**Table S1**. Nei’s similarity and genetic distance (Nei, 1978) among 50 biotypes of *Conyza sumatrensis* in soybean fields of Southern (samples 1-45), southeast (samples 46, 47), and midwestern (48-50) of Brazil using microsatellite markers.

  **1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50**

===========================================================================================================================================================================================================================================================================================================================================================================================

1 **\*\*\*\* 0.4052 0.4878 0.7740 0.5335 0.4435 0.5740 0.3553 0.8047 0.5451 0.2602 0.4333 0.3771 0.5069 0.4668 0.5038 0.5818 0.4149 0.4129 0.6210 0.4854 0.5813 0.3693 0.5739 0.4508 0.5239 0.1644 0.5552 0.5251 0.4380 0.4670 0.5968 0.6665 0.5341 0.2637 0.3986 0.4172 0.3368 0.3516 0.3079 0.4798 0.4220 0.3797 0.2246 0.2738 0.4103 0.3799 0.2817 0.5114 0.4129**

**2 0.9035 \*\*\*\* 0.8451 0.5740 0.7087 0.7497 0.7156 0.8506 0.7659 0.9153 0.4510 0.5233 0.4485 0.4371 0.2686 0.5941 0.6643 0.4827 0.6643 0.5329 0.5725 0.6146 0.5683 0.4992 0.4716 0.4405 0.5062 0.4986 0.4511 0.4584 0.4023 0.4319 0.5165 0.5387 0.5123 0.5339 0.4062 0.5172 0.4013 0.4221 0.5195 0.4741 0.4941 0.2601 0.2988 0.4983 0.3811 0.2766 0.8265 0.6790**

**3 0.7179 0.1683 \*\*\*\* 0.6414 0.8389 0.8124 0.7826 0.8135 0.7076 0.7470 0.5240 0.5499 0.4685 0.5920 0.4342 0.7174 0.6241 0.4818 0.6830 0.6180 0.6837 0.5653 0.5794 0.4735 0.6418 0.5103 0.5737 0.6188 0.5758 0.5626 0.6408 0.6273 0.6279 0.6871 0.6617 0.5092 0.5326 0.5222 0.3970 0.3413 0.5333 0.4981 0.4597 0.3980 0.4492 0.3543 0.3902 0.4033 0.8180 0.6985**

**4 0.2562 0.5551 0.4441 \*\*\*\* 0.5212 0.6614 0.8627 0.5821 0.6908 0.6739 0.3967 0.6621 0.6171 0.7068 0.6754 0.6406 0.7136 0.5145 0.5465 0.7212 0.7282 0.6807 0.5780 0.7037 0.5582 0.7094 0.4454 0.6731 0.7386 0.5772 0.6398 0.7326 0.8293 0.6567 0.4724 0.5011 0.5474 0.5727 0.5157 0.3963 0.6236 0.6146 0.4256 0.3330 0.4943 0.5301 0.4309 0.5176 0.6646 0.5536**

**5 0.6283 0.3443 0.1757 0.6517 \*\*\*\* 0.7256 0.6925 0.6007 0.6857 0.7092 0.6158 0.5937 0.4531 0.6395 0.3208 0.6201 0.5350 0.6007 0.6783 0.6361 0.5025 0.5986 0.4774 0.5403 0.6923 0.5335 0.4120 0.5296 0.5277 0.5094 0.5076 0.5699 0.6365 0.5760 0.5442 0.5303 0.3465 0.3972 0.4183 0.4308 0.4493 0.3776 0.4247 0.3577 0.3791 0.3648 0.5228 0.2736 0.6682 0.7290**

**6 0.8132 0.2880 0.2077 0.4133 0.3208 \*\*\*\* 0.8413 0.6974 0.6499 0.7481 0.4652 0.5625 0.4882 0.5658 0.4883 0.5882 0.5172 0.4185 0.5599 0.5682 0.4934 0.4996 0.4843 0.3971 0.4055 0.5081 0.4735 0.5524 0.7105 0.5050 0.6052 0.6472 0.6253 0.6581 0.5552 0.5028 0.3727 0.4790 0.4136 0.3158 0.3829 0.5138 0.3647 0.3307 0.4704 0.4365 0.4248 0.4107 0.7064 0.6082**

**7 0.5552 0.3347 0.2452 0.1477 0.3674 0.1729 \*\*\*\* 0.7429 0.6447 0.7282 0.4905 0.8421 0.7698 0.7765 0.6821 0.7200 0.6428 0.6324 0.7047 0.8080 0.7520 0.7922 0.7137 0.7738 0.6694 0.7157 0.6910 0.6773 0.8204 0.6178 0.7056 0.8021 0.7776 0.7837 0.7662 0.6980 0.5572 0.7244 0.6487 0.5320 0.6633 0.7233 0.4948 0.4999 0.6520 0.6004 0.5489 0.6669 0.7486 0.6489**

**8 1.0347 0.1618 0.2064 0.5410 0.5097 0.3605 0.2972 \*\*\*\* 0.6297 0.7415 0.5400 0.5852 0.5805 0.5071 0.3428 0.6614 0.6636 0.4243 0.5710 0.5814 0.6835 0.6194 0.5268 0.5088 0.5240 0.4322 0.6548 0.5194 0.5067 0.5203 0.5521 0.4848 0.4940 0.6622 0.6148 0.6276 0.4884 0.5654 0.3385 0.3934 0.5247 0.5946 0.4909 0.4202 0.4034 0.4366 0.4243 0.4410 0.7363 0.5519**

**9 0.2173 0.2666 0.3459 0.3698 0.3773 0.4309 0.4389 0.4624 \*\*\*\* 0.8912 0.3426 0.4555 0.4210 0.4974 0.3752 0.5096 0.6272 0.5205 0.5944 0.6433 0.5330 0.6572 0.5551 0.5220 0.4118 0.5571 0.3437 0.5541 0.5508 0.4601 0.3855 0.5126 0.5925 0.5421 0.3170 0.4376 0.5422 0.4800 0.4530 0.4099 0.5811 0.4796 0.5767 0.2592 0.2480 0.5202 0.4271 0.2640 0.8006 0.6321**

**10 0.6068 0.0885 0.2916 0.3947 0.3436 0.2902 0.3172 0.2990 0.1151 \*\*\*\* 0.3524 0.5471 0.4780 0.4759 0.3489 0.4760 0.5921 0.5348 0.6880 0.5884 0.5112 0.6620 0.6221 0.5323 0.3772 0.5446 0.4620 0.5107 0.5509 0.4465 0.3249 0.4362 0.5538 0.4824 0.4262 0.4987 0.4509 0.5180 0.4805 0.4482 0.5357 0.4820 0.5027 0.2085 0.2371 0.6100 0.4259 0.3104 0.8448 0.7430**

**11 1.3464 0.7963 0.6462 0.9246 0.4848 0.7654 0.7123 0.6163 1.0711 1.0429 \*\*\*\* 0.5513 0.6133 0.6431 0.4357 0.5710 0.6663 0.4991 0.5181 0.5607 0.5892 0.4772 0.4235 0.5108 0.7624 0.6119 0.4840 0.4915 0.4045 0.5878 0.5448 0.4616 0.5274 0.5881 0.4996 0.4586 0.3112 0.4688 0.3698 0.4089 0.4658 0.3978 0.5788 0.4732 0.5773 0.2980 0.4926 0.2883 0.3853 0.4045**

**12 0.8363 0.6476 0.5980 0.4123 0.5214 0.5754 0.1718 0.5358 0.7864 0.6031 0.5956 \*\*\*\* 0.8031 0.7909 0.5644 0.6566 0.6067 0.8114 0.7324 0.7653 0.7671 0.8222 0.7265 0.8854 0.7449 0.7329 0.7506 0.6311 0.7753 0.6520 0.5707 0.6552 0.7437 0.7225 0.7311 0.7194 0.4248 0.7233 0.5798 0.6059 0.6323 0.6932 0.4993 0.6322 0.7121 0.5977 0.4941 0.6430 0.5728 0.4521**

**13 0.9752 0.8017 0.7581 0.4828 0.7917 0.7170 0.2616 0.5438 0.8650 0.7382 0.4889 0.2192 \*\*\*\* 0.7717 0.7649 0.5963 0.5883 0.6638 0.6743 0.8687 0.7420 0.7649 0.7397 0.7786 0.7277 0.8081 0.8176 0.5896 0.6482 0.7359 0.6272 0.5873 0.5562 0.5961 0.7595 0.6277 0.6039 0.7288 0.6427 0.6247 0.7288 0.7129 0.6793 0.7076 0.8192 0.5042 0.6257 0.6924 0.4971 0.4667**

**14 0.6794 0.8275 0.5243 0.3470 0.4470 0.5696 0.2529 0.6790 0.6984 0.7426 0.4414 0.2346 0.2591 \*\*\*\* 0.5674 0.5922 0.5327 0.6826 0.6727 0.8646 0.8118 0.6925 0.6550 0.7242 0.7848 0.7026 0.6692 0.5454 0.7180 0.5949 0.5859 0.6414 0.7348 0.6455 0.5871 0.5169 0.6512 0.6699 0.6696 0.5512 0.6555 0.5157 0.4984 0.6163 0.7593 0.3173 0.6050 0.4621 0.5464 0.4638**

**15 0.7619 1.3144 0.8343 0.3925 1.1369 0.7169 0.3825 1.0707 0.9803 1.0529 0.8307 0.5721 0.2680 0.5666 \*\*\*\* 0.5971 0.5482 0.4360 0.4308 0.6173 0.5539 0.5157 0.5793 0.5228 0.5096 0.7911 0.5416 0.6494 0.6755 0.6264 0.7023 0.6902 0.6168 0.5933 0.6764 0.4900 0.5800 0.5813 0.5688 0.3961 0.5877 0.6905 0.5532 0.4584 0.6931 0.4691 0.4109 0.7244 0.4619 0.4706**

**16 0.6856 0.5207 0.3321 0.4453 0.4778 0.5306 0.3286 0.4134 0.6742 0.7424 0.5603 0.4206 0.5169 0.5240 0.5156 \*\*\*\* 0.8225 0.5892 0.5234 0.6101 0.7061 0.5965 0.5112 0.6248 0.6997 0.5445 0.5389 0.6832 0.6145 0.6668 0.8211 0.7381 0.7754 0.7565 0.6726 0.7180 0.5513 0.5563 0.3998 0.5227 0.6404 0.7991 0.6052 0.5182 0.5976 0.3928 0.4345 0.5291 0.6562 0.4530**

**17 0.5417 0.4090 0.4715 0.3375 0.6255 0.6593 0.4420 0.4101 0.4665 0.5241 0.4060 0.4997 0.5305 0.6298 0.6012 0.1954 \*\*\*\* 0.5738 0.4865 0.5925 0.6925 0.6121 0.4681 0.6384 0.6617 0.6267 0.3990 0.6291 0.5183 0.5862 0.6543 0.6032 0.8191 0.6716 0.4500 0.5692 0.4421 0.4828 0.3051 0.4330 0.6495 0.6681 0.6370 0.4053 0.4849 0.4916 0.4270 0.4101 0.6539 0.4277**

**18 0.8798 0.7284 0.7303 0.6646 0.5097 0.8711 0.4582 0.8573 0.6529 0.6259 0.6949 0.2090 0.4097 0.3819 0.8302 0.5289 0.5554 \*\*\*\* 0.7766 0.6240 0.7295 0.8780 0.8306 0.7934 0.7354 0.7220 0.6672 0.7374 0.7687 0.7007 0.5825 0.6918 0.6471 0.6967 0.5477 0.6364 0.5769 0.8094 0.7335 0.8036 0.7420 0.6039 0.7633 0.7594 0.6630 0.6294 0.5575 0.6134 0.6326 0.5396**

**19 0.8845 0.4091 0.3813 0.6043 0.3882 0.5800 0.3500 0.5604 0.5203 0.3740 0.6577 0.3114 0.3940 0.3964 0.8420 0.6475 0.7204 0.2528 \*\*\*\* 0.6848 0.6985 0.7510 0.9118 0.7217 0.7187 0.6569 0.7774 0.6128 0.5874 0.6451 0.4377 0.5600 0.5055 0.5720 0.7262 0.4942 0.5449 0.7281 0.6853 0.6183 0.6905 0.5340 0.6263 0.5500 0.5818 0.5410 0.4800 0.4721 0.7269 0.6566**

**20 0.4764 0.6295 0.4813 0.3268 0.4524 0.5653 0.2132 0.5424 0.4411 0.5303 0.5785 0.2674 0.1407 0.1455 0.4823 0.4941 0.5235 0.4717 0.3786 \*\*\*\* 0.7942 0.7605 0.6724 0.7943 0.7566 0.6949 0.6554 0.5353 0.6347 0.6016 0.5688 0.6492 0.6396 0.6548 0.6508 0.6168 0.6498 0.6422 0.5822 0.5618 0.7466 0.6075 0.6021 0.5986 0.7327 0.4211 0.5879 0.4883 0.5656 0.4503**

**21 0.7228 0.5577 0.3802 0.3171 0.6881 0.7065 0.2850 0.3806 0.6293 0.6710 0.5289 0.2652 0.2984 0.2085 0.5908 0.3481 0.3674 0.3154 0.3588 0.2304 \*\*\*\* 0.8069 0.7728 0.7627 0.8315 0.6915 0.7401 0.7203 0.7036 0.6454 0.6916 0.6800 0.6577 0.7916 0.6453 0.6029 0.7480 0.7972 0.6086 0.5939 0.7875 0.6615 0.6471 0.7059 0.7017 0.4378 0.5302 0.5973 0.6617 0.4673**

**22 0.5426 0.4868 0.5704 0.3847 0.5131 0.6940 0.2329 0.4790 0.4198 0.4125 0.7398 0.1958 0.2680 0.3674 0.6621 0.5167 0.4908 0.1301 0.2863 0.2737 0.2146 \*\*\*\* 0.8431 0.8508 0.7577 0.7026 0.7009 0.7419 0.7553 0.6486 0.6146 0.7088 0.5947 0.7706 0.6334 0.7369 0.6446 0.8608 0.7675 0.7387 0.7383 0.6886 0.7121 0.7093 0.6077 0.7431 0.6509 0.7296 0.6368 0.6068**

**23 0.9962 0.5651 0.5457 0.5481 0.7395 0.7250 0.3373 0.6409 0.5885 0.4746 0.8592 0.3195 0.3015 0.4231 0.5460 0.6710 0.7591 0.1856 0.0923 0.3969 0.2578 0.1707 \*\*\*\* 0.7265 0.6647 0.7234 0.8294 0.7065 0.7230 0.6643 0.5478 0.6423 0.4857 0.6689 0.7248 0.5629 0.7394 0.9174 0.8431 0.7215 0.7735 0.6388 0.7587 0.6749 0.6648 0.6714 0.4860 0.7077 0.7063 0.6054**

**24 0.5554 0.6948 0.7476 0.3514 0.6157 0.9237 0.2564 0.6757 0.6502 0.6305 0.6718 0.1218 0.2503 0.3228 0.6485 0.4704 0.4488 0.2314 0.3262 0.2303 0.2709 0.1616 0.3195 \*\*\*\* 0.7907 0.7400 0.6513 0.5656 0.6631 0.6054 0.5025 0.6756 0.7026 0.6609 0.6048 0.6383 0.4366 0.6845 0.5811 0.7412 0.8088 0.6677 0.5570 0.5386 0.6640 0.5390 0.5664 0.5380 0.6141 0.5236**

**25 0.7967 0.7516 0.4435 0.5831 0.3677 0.9026 0.4014 0.6462 0.8872 0.9749 0.2712 0.2945 0.3178 0.2423 0.6742 0.3571 0.4130 0.3074 0.3303 0.2789 0.1845 0.2775 0.4084 0.2349 \*\*\*\* 0.7030 0.6224 0.6406 0.5522 0.6343 0.6402 0.6512 0.6510 0.7042 0.6626 0.5563 0.5071 0.6294 0.5380 0.6042 0.7072 0.5409 0.5834 0.6278 0.7019 0.3798 0.6692 0.4858 0.5182 0.5263**

**26 0.6464 0.8198 0.6727 0.3433 0.6283 0.6771 0.3345 0.8388 0.5851 0.6078 0.4911 0.3108 0.2130 0.3530 0.2343 0.6079 0.4673 0.3257 0.4203 0.3639 0.3689 0.3530 0.3238 0.3010 0.3524 \*\*\*\* 0.5777 0.7321 0.7153 0.7368 0.5714 0.6207 0.7043 0.5717 0.5523 0.4284 0.5084 0.6656 0.6411 0.5540 0.7124 0.5957 0.6633 0.5164 0.6680 0.5288 0.5178 0.5604 0.6077 0.6280**

**27 1.8056 0.6808 0.5557 0.8087 0.8867 0.7477 0.3696 0.4234 1.0681 0.7722 0.7256 0.2868 0.2014 0.4017 0.6133 0.6183 0.9187 0.4047 0.2518 0.4226 0.3010 0.3554 0.1870 0.4287 0.4741 0.5487 \*\*\*\* 0.5491 0.6119 0.7186 0.5623 0.5392 0.3680 0.6017 0.8304 0.5718 0.6349 0.8139 0.6578 0.6216 0.6706 0.6726 0.6241 0.7755 0.7461 0.4568 0.4737 0.6976 0.6028 0.4989**

**28 0.5884 0.6960 0.4800 0.3958 0.6357 0.5936 0.3897 0.6551 0.5903 0.6719 0.7102 0.4603 0.5282 0.6062 0.4316 0.3809 0.4634 0.3046 0.4897 0.6250 0.3281 0.2985 0.3474 0.5698 0.4453 0.3118 0.5995 \*\*\*\* 0.8242 0.8546 0.8442 0.7808 0.6531 0.7986 0.6184 0.6742 0.6132 0.7732 0.6466 0.5635 0.6044 0.5983 0.7505 0.6417 0.5790 0.6451 0.4476 0.6941 0.5939 0.5096**

**29 0.6441 0.7960 0.5520 0.3030 0.6391 0.3418 0.1980 0.6798 0.5964 0.5962 0.9050 0.2545 0.4335 0.3312 0.3923 0.4869 0.6572 0.2631 0.5320 0.4546 0.3515 0.2806 0.3244 0.4109 0.5939 0.3350 0.4912 0.1933 \*\*\*\* 0.7040 0.7932 0.8727 0.7522 0.8506 0.5918 0.6941 0.6453 0.8064 0.7127 0.6355 0.6167 0.6382 0.6103 0.6532 0.7109 0.6238 0.5107 0.7584 0.6365 0.4823**

**30 0.8255 0.7800 0.5751 0.5496 0.6745 0.6833 0.4817 0.6533 0.7764 0.8063 0.5313 0.4277 0.3067 0.5194 0.4678 0.4052 0.5341 0.3557 0.4384 0.5081 0.4378 0.4330 0.4090 0.5018 0.4553 0.3054 0.3304 0.1571 0.3510 \*\*\*\* 0.7686 0.6825 0.5600 0.6240 0.6260 0.5581 0.5226 0.7114 0.5765 0.5972 0.6320 0.6164 0.7655 0.7533 0.7472 0.4815 0.4455 0.6038 0.5277 0.4738**

**31 0.7614 0.9105 0.4451 0.4466 0.6781 0.5023 0.3487 0.5941 0.9532 1.1244 0.6073 0.5608 0.4664 0.5346 0.3534 0.1971 0.4242 0.5404 0.8263 0.5642 0.3687 0.4868 0.6019 0.6883 0.4460 0.5596 0.5757 0.1693 0.2317 0.2632 \*\*\*\* 0.8539 0.6829 0.8512 0.6972 0.7336 0.6524 0.6864 0.5295 0.4869 0.5344 0.6387 0.6614 0.7005 0.6917 0.4569 0.4256 0.7663 0.4855 0.3608**

**32 0.5162 0.8396 0.4664 0.3111 0.5623 0.4352 0.2205 0.7241 0.6682 0.8297 0.7731 0.4228 0.5322 0.4440 0.3707 0.3036 0.5055 0.3685 0.5798 0.4321 0.3856 0.3442 0.4427 0.3922 0.4289 0.4770 0.6176 0.2474 0.1361 0.3820 0.1580 \*\*\*\* 0.7395 0.9027 0.6340 0.6849 0.6030 0.7265 0.6444 0.6186 0.6919 0.6788 0.6370 0.6237 0.7607 0.5329 0.4782 0.6881 0.6144 0.4918**

**33 0.4056 0.6607 0.4653 0.1871 0.4518 0.4696 0.2515 0.7053 0.5234 0.5909 0.6398 0.2961 0.5866 0.3081 0.4831 0.2543 0.1996 0.4352 0.6821 0.4469 0.4190 0.5197 0.7221 0.3529 0.4293 0.3505 0.9996 0.4260 0.2847 0.5798 0.3814 0.3018 \*\*\*\* 0.7071 0.4678 0.5643 0.4340 0.4875 0.4065 0.4410 0.5984 0.5885 0.4532 0.3616 0.5643 0.4478 0.4154 0.4507 0.6565 0.4592**

**34 0.6271 0.6186 0.3752 0.4205 0.5517 0.4184 0.2438 0.4122 0.6124 0.7289 0.5309 0.3250 0.5173 0.4378 0.5220 0.2790 0.3980 0.3614 0.5587 0.4235 0.2337 0.2605 0.4021 0.4141 0.3507 0.5591 0.5081 0.2248 0.1618 0.4715 0.1611 0.1024 0.3466 \*\*\*\* 0.6895 0.8024 0.6289 0.7892 0.5827 0.5982 0.6501 0.6858 0.6643 0.6643 0.6983 0.5937 0.4791 0.7206 0.6297 0.4344**

**35 1.3330 0.6689 0.4130 0.7500 0.6085 0.5885 0.2663 0.4865 1.1489 0.8529 0.6939 0.3132 0.2752 0.5325 0.3909 0.3966 0.7986 0.6020 0.3200 0.4296 0.4380 0.4566 0.3219 0.5028 0.4116 0.5937 0.1859 0.4806 0.5246 0.4684 0.3607 0.4557 0.7597 0.3717 \*\*\*\* 0.7466 0.5333 0.6927 0.5752 0.4667 0.5209 0.6231 0.5309 0.5808 0.6683 0.4920 0.3662 0.7194 0.5271 0.4701**

**36 0.9197 0.6275 0.6749 0.6910 0.6343 0.6875 0.3595 0.4658 0.8265 0.6957 0.7797 0.3294 0.4657 0.6599 0.7133 0.3313 0.5636 0.4520 0.7048 0.4831 0.5060 0.3053 0.5747 0.4489 0.5865 0.8476 0.5590 0.3943 0.3652 0.5833 0.3098 0.3785 0.5721 0.2201 0.2922 \*\*\*\* 0.5307 0.7013 0.5483 0.6151 0.4829 0.5916 0.6213 0.5477 0.5290 0.6655 0.4266 0.6628 0.4653 0.3094**

**37 0.8742 0.9008 0.6300 0.6026 1.0598 0.9870 0.5848 0.7167 0.6121 0.7965 1.1673 0.8561 0.5044 0.4290 0.5447 0.5955 0.8162 0.5501 0.6071 0.4310 0.2903 0.4391 0.3019 0.8288 0.6790 0.6765 0.4544 0.4891 0.4380 0.6489 0.4271 0.5058 0.8346 0.4638 0.6286 0.6335 \*\*\*\* 0.7998 0.7621 0.5588 0.6946 0.5730 0.7422 0.6721 0.5705 0.4136 0.4622 0.6441 0.5831 0.3929**

**38 1.0881 0.6593 0.6497 0.5575 0.9234 0.7361 0.3224 0.5702 0.7340 0.6578 0.7576 0.3239 0.3163 0.4006 0.5426 0.5865 0.7282 0.2115 0.3173 0.4429 0.2266 0.1499 0.0862 0.3791 0.4630 0.4070 0.2059 0.2572 0.2152 0.3405 0.3763 0.3195 0.7185 0.2367 0.3671 0.3548 0.2233 \*\*\*\* 0.9055 0.7527 0.7361 0.6631 0.8141 0.7953 0.7220 0.7047 0.5033 0.7985 0.6062 0.4722**

**39 1.0451 0.9130 0.9239 0.6623 0.8714 0.8828 0.4328 1.0832 0.7918 0.7329 0.9949 0.5451 0.4421 0.4011 0.5642 0.9169 1.1871 0.3099 0.3778 0.5409 0.4967 0.2646 0.1707 0.5429 0.6198 0.4445 0.4188 0.4361 0.3387 0.5508 0.6359 0.4394 0.9001 0.5401 0.5530 0.6009 0.2717 0.0992 \*\*\*\* 0.7339 0.6469 0.5237 0.7119 0.6464 0.6034 0.6580 0.5701 0.6705 0.5156 0.5324**

**40 1.1781 0.8626 1.0750 0.9256 0.8422 1.1526 0.6311 0.9328 0.8919 0.8025 0.8942 0.5010 0.4705 0.5957 0.9262 0.6488 0.8371 0.2187 0.4808 0.5767 0.5210 0.3028 0.3264 0.2995 0.5039 0.5906 0.4755 0.5737 0.4534 0.5154 0.7196 0.4804 0.8187 0.5138 0.7621 0.4860 0.5820 0.2840 0.3094 \*\*\*\* 0.8107 0.6250 0.7249 0.6295 0.6092 0.5961 0.7292 0.5306 0.6032 0.5469**

**41 0.7344 0.6549 0.6286 0.4723 0.8001 0.9599 0.4105 0.6448 0.5429 0.6242 0.7640 0.4583 0.3164 0.4223 0.5315 0.4456 0.4316 0.2984 0.3703 0.2922 0.2389 0.3034 0.2568 0.2122 0.3464 0.3391 0.3995 0.5035 0.4834 0.4588 0.6267 0.3683 0.5136 0.4307 0.6522 0.7279 0.3644 0.3064 0.4356 0.2098 \*\*\*\* 0.7668 0.7714 0.6146 0.6911 0.4297 0.6238 0.5264 0.7821 0.6208**

**42 0.8629 0.7464 0.6969 0.4867 0.9740 0.6659 0.3240 0.5199 0.7348 0.7298 0.9219 0.3664 0.3384 0.6623 0.3704 0.2243 0.4033 0.5043 0.6274 0.4985 0.4133 0.3731 0.4482 0.4039 0.6145 0.5180 0.3967 0.5136 0.4491 0.4838 0.4483 0.3875 0.5302 0.3771 0.4730 0.5250 0.5569 0.4108 0.6468 0.4699 0.2655 \*\*\*\* 0.6211 0.6069 0.6067 0.5317 0.5357 0.7202 0.6655 0.5313**

**43 0.9684 0.7051 0.7771 0.8544 0.8564 1.0086 0.7035 0.7116 0.5504 0.6878 0.5469 0.6946 0.3867 0.6963 0.5921 0.5022 0.4510 0.2702 0.4679 0.5073 0.4352 0.3395 0.2762 0.5852 0.5388 0.4105 0.4715 0.2870 0.4939 0.2672 0.4133 0.4509 0.7915 0.4091 0.6333 0.4759 0.2981 0.2057 0.3399 0.3218 0.2595 0.4763 \*\*\*\* 0.7317 0.6397 0.5930 0.4772 0.5820 0.5942 0.4293**

**44 1.4932 1.3466 0.9214 1.0996 1.0280 1.1066 0.6934 0.8671 1.3503 1.5676 0.7483 0.4585 0.3459 0.4840 0.7800 0.6574 0.9032 0.2753 0.5978 0.5132 0.3483 0.3435 0.3932 0.6187 0.4656 0.6609 0.2543 0.4436 0.4258 0.2832 0.3559 0.4721 1.0172 0.4090 0.5433 0.6021 0.3974 0.2290 0.4363 0.4629 0.4868 0.4994 0.3123 \*\*\*\* 0.7825 0.4058 0.4922 0.7355 0.3595 0.2663**

**45 1.2955 1.2080 0.8002 0.7046 0.9698 0.7542 0.4276 0.9079 1.3942 1.4394 0.5494 0.3395 0.1994 0.2753 0.3666 0.5148 0.7239 0.4109 0.5415 0.3110 0.3542 0.4981 0.4082 0.4094 0.3540 0.4034 0.2929 0.5464 0.3413 0.2915 0.3686 0.2736 0.5722 0.3591 0.4029 0.6368 0.5613 0.3257 0.5051 0.4956 0.3695 0.4997 0.4467 0.2452 \*\*\*\* 0.3066 0.4632 0.6142 0.4172 0.3023**

**46 0.8910 0.6965 1.0376 0.6348 1.0085 0.8290 0.5102 0.8287 0.6535 0.4943 1.2108 0.5147 0.6847 1.1480 0.7569 0.9344 0.7101 0.4630 0.6144 0.8649 0.8260 0.2969 0.3984 0.6180 0.9682 0.6372 0.7836 0.4384 0.4719 0.7309 0.7833 0.6294 0.8035 0.5214 0.7092 0.4071 0.8828 0.3500 0.4185 0.5173 0.8448 0.6318 0.5226 0.9019 1.1822 \*\*\*\* 0.4690 0.6542 0.4601 0.4180**

**47 0.9677 0.9647 0.9411 0.8418 0.6486 0.8560 0.5999 0.8573 0.8507 0.8536 0.7081 0.7050 0.4688 0.5026 0.8895 0.8336 0.8510 0.5842 0.7339 0.5313 0.6345 0.4295 0.7216 0.5685 0.4017 0.6582 0.7471 0.8039 0.6721 0.8086 0.8543 0.7376 0.8785 0.7359 1.0045 0.8518 0.7717 0.6866 0.5620 0.3158 0.4719 0.6241 0.7398 0.7088 0.7697 0.7572 \*\*\*\* 0.4203 0.4885 0.5916**

**48 1.2668 1.2851 0.9080 0.6585 1.2959 0.8899 0.4052 0.8187 1.3320 1.1700 1.2438 0.4415 0.3675 0.7720 0.3224 0.6365 0.8915 0.4887 0.7505 0.7168 0.5154 0.3152 0.3457 0.6198 0.7220 0.5792 0.3601 0.3651 0.2766 0.5046 0.2662 0.3738 0.7969 0.3277 0.3293 0.4113 0.4398 0.2250 0.3998 0.6338 0.6417 0.3283 0.5413 0.3071 0.4874 0.4244 0.8667 \*\*\*\* 0.4096 0.3996**

**49 0.6706 0.1905 0.2009 0.4085 0.4032 0.3476 0.2895 0.3062 0.2224 0.1686 0.9536 0.5572 0.6990 0.6044 0.7725 0.4212 0.4248 0.4580 0.3190 0.5699 0.4129 0.4514 0.3478 0.4876 0.6574 0.4980 0.5061 0.5210 0.4518 0.6392 0.7225 0.4871 0.4208 0.4625 0.6404 0.7651 0.5395 0.5006 0.6624 0.5056 0.2458 0.4073 0.5206 1.0232 0.8741 0.7764 0.7165 0.8927 \*\*\*\* 0.8140**

**50 0.8845 0.3871 0.3588 0.5914 0.3160 0.4973 0.4325 0.5943 0.4587 0.2971 0.9050 0.7939 0.7620 0.7683 0.7537 0.7918 0.8493 0.6170 0.4206 0.7978 0.7608 0.4996 0.5019 0.6470 0.6419 0.4652 0.6954 0.6742 0.7292 0.7470 1.0195 0.7097 0.7783 0.8337 0.7548 1.1731 0.9342 0.7504 0.6304 0.6034 0.4768 0.6324 0.8457 1.3233 1.1965 0.8723 0.5249 0.9172 0.2058 \*\*\*\***

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