blue\_band\_var..40>=1.375977e-07 1297 307.5242000 2.5290670

 442) BOMDom\_min\_temperature\_var\_.30>=5.937778 999 214.3512000 2.4076780

 884) SatDom\_LAI\_var..40< 0.001753472 549 98.2622600 2.2083240

 1768) METADom\_Fert\_rotation\_minus\_2\_THIRTY\_TWO\_TO\_TEN>=0.002174436 28 8.0850430 1.1564290 \*

 1769) METADom\_Fert\_rotation\_minus\_2\_THIRTY\_TWO\_TO\_TEN< 0.002174436 521 57.5306100 2.2648560

 3538) SatDom\_LST\_day\_min..40>=49.69 112 8.0310990 1.9399110 \*

 3539) SatDom\_LST\_day\_min..40< 49.69 409 34.4350700 2.3538390 \*

 885) SatDom\_LAI\_var..40>=0.001753472 450 67.6524400 2.6508890

 1770) SatDom\_EvapoTrans\_min.0< 8.125 353 41.5679000 2.5699150 \*

 1771) SatDom\_EvapoTrans\_min.0>=8.125 97 15.3469900 2.9455670 \*

 443) BOMDom\_min\_temperature\_var\_.30< 5.937778 298 29.1035500 2.9360070 \*

 111) SatDom\_Reflect\_b1\_var.0>=0.000140493 256 71.3186100 3.1358590

 222) SatDom\_blue\_band..20>=4.573588 142 25.0118500 2.8386620

 444) SatDom\_NIR..30>=16.89849 27 0.9301407 2.2114810 \*

 445) SatDom\_NIR..30< 16.89849 115 10.9675800 2.9859130 \*

 223) SatDom\_blue\_band..20< 4.573588 114 18.1415200 3.5060530 \*

 7) METADom\_Chem\_rotation\_minus\_2\_AGRITONE>=0.002960825 1915 693.4022000 2.6412380

 14) SatDom\_NIR\_var..40< 0.0001116116 1711 486.5761000 2.5473060

 28) BOMDom\_min\_temperature\_var\_0>=3.662944 1220 275.1293000 2.4146150

 56) SatDom\_Reflect\_b5\_var..70< 0.0003999032 938 182.5817000 2.3011190

 112) METADom\_Nitrogen\_fert\_repeat\_2>=48.3 86 17.1474500 1.6731400 \*

 113) METADom\_Nitrogen\_fert\_repeat\_2< 48.3 852 128.0961000 2.3645070

 226) METADom\_Chem\_rotation\_minus\_1\_CT>=0.001656319 444 42.0474600 2.2080180

 452) SatDom\_GPP\_mean..60< 0.0093925 116 6.7233540 1.8761210 \*

 453) SatDom\_GPP\_mean..60>=0.0093925 328 18.0269500 2.3253960 \*

 227) METADom\_Chem\_rotation\_minus\_1\_CT< 0.001656319 408 63.3431800 2.5348040

 454) METADom\_Chem\_rotation\_minus\_2\_AVADEX>=0.04340492 214 24.8788900 2.3574300 \*

 455) METADom\_Chem\_rotation\_minus\_2\_AVADEX< 0.04340492 194 24.3046600 2.7304640 \*

 57) SatDom\_Reflect\_b5\_var..70>=0.0003999032 282 40.2755200 2.7921280

 114) METADom\_ATRAZINE>=495 72 4.7749110 2.4161110 \*

 115) METADom\_ATRAZINE< 495 210 21.8303700 2.9210480 \*

 29) BOMDom\_min\_temperature\_var\_0< 3.662944 491 136.5935000 2.8770060

 58) BOMDom\_rainfall\_max\_.20< 2.9 232 37.1458000 2.5276290

 116) BOMDom\_min\_temperature\_min\_.30>=8.85 64 4.4839610 2.1342190 \*

 117) BOMDom\_min\_temperature\_min\_.30< 8.85 168 18.9829500 2.6775000 \*

 59) BOMDom\_rainfall\_max\_.20>=2.9 259 45.7621000 3.1899610

 118) SatDom\_PsnNet\_min..80< 0.0097625 233 26.9616000 3.1046780 \*

 119) SatDom\_PsnNet\_min..80>=0.0097625 26 1.9190350 3.9542310 \*

 15) SatDom\_NIR\_var..40>=0.0001116116 204 65.1113200 3.4290690

 30) SatDom\_red\_band\_var..50>=1.544983e-05 92 21.4240700 3.0005430 \*

 31) SatDom\_red\_band\_var..50< 1.544983e-05 112 12.9154700 3.7810710 \*

**Canola Regression tree: Predicted at End of Season**

**Leaf values indicate node-average yield, in t/Ha**

**Model Accuracy: Missing Site Prediction R2 = 0.19; p<0.0001**

**n= 14321**

**node), split, n, deviance, yval**

 **\* denotes terminal node**

 1) root 14321 7941.3380000 2.0151750

 2) SatDom\_Reflect\_b7\_min\_160>=0.101525 6346 2782.6220000 1.6122390

 4) BOMDom\_rainfall\_csum\_120< 238.45 2365 526.4854000 1.1680850

 8) SatDom\_NDVI\_min..30< 0.2051 952 147.1319000 0.8906933

 16) SatDom\_PsnNet\_180< 8.590025 468 22.9458900 0.6551496

 32) SatDom\_LST\_day\_min\_150>=37.89 412 13.2266400 0.6037379 \*

 33) SatDom\_LST\_day\_min\_150< 37.89 56 0.6184554 1.0333930 \*

 17) SatDom\_PsnNet\_180>=8.590025 484 73.1143400 1.1184500

 34) SatDom\_Pot\_EvapoTrans\_var\_120>=2.637609 260 15.4884800 0.8462692

 68) SatDom\_FPAR\_mean\_80< 0.6495 182 4.0871870 0.7275275 \*

 69) SatDom\_FPAR\_mean\_80>=0.6495 78 2.8475330 1.1233330 \*

 35) SatDom\_Pot\_EvapoTrans\_var\_120< 2.637609 224 16.0073100 1.4343750 \*

 9) SatDom\_NDVI\_min..30>=0.2051 1413 256.7475000 1.3549750

 18) METADom\_Chemicals\_time\_Chemicals\_PYRASULFOTOLE< 63.80805 1201 150.9780000 1.2688260

 36) METADom\_Chem\_rotation\_minus\_1\_ECLIPSE>=-3.590878e-17 985 95.4792100 1.1825280

 72) SatDom\_Reflect\_b6\_mean\_140>=0.2153238 491 35.9568700 1.0156420

 144) BOMDom\_max\_temperature\_mean\_20< 20.695 443 22.4228800 0.9663431 \*

 145) BOMDom\_max\_temperature\_mean\_20>=20.695 48 2.5208810 1.4706250 \*

 73) SatDom\_Reflect\_b6\_mean\_140< 0.2153238 494 32.2556400 1.3484010

 146) SatDom\_NDVI\_var\_120>=4.851037e-05 224 7.9822210 1.2008930 \*

 147) SatDom\_NDVI\_var\_120< 4.851037e-05 270 15.3559400 1.4707780 \*

 37) METADom\_Chem\_rotation\_minus\_1\_ECLIPSE< -3.590878e-17 216 14.7113000 1.6623610 \*

 19) METADom\_Chemicals\_time\_Chemicals\_PYRASULFOTOLE>=63.80805 212 46.3604700 1.8430190

 38) METADom\_Chem\_rotation\_minus\_1\_ESTERCIDE< -1.483189e-17 103 20.6900700 1.5779610 \*

 39) METADom\_Chem\_rotation\_minus\_1\_ESTERCIDE>=-1.483189e-17 109 11.5960800 2.0934860 \*

 5) BOMDom\_rainfall\_csum\_120>=238.45 3981 1512.4200000 1.8760990

 10) SatDom\_NDVI\_mean\_140< 0.6541383 2621 840.8975000 1.7005040

 20) SatDom\_Latent\_heat\_mean..80< 1458125 1788 438.8148000 1.5473320

 40) BOMDom\_rainfall\_mean\_90< 3.695 1649 317.5459000 1.4815950

 80) SatDom\_MIR\_var\_50< 0.0002181144 1522 242.7728000 1.4314060

 160) SatDom\_Reflect\_b1\_var..30< 4.898313e-05 731 98.3253600 1.2624080

 320) SatDom\_Latent\_heat\_var..70>=6.112759e+10 110 4.3789670 0.8014545 \*

 321) SatDom\_Latent\_heat\_var..70< 6.112759e+10 621 66.4337700 1.3440580

 642) SatDom\_Pot\_EvapoTrans\_min..30< 43.49375 495 39.2560800 1.2628480

 1284) SatDom\_Emis31\_mean\_80< 0.98325 234 16.5273500 1.1008120 \*

 1285) SatDom\_Emis31\_mean\_80>=0.98325 261 11.0765800 1.4081230 \*

 643) SatDom\_Pot\_EvapoTrans\_min..30>=43.49375 126 11.0882900 1.6630950 \*

 161) SatDom\_Reflect\_b1\_var..30>=4.898313e-05 791 104.2757000 1.5875850

 322) BOMDom\_max\_temperature\_csum\_150>=5680.7 131 9.3261600 1.1718320 \*

 323) BOMDom\_max\_temperature\_csum\_150< 5680.7 660 67.8116900 1.6701060

 646) SatDom\_Reflect\_b2\_max..10< 0.2565125 524 37.9986500 1.5917750 \*

 647) SatDom\_Reflect\_b2\_max..10>=0.2565125 136 14.2101000 1.9719120 \*

 81) SatDom\_MIR\_var\_50>=0.0002181144 127 24.9941000 2.0830710

 162) BOMDom\_max\_temperature\_mean\_.70< 36.68 85 8.1858750 1.8722350 \*

 163) BOMDom\_max\_temperature\_mean\_.70>=36.68 42 5.3830980 2.5097620 \*

 41) BOMDom\_rainfall\_mean\_90>=3.695 139 29.6052100 2.3271940

 82) SatDom\_blue\_band\_min\_120< 0.0323 100 8.3904510 2.1043000 \*

 83) SatDom\_blue\_band\_min\_120>=0.0323 39 3.5076360 2.8987180 \*

 21) SatDom\_Latent\_heat\_mean..80>=1458125 833 270.0916000 2.0292800

 42) SatDom\_Reflect\_b5\_var\_80< 0.0007440978 744 157.3116000 1.9135220

 84) BOMDom\_rainfall\_mean\_110< 1.46 439 53.5341900 1.7078590

 168) BOMDom\_max\_temperature\_min\_190< 21.15 222 15.7238500 1.4987390 \*

 169) BOMDom\_max\_temperature\_min\_190>=21.15 217 18.1700000 1.9217970 \*

 85) BOMDom\_rainfall\_mean\_110>=1.46 305 58.4825400 2.2095410

 170) SatDom\_Reflect\_b2\_var..20< 4.692235e-05 163 27.3474600 1.9852760 \*

 171) SatDom\_Reflect\_b2\_var..20>=4.692235e-05 142 13.5266000 2.4669720 \*

 43) SatDom\_Reflect\_b5\_var\_80>=0.0007440978 89 19.4692800 2.9969660

 86) METADom\_SIMAZINE>=24.91009 51 3.3701690 2.7207840 \*

 87) METADom\_SIMAZINE< 24.91009 38 6.9880870 3.3676320 \*

 11) SatDom\_NDVI\_mean\_140>=0.6541383 1360 434.9601000 2.2145070

 22) SatDom\_MixClouds\_140< 5 1200 287.7606000 2.1067750

 44) BOMDom\_max\_temperature\_min\_40< 13.15 666 100.7379000 1.8850000

 88) METADom\_Chem\_rotation\_minus\_1\_CT>=0.004405336 169 15.3988600 1.5214200 \*

 89) METADom\_Chem\_rotation\_minus\_1\_CT< 0.004405336 497 55.4022700 2.0086320

 178) SatDom\_Latent\_heat\_min\_130>=4654893 250 18.9106500 1.8648800 \*

 179) SatDom\_Latent\_heat\_min\_130< 4654893 247 26.0965900 2.1541300 \*

 45) BOMDom\_max\_temperature\_min\_40>=13.15 534 113.4123000 2.3833710

 90) SatDom\_LAI\_var\_80< 0.04458333 299 39.5528700 2.1251170

 180) SatDom\_EVI\_var\_190>=2.701217e-05 78 5.6845850 1.6876920 \*

 181) SatDom\_EVI\_var\_190< 2.701217e-05 221 13.6762500 2.2795020 \*

 91) SatDom\_LAI\_var\_80>=0.04458333 235 28.5449000 2.7119570

 182) SatDom\_Reflect\_b2\_max\_80< 0.435225 172 11.2917000 2.5731400 \*

 183) SatDom\_Reflect\_b2\_max\_80>=0.435225 63 4.8895430 3.0909520 \*

 23) SatDom\_MixClouds\_140>=5 160 28.8156000 3.0225000 \*

 3) SatDom\_Reflect\_b7\_min\_160< 0.101525 7975 3308.5340000 2.3358060

 6) SatDom\_GPP\_max\_170< 0.05075 4487 1738.3760000 2.1502630

 12) SatDom\_Reflect\_b7\_mean\_50>=0.077815 4162 1386.1280000 2.0897570

 24) SatDom\_EvapoTrans\_min\_140< 11.0875 252 66.6454600 1.2646030

 48) SatDom\_Reflect\_b5\_var\_150< 4.28242e-05 131 10.6508700 0.8748855 \*

 49) SatDom\_Reflect\_b5\_var\_150>=4.28242e-05 121 14.5577400 1.6865290 \*

 25) SatDom\_EvapoTrans\_min\_140>=11.0875 3910 1136.8430000 2.1429390

 50) SatDom\_Reflect\_b5\_min..60< 0.3986812 3801 1014.0490000 2.1146590

 100) SatDom\_Pot\_EvapoTrans..20>=3196.812 3535 864.9076000 2.0663000

 200) SatDom\_MIR\_var\_120>=6.574132e-06 1243 233.4713000 1.8322530

 400) SatDom\_NDVI\_var\_100< 0.0001963981 803 110.6459000 1.6887050

 800) SatDom\_Reflect\_b1\_var\_120< 8.005453e-05 623 57.9988600 1.5797590

 1600) SatDom\_Latent\_heat\_min\_60< 1818750 214 13.6269300 1.3508880 \*

 1601) SatDom\_Latent\_heat\_min\_60>=1818750 409 27.2969000 1.6995110 \*

 801) SatDom\_Reflect\_b1\_var\_120>=8.005453e-05 180 19.6593900 2.0657780 \*

 401) SatDom\_NDVI\_var\_100>=0.0001963981 440 76.0813400 2.0942270

 802) SatDom\_Reflect\_b2..20>=15.29957 376 49.1128300 2.0018350

 1604) BOMDom\_min\_temperature\_var\_.30>=18.90472 54 2.0670150 1.6181480 \*

 1605) BOMDom\_min\_temperature\_var\_.30< 18.90472 322 37.7630000 2.0661800 \*

 803) SatDom\_Reflect\_b2..20< 15.29957 64 4.9021360 2.6370310 \*

 201) SatDom\_MIR\_var\_120< 6.574132e-06 2292 526.4209000 2.1932290

 402) SatDom\_Reflect\_b2\_min\_70< 0.273725 1043 199.3498000 1.9753400

 804) SatDom\_MIR\_mean\_190>=0.2400412 280 25.6387700 1.6065000

 1608) SatDom\_Reflect\_b2\_min\_130>=0.4367 59 2.7774580 1.2291530 \*

 1609) SatDom\_Reflect\_b2\_min\_130< 0.4367 221 12.2174200 1.7072400 \*

 805) SatDom\_MIR\_mean\_190< 0.2400412 763 121.6401000 2.1106950

 1610) SatDom\_Reflect\_b6\_max\_30>=0.2738375 328 29.1514200 1.8592680 \*

 1611) SatDom\_Reflect\_b6\_max\_30< 0.2738375 435 56.1197700 2.3002760

 3222) SatDom\_Emis31\_var\_170>=9.166667e-07 81 4.1131800 1.9295060 \*

 3223) SatDom\_Emis31\_var\_170< 9.166667e-07 354 38.3236500 2.3851130 \*

 403) SatDom\_Reflect\_b2\_min\_70>=0.273725 1249 236.2046000 2.3751800

 806) SatDom\_Reflect\_b3\_mean..70>=0.09519563 157 13.7446200 1.8586620 \*

 807) SatDom\_Reflect\_b3\_mean..70< 0.09519563 1092 174.5518000 2.4494410

 1614) SatDom\_LAI\_var\_70>=0.03236458 808 92.6673200 2.3476980

 3228) SatDom\_Pot\_EvapoTrans\_mean..40>=42.25625 639 57.5126600 2.2736780 \*

 3229) SatDom\_Pot\_EvapoTrans\_mean..40< 42.25625 169 18.4157100 2.6275740 \*

 1615) SatDom\_LAI\_var\_70< 0.03236458 284 49.7235600 2.7389080

 3230) METADom\_Chem\_rotation\_minus\_2\_ROUNDUP\_READY>=-8.586881e-18 130 14.8366000 2.5001540 \*

 3231) METADom\_Chem\_rotation\_minus\_2\_ROUNDUP\_READY< -8.586881e-18 154 21.2208700 2.9404550 \*

 101) SatDom\_Pot\_EvapoTrans..20< 3196.812 266 31.0094000 2.7573310

 202) SatDom\_LST\_day\_var\_80< 1.627956 103 8.1497690 2.5152430 \*

 203) SatDom\_LST\_day\_var\_80>=1.627956 163 13.0086800 2.9103070 \*

 51) SatDom\_Reflect\_b5\_min..60>=0.3986812 109 13.7537100 3.1290830 \*

 13) SatDom\_Reflect\_b7\_mean\_50< 0.077815 325 141.8863000 2.9251080

 26) BOMDom\_solar\_exposure\_var\_90< 7.378056 234 42.3384400 2.6077780

 52) METADom\_Crop\_rotation\_minus\_2\_sub\_cropWheat< 0.5 149 19.5495900 2.4108720 \*

 53) METADom\_Crop\_rotation\_minus\_2\_sub\_cropWheat>=0.5 85 6.8851650 2.9529410 \*

 27) BOMDom\_solar\_exposure\_var\_90>=7.378056 91 15.3928900 3.7410990 \*

 7) SatDom\_GPP\_max\_170>=0.05075 3488 1216.9760000 2.5744900

 14) SatDom\_Latent\_heat..30< 5.10637e+07 713 220.9346000 2.1295650

 28) SatDom\_Emis31\_var\_70>=5.012346e-07 438 87.3550800 1.8387210

 56) SatDom\_EvapoTrans\_min..80>=1.49375 337 46.4575200 1.6855490

 112) BOMDom\_Longitude< 138.6855 30 1.2493870 1.1093330 \*

 113) BOMDom\_Longitude>=138.6855 307 34.2740400 1.7418570 \*

 57) SatDom\_EvapoTrans\_min..80< 1.49375 101 6.6093960 2.3498020 \*

 29) SatDom\_Emis31\_var\_70< 5.012346e-07 275 37.5177400 2.5928000 \*

 15) SatDom\_Latent\_heat..30>=5.10637e+07 2775 818.6330000 2.6888070

 30) SatDom\_Reflect\_b7\_var..80>=5.860573e-07 2706 694.3568000 2.6560680

 60) SatDom\_Reflect\_b2\_var\_100>=0.000288405 1113 273.2305000 2.4432260

 120) SatDom\_PsnNet\_var\_60>=6.860156e-08 904 169.8778000 2.3167040

 240) BOMDom\_max\_temperature\_min\_30>=15.1 184 21.4571900 1.9597830 \*

 241) BOMDom\_max\_temperature\_min\_30< 15.1 720 118.9901000 2.4079170

 482) SatDom\_Reflect\_b7\_var\_60< 6.300942e-05 322 50.0923300 2.2168630

 964) METADom\_SIMAZINE>=510 52 9.3793440 1.8567310 \*

 965) METADom\_SIMAZINE< 510 270 32.6699500 2.2862220 \*

 483) SatDom\_Reflect\_b7\_var\_60>=6.300942e-05 398 47.6352400 2.5624870 \*

 121) SatDom\_PsnNet\_var\_60< 6.860156e-08 209 26.2891500 2.9904780 \*

 61) SatDom\_Reflect\_b2\_var\_100< 0.000288405 1593 335.4769000 2.8047770

 122) METADom\_Chem\_rotation\_minus\_2\_GOLD< 0.0186494 820 135.4067000 2.6176950

 244) SatDom\_Reflect\_b6\_max\_140< 0.204 568 64.3968400 2.4973590

 488) SatDom\_Reflect\_b7\_min\_60< 0.066975 127 10.2230000 2.2200000 \*

 489) SatDom\_Reflect\_b7\_min\_60>=0.066975 441 41.5904200 2.5772340 \*

 245) SatDom\_Reflect\_b6\_max\_140>=0.204 252 44.2458100 2.8889290 \*

 123) METADom\_Chem\_rotation\_minus\_2\_GOLD>=0.0186494 773 140.9257000 3.0032340

 246) BOMDom\_rainfall\_csum\_100>=246.5 697 100.6532000 2.9355810

 492) SatDom\_EVI\_var\_150>=0.0001223555 328 46.9338800 2.8033230 \*

 493) SatDom\_EVI\_var\_150< 0.0001223555 369 42.8819500 3.0531440 \*

 247) BOMDom\_rainfall\_csum\_100< 246.5 76 7.8255680 3.6236840 \*

 31) SatDom\_Reflect\_b7\_var..80< 5.860573e-07 69 7.6279770 3.9727540 \*