





GUIDE 0.00-SE classification tree for predicting HIC2 using equal priors and unit misclassification costs. At each split, an observation goes to the left branch if and only if the condition is satisfied. The symbol ‘ $\leq$ ’ stands for ‘ $\leq$  or missing’. For splits on categorical variables, values not present in the training sample go to the right. Set  $S_1 = \{\text{BWU, NA, UNK}\}$ . Set  $S_2 = \{\text{ASTRO, BLAZER, CAPRICE, CARAVAN, CENTURY, DE VILLE, ELANTRA, EX35, EXPLORER, GRAND AM, INTRIGUE, LEGACY, RAM, RANGER, RAV4, S-10, S10 BLAZER, SILVERADO, SPORTAGE, TACOMA, TRAILBLAZER, VIGOR, VUE}\}$ . Set  $S_3 = \{05, 3C\}$ . Set  $S_4 = \{134, \text{EOL, LCB, OTH}\}$ . Set  $S_5 = \{\text{LCB, UNK}\}$ . Set  $S_6 = \{\text{CIVIC, DEFORMABLE IMPACTOR, GALANT, GL, LEGACY, MIRAGE, SL1, STYLUS}\}$ . Set  $S_7 = \{\text{ACURA, HONDA, MAZDA, MERCEDES}\}$ . Set  $S_8 = \{\text{AF, AR}\}$ . Set  $S_9 = \{\text{PU, SW, UV}\}$ . Set  $S_{10} = \{740 \text{ GLE, 80, 9000, 929, CHEROKEE, CORSICA, EXCEL GLS, LEGEND, LEMANS, LESABRE, MIATA, TERCEL, VAN}\}$ . Set  $S_{11} = \{\text{FIREBIRD, HHR, HIGHLANDER, HORIZON, HR-V, HS250h, I-MARK, ILX, ILX HYBRID, IMPALA, IMPERIAL, IMPREZA, IMPULSE, IMiEV, INSIGHT, INTEGRA, INTREPID, INTRIGUE, ION, IS250, IS300, J30, JETTA, JOURNEY, JUKE, JUSTY, JX, K1500 PICKUP, K20 PICKUP, K2500 PICKUP, KING CAB PICKUP, KIZASHI, L200, LACROSSE, LANCER, LAND CRUISER, LASER, LE BARON, LE CAR, LEAF, LEGANZA, LEGEND, LEMANS, LEOPARD, LESABRE, LHS, LIBERTY, LR3, LS, LTD, LUCERNE, LUMINA, LUV, LYNX, M37, MAGNUM, MALIBU, MALIBU ECO EASSIST, MARK, MARQUIS, MATADOR, MATRIX, MAZDA3, MAZDA5, MAZDA6, MDX, MEGANE, MERKUR, METRO, MIATA, MIGHTY MAX, MILLENIA, MIRADA, MKC, MKS, MKT, ML320, ML350, MODEL S, MONARCH, MONTANA, MONTE CARLO, MONTERO, MONTERO SPORT, MONZA, MOTOR HOME, MPV, MR2, MURANO, MUSTANG, MX3, MX5, MX6, MYSTIQUE, NAVIGATOR, NEON, NEW YORKER, NEWPORT, NITRO, NOVA, NUBIRA, NX200t, ODYSSEY, OMEGA, OMNI, OPTIMA, OTHER, OUTBACK, OUTLANDER, OUTLANDER SPORT, OUTLOOK, PACIFICA, PARISIENNE, PARK AVENUE, PASEO, PASSAT, PATHFINDER, PATRIOT, PILOT, PRECIS, PRELUDE, PREMIER, PREVIA, PRIUS, PRIUS C, PRIUS PLUG-IN, PRIUS V, PRIZM, PROBE, PT CRUISER, PULSAR, PUP, Q5, Q50, Q7, QUANTUM, QUEST, RABBIT, RAM, RAM 150, RAM 250 VAN, RAM WAGON VAN, RAM1500, RAMPAGE, RANGE ROVER SPORT, RANGER, RAV4, RDX, REGAL EASSIST, RELIANT, S80, SAMURAI, ST. REGIS, STARLET, STEALTH, STORM, STRADA, STRATUS, STS, STYLUS, SUBURBAN, SUMMIT, SUNBIRD, SUNDANCE, SUNFIRE, SWIFT, SX4, T100, T1000, TACOMA, TAHOE, TEMPO, TERCEL, THUNDERBIRD, TIBURON, TIGUAN, TITAN, TL, TOPAZ, TORINO, TORONADO, TOUAREG, TOWN AND COUNTRY, TOWN CAR, TRACKER, TRAILBLAZER, TRAILBLAZER EXT, TRANSIT CONNECT, TRANSIT VAN, TRAVERSE, TREDIA, TREKKER, TRIBECA, TROOPER II, TROPICA, TSX, TUCSON, TUNDRA, TUNDRA DOUBLE CAB, TURBO Z, UPLANDER, V70, VAMOS L, VAN, VANAGON, VANDURA, VEGA, VELOSTER, VENTURE, VENZA, VERACRUZ, VERANO, VERONA, VERSA, VERSA NOTE, VIGOR, VILLAGER, VISION, VITARA, VITZ, VOLARE, VOLT, VUE, WAGON, WAGON R, WINDSTAR}\}$ . Set  $S_{12} = \{100, \text{AMIGO, BERETTA, CALAIS, CAMRY, CAVALIER, CELICA, RX, SABLE, SHADOW, SONATA, STANZA, STARION}\}$ . Set  $S_{13} = \{\text{AF, MF}\}$ . Predicted classes (based on estimated misclassification cost) printed below terminal nodes; sample sizes for HIC2 = 0 and 1, respectively, beside nodes. Second best split variable at root node is RSTDPL.