

**APPENDIX 3. Habitat Suitability Values for Each Modeled Species for Each Habitat Type**

Code	Common Name	Scientific name	Range Size	Mobility
B108	Turkey Vulture	<i>Cathartes aura</i>	>40ha	high
B115	Sharp-Shinned Hawk	<i>Accipiter striatus</i>	<40ha	high
B116	Cooper's Hawk*	<i>Accipiter cooperii</i>	<40ha	high
B117	Northern Goshawk	<i>Accipiter gentilis</i>	>40ha	high
B123	Red-Tailed Hawk	<i>Buteo jamaicensis</i>	>40ha	high
B126	Golden Eagle	<i>Aquila chrysaetos</i>	>40ha	high
B127	American Kestrel	<i>Falco sparverius</i>	>40ha	high
B131	Prairie Falcon	<i>Falco mexicanus</i>	>40ha	high
B134	Blue Grouse	<i>Dendragapus obscurus</i>	<40ha	high
B138	Wild Turkey*	<i>Meleagris gallopavo</i>	>40ha	high
B140	California Quail	<i>Callipepla californica</i>	<40ha	high
B141	Mountain Quail	<i>Oreortyx pictus</i>	>40ha	high
B251	Band-Tailed Pigeon	<i>Columba fasciata</i>	<40ha	high
B255	Mourning Dove*	<i>Zenaida macroura</i>	>40ha	high
B263	Flammulated Owl	<i>Otus flammeolus</i>	<40ha	high
B264	Western Screech-Owl*	<i>Otus kennicottii</i>	<40ha	high
B265	Great Horned Owl	<i>Bubo virginianus</i>	>40ha	high
B267	Northern Pygmy-Owl	<i>Glaucidium gnoma</i>	<40ha	high
B270	Spotted Owl	<i>Strix occidentalis</i>	>40ha	high
B272	Long-Eared Owl*	<i>Asio otus</i>	<40ha	high
B274	Northern Saw-Whet Owl	<i>Aegolius acadicus</i>	<40ha	high
B276	Common Nighthawk	<i>Chordeiles minor</i>	>40ha	high
B277	Common Poorwill*	<i>Phalaenoptilus nuttallii</i>	<40ha	high
B279	Black Swift	<i>Cypseloides niger</i>	>40ha	high
B281	Vaux's Swift*	<i>Chaetura vauxi</i>	>40ha	high
B282	White-Throated Swift	<i>Aeronautes saxatalis</i>	>40ha	high
B287	Anna's Hummingbird*	<i>Calypte anna</i>	<40ha	high
B289	Calliope Hummingbird	<i>Stellula calliope</i>	<40ha	high
B290	Broad-Tailed Hummingbird	<i>Selasphorus platycercus</i>	<40ha	high
B294	Lewis's Woodpecker	<i>Melanerpes lewis</i>	<40ha	high
B299	Red-Breasted Sapsucker	<i>Sphyrapicus ruber</i>	<40ha	high
B300	Williamson's Sapsucker	<i>Sphyrapicus thyroideus</i>	<40ha	high
B304	Hairy Woodpecker	<i>Picoides villosus</i>	<40ha	high
B305	White-Headed Woodpecker	<i>Picoides albolarvatus</i>	<40ha	high
B306	Black-Backed Woodpecker	<i>Picoides arcticus</i>	<40ha	high
B307	Northern Flicker	<i>Colaptes auratus</i>	<40ha	high
B308	Pileated Woodpecker	<i>Dryocopus pileatus</i>	>40ha	high
B309	Olive-Sided Flycatcher	<i>Contopus cooperi</i>	<40ha	high
B311	Western Wood-Pewee	<i>Contopus sordidulus</i>	<40ha	high
B317	Hammond's Flycatcher	<i>Empidonax hammondii</i>	<40ha	high
B318	Dusky Flycatcher	<i>Empidonax oberholseri</i>	<40ha	high
B320	Pacific-Slope Flycatcher	<i>Empidonax difficilis</i>	<40ha	high
B326	Ash-Throated Flycatcher*	<i>Myiarchus cinerascens</i>	<40ha	high
B338	Purple Martin	<i>Progne subis</i>	<40ha	high

B340	Violet-Green Swallow	<i>Tachycineta thalassina</i>	<40ha	high
B341	Northern Rough-Winged Swallow	<i>Stelgidopteryx serripennis</i>	<40ha	high
B343	Cliff Swallow*	<i>Petrochelidon pyrrhonota</i>	>40ha	high
B344	Barn Swallow	<i>Hirundo rustica</i>	<40ha	high
B346	Steller's Jay	<i>Cyanocitta stelleri</i>	<40ha	high
B348	Western Scrub Jay*	<i>Aphelocoma californica</i>	<40ha	high
B349	Pinyon Jay*	<i>Gymnorhinus cyanocephalus</i>	>40ha	high
B350	Clark's Nutcracker	<i>Nucifraga columbiana</i>	>40ha	high
B354	Common Raven	<i>Corvus corax</i>	>40ha	high
B356	Mountain Chickadee	<i>Poecile gambeli</i>	<40ha	high
B360	Bushtit	<i>Psaltriparus minimus</i>	<40ha	high
B361	Red-Breasted Nuthatch	<i>Sitta canadensis</i>	<40ha	high
B362	White-Breasted Nuthatch	<i>Sitta carolinensis</i>	<40ha	high
B363	Pygmy Nuthatch	<i>Sitta pygmaea</i>	<40ha	high
B364	Brown Creeper	<i>Certhia americana</i>	<40ha	high
B366	Rock Wren	<i>Salpinctes obsoletus</i>	<40ha	high
B368	Bewick'S Wren	<i>Thryomanes bewickii</i>	<40ha	high
B369	House Wren	<i>Troglodytes aedon</i>	<40ha	high
B370	Winter Wren	<i>Troglodytes troglodytes</i>	<40ha	high
B375	Golden-Crowned Kinglet	<i>Regulus satrapa</i>	<40ha	high
B376	Ruby-Crowned Kinglet	<i>Regulus calendula</i>	<40ha	high
B377	Blue-Gray Gnatcatcher*	<i>Polioptila caerulea</i>	<40ha	high
B380	Western Bluebird*	<i>Sialia mexicana</i>	<40ha	high
B381	Mountain Bluebird	<i>Sialia currucoides</i>	<40ha	high
B382	Townsend's Solitaire	<i>Myadestes townsendi</i>	<40ha	high
B385	Swainson's Thrush*	<i>Catharus ustulatus</i>	<40ha	high
B386	Hermit Thrush	<i>Catharus guttatus</i>	<40ha	high
B389	American Robin	<i>Turdus migratorius</i>	<40ha	high
B411	European Starling*	<i>Sturnus vulgaris</i>	>40ha	high
B415	Plumbeous Vireo	<i>Vireo plumbeous</i>	<40ha	high
B418	Warbling Vireo	<i>Vireo gilvus</i>	<40ha	high
B426	Nashville Warbler	<i>Vermivora ruficapilla</i>	<40ha	high
B430	Yellow Warbler	<i>Dendroica petechia</i>	<40ha	high
B435	Yellow-Rumped Warbler	<i>Dendroica coronata</i>	<40ha	high
B436	Black-Throated Gray Warbler*	<i>Dendroica nigrescens</i>	<40ha	high
B438	Hermit Warbler	<i>Dendroica occidentalis</i>	<40ha	high
B460	Macgillivray's Warbler*	<i>Oporornis tolmiei</i>	<40ha	high
B471	Western Tanager	<i>Piranga ludoviciana</i>	<40ha	high
B475	Black-Headed Grosbeak*	<i>Pheucticus melanocephalus</i>	<40ha	high
B477	Lazuli Bunting*	<i>Passerina amoena</i>	<40ha	high
B482	Green-Tailed Towhee	<i>Pipilo chlorurus</i>	<40ha	high
B483	Spotted Towhee	<i>Pipilo maculatus</i>	<40ha	high
B484	California Towhee*	<i>Pipilo crissalis</i>	<40ha	high
B489	Chipping Sparrow	<i>Spizella passerina</i>	<40ha	high
B491	Brewer'S Sparrow	<i>Spizella breweri</i>	<40ha	high
B494	Vesper Sparrow*	<i>Pooecetes gramineus</i>	<40ha	high
B504	Fox Sparrow	<i>Passerella iliaca</i>	<40ha	high

B505	Song Sparrow*	<i>Melospiza melodia</i>	<40ha	high
B506	Lincoln's Sparrow*	<i>Melospiza lincolnii</i>	<40ha	high
B512	Dark-Eyed Junco	<i>Junco hyemalis</i>	<40ha	high
B521	Western Meadowlark*	<i>Sturnella neglecta</i>	<40ha	high
B524	Brewer's Blackbird*	<i>Euphagus cyanocephalus</i>	>40ha	high
B528	Brown-Headed Cowbird*	<i>Molothrus ater</i>	<40ha	high
B535	Pine Grosbeak	<i>Pinicola enucleator</i>	<40ha	high
B536	Purple Finch	<i>Carpodacus purpureus</i>	<40ha	high
B537	Cassin's Finch	<i>Carpodacus cassinii</i>	<40ha	high
B538	House Finch*	<i>Carpodacus mexicanus</i>	<40ha	high
B539	Red Crossbill	<i>Loxia curvirostra</i>	>40ha	high
B542	Pine Siskin	<i>Carduelis pinus</i>	<40ha	high
B543	Lesser Goldfinch*	<i>Carduelis psaltria</i>	<40ha	high
B546	Evening Grosbeak	<i>Coccothraustes vespertinus</i>	<40ha	high
M003	Vagrant Shrew	<i>Sorex vagrans</i>	<40ha	low
M004	Dusky Shrew*	<i>Sorex monticolus</i>	<40ha	low
M012	Trowbridge's Shrew	<i>Sorex trowbridgii</i>	<40ha	low
M018	Broad-Footed Mole	<i>Scapanus latimanus</i>	<40ha	low
M021	Little Brown Myotis*	<i>Myotis lucifugus</i>	>40ha	high
M023	Yuma Myotis*	<i>Myotis yumanensis</i>	>40ha	high
M025	Long-Eared Myotis	<i>Myotis evotis</i>	>40ha	high
M026	Fringed Myotis*	<i>Myotis thysanodes</i>	>40ha	high
M028	California Myotis*	<i>Myotis californicus</i>	>40ha	high
M030	Silver-Haired Bat	<i>Lasiorycteris noctivagans</i>	<40ha	high
M032	Big Brown Bat	<i>Eptesicus fuscus</i>	>40ha	high
M038	Pallid Bat*	<i>Antrozous pallidus</i>	>40ha	high
M039	Brazilian Free-Tailed Bat*	<i>Tadarida brasiliensis</i>	>40ha	high
M049	Snowshoe Hare*	<i>Lepus americanus</i>	<40ha	low
M051	Black-Tailed Hare*	<i>Lepus californicus</i>	<40ha	low
M052	Mountain Beaver	<i>Aplodontia rufa</i>	<40ha	low
M055	Yellow-Pine Chipmunk	<i>Tamias amoenus</i>	<40ha	low
M057	Allen's Chipmunk	<i>Tamias senex</i>	<40ha	low
M062	Long-Eared Chipmunk	<i>Tamias quadrimaculatus</i>	<40ha	low
M063	Lodgepole Chipmunk	<i>Tamias speciosus</i>	<40ha	low
M070	Belding's Ground Squirrel*	<i>Spermophilus beldingi</i>	<40ha	low
M072	California Ground Squirrel	<i>Spermophilus beecheyi</i>	<40ha	low
M075	Golden-Mantled Ground Squirrel	<i>Spermophilus lateralis</i>	<40ha	low
M077	Western Gray Squirrel*	<i>Sciurus griseus</i>	<40ha	low
M079	Douglas' Squirrel	<i>Tamiasciurus douglasii</i>	<40ha	low
M080	Northern Flying Squirrel	<i>Glaucomys sabrinus</i>	<40ha	low
M085	Mountain Pocket Gopher*	<i>Thomomys monticola</i>	<40ha	low
M117	Deer Mouse	<i>Peromyscus maniculatus</i>	<40ha	low
M119	Brush Mouse	<i>Peromyscus boylii</i>	<40ha	low
M120	Pinyon Mouse	<i>Peromyscus truei</i>	<40ha	low
M126	Desert Woodrat*	<i>Neotoma lepida</i>	<40ha	low
M127	Dusky-Footed Woodrat	<i>Neotoma fuscipes</i>	<40ha	low
M128	Bushy-Tailed Woodrat	<i>Neotoma cinerea</i>	<40ha	low

M133	Montane Vole*	<i>Microtus montanus</i>	<40ha	low
M136	Long-Tailed Vole	<i>Microtus longicaudus</i>	<40ha	low
M143	Western Jumping Mouse	<i>Zapus princeps</i>	<40ha	low
M146	Coyote	<i>Canis latrans</i>	>40ha	high
M151	Black Bear	<i>Ursus americanus</i>	>40ha	high
M153	Raccoon	<i>Procyon lotor</i>	>40ha	high
M154	Marten	<i>Martes americana</i>	>40ha	high
M155	Fisher	<i>Martes pennanti</i>	>40ha	high
M156	Ermine	<i>Mustela erminea</i>	<40ha	high
M157	Long-Tailed Weasel	<i>Mustela frenata</i>	<40ha	high
M160	Badger	<i>Taxidea taxus</i>	>40ha	high
M161	Western Spotted Skunk	<i>Spilogale gracilis</i>	>40ha	high
M162	Striped Skunk	<i>Mephitis mephitis</i>	>40ha	high
M165	Mountain Lion	<i>Felis concolor</i>	>40ha	high
M166	Bobcat	<i>Felis rufus</i>	>40ha	high
M181	Mule Deer	<i>Odocoileus hemionus</i>	>40ha	high
R022	Western Fence Lizard	<i>Sceloporus occidentalis</i>	<40ha	low
R040	Southern Alligator Lizard	<i>Elgaria multicarinata</i>	<40ha	low
R042	Northern Alligator Lizard	<i>Elgaria coerulea</i>	<40ha	low
R061	Common Garter Snake*	<i>Thamnophis sirtalis</i>	<40ha	low
R063	Western Aquatic Garter Snake*	<i>Thamnophis couchii</i>	<40ha	low



0	0	0	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0
0	1	0	0	0	0	0	0	0	0	0
0	0.67	0	0	0	0	0	0	0	0	0
0	1	0	0	0	0	0	0	0	0	0
0.67	0	1	0.33	1	1	0.33	1	1	1	0.67
0	0.33	0	0	0	0	0	0	0	0	0
0	0	0	0.33	0.33	0	0.33	0.33	0	0	0
0	0	0.33	0.33	0.33	0.33	0.67	0.67	0.67	0.67	0.33
1	1	1	1	1	1	1	1	1	1	1
0.67	0	0.33	1	1	0.67	1	1	0.67	0.67	0.33
0	1	0	0	0	0	0	0	0	0	0
0	0	0	0.67	0.67	0.67	1	1	1	1	0
0	0	0.33	0.67	1	1	1	1	1	1	0.33
0	0	0	0.67	0.67	0.67	1	1	1	1	0
0	0	0.33	0	0.67	0.67	0	1	1	1	0.33
0	1	0	0	0	0	0	0	0	0	0
0	1	0	0	0	0	0	0	0	0	0
1	0.33	0	0	0	0	0	0	0	0	0
0	0	0.33	0	0.33	0.33	0	0.33	0.33	0.33	0
0	0	0.33	0.33	0.67	0.67	0.33	0.67	0.67	0.67	0.67
0	0	0.67	0.67	0.67	0.33	0.67	0.67	0.33	0.33	1
0	0.67	0	0	0	0	0	0	0	0	0
0	0	0	0.67	0.33	0	0.67	0.33	0	0	0
1	0	0.33	0.33	0	0	0	0	0	0	1
0	0	1	1	0.67	0.33	1	0.67	0.33	0.33	0
0	0	0	0	0	0	0	0	0	0	0
0.33	0	0.67	0	0.33	0.67	0	0.33	0.67	0.67	1
0.67	0	1	1	0.67	0.33	1	0.67	0.33	0.33	1
0.33	0	0.33	0.33	0	0	0.33	0	0	0	0
0.67	0	1	1	0.33	0.67	1	0.33	0.67	0.67	0.33
1	0	0.33	0.33	0.33	0	0.33	0.33	0	0	0.67
0	1	0	0	0	0	0	0	0	0	0
0	0.67	0	0	0	0	0	0	0	0	0
0.67	0	1	1	1	0.67	1	1	0.67	0.67	1
0	0.33	0	0	0	0	0	0	0	0	0
0	0	0.67	1	1	1	1	1	1	1	0
0	0.33	0	0	0	0	0	0	0	0	0
0	0	0.67	1	1	0.67	1	1	0.67	0.67	0
0	0	0.33	0.33	0.33	0	0.33	0.33	0	0	0
0	0.33	0.33	0.33	0	0	0.33	0	0	0	0
0	1	0.33	0.33	0	0	0.33	0	0	0	0.33
0	1	0.33	0	0	0	0	0	0	0	0
0	0.67	0	0	0	0	0	0	0	0	0
0.33	0	0.67	0.67	0.33	0	0.67	0	0	0	0.67
0	1	0	0	0	0	0	0	0	0	0
0	0.67	0	0	0	0	0	0	0	0	0
0.67	1	1	1	0.67	0	1	0.67	0	0	0.67

0.67	0	0.33	0.33	0	0	0.33	0	0	0
0	0	0	0	0	0	0	0	0	0.67
1	0.67	1	1	0.67	0.33	1	0.67	0.33	1
0	0	0.33	0.33	0	0	0.33	0	0	0
0	0	0.33	0.33	0	0	0.33	0	0	0.33
0.33	0	0.67	0.67	0.33	0.33	0.67	0.33	0.33	0.33
0	0	0	0	0	0	0	0	0	0
0	0	0	0.33	0.67	0.33	0.33	0.67	0.33	0
0.33	0	0	0.67	0.33	0	0.67	0.33	0	0.67
0.33	0	0.33	0.33	0	0	0.33	0	0	0
0	0	0	0.33	0.33	0.33	0.33	0.33	0.33	0.67
0	0	0	0.33	0.33	0	0.33	0.33	0	0.67
0.33	0.33	0.33	0.33	0	0	0.33	0	0	0
0.33	0	0	0	0	0	0	0	0	0
1	0.67	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
0	0	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
0	0.33	0	0	0	0	0	0	0	0
1	0	0.67	0.33	0	0	0.33	0	0	0.67
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0.67	0	1	1	1	1	1	1	1	0.33
0	0	0	0	0	0	0	0	0	0
0.33	0.67	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
1	0	0.67	1	0.67	0.67	1	0.67	0	0.67
0.67	1	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0.67	0	0.33	0	0	0	0	0	0	0.33
0.33	0.67	0.67	0.33	0	0	0.33	0	0	0.33
0.67	0	0.67	0.33	0.33	0	0.33	0	0	0.67
0.67	1	1	1	1	0.33	1	1	0.33	1
0.67	0.67	1	1	0.67	0.33	1	0.67	0.33	0.33
0	0	0	0	0	0	0	0	0	0
0	0.33	0.33	0.33	0	0	0.33	0	0	1
0.33	0.33	0.33	0	0	0	0	0	0	0.67
0.67	1	1	0.67	0.33	0.33	0.67	0.33	0.33	0.67
0.67	1	1	1	0.67	0.33	1	0.67	0.33	1
0.33	0	0.33	0.33	0.33	0.67	0.33	0.67	0.67	0
0.33	0	0.33	0	0.67	1	0.67	1	1	0.33
1	0	0.67	0.33	0.67	0.67	0.67	1	1	0.67
0	0.33	0.67	0.33	0	0	0.33	0	0	0.67
0.33	1	1	0.67	0.67	0.33	0.67	0.67	0.33	1
0	1	1	0.67	0.67	0	0.67	0.67	0	0
0	1	0	0	0	0	0	0	0	0
0	0.67	0	0	0	0	0	0	0	0
0	1	0	0	0	0	0	0	0	0
0	0.67	1	1	0.67	0.67	1	0.67	0.33	0.67

0.33	0.33	0.67	0.67	0.33	0.33	0.67	0.33	0.33	0.67
1	0.33	1	0.67	0.67	0.33	0.67	0.33	0	1
1	0	0.67	0.67	0.67	0.33	0.67	0.67	0.33	0.33
1	1	1	0.67	0.67	0.33	0.67	0.33	0.33	1
1	0.33	0.67	0.67	0.67	0.67	0.67	1	0.67	0.67
1	0.67	0.33	0.67	1	0.67	0.67	1	1	0.33
0.67	0	0.33	0.33	0.67	0.67	0.33	0.67	0.67	0.33
0.67	0	0	0	0.33	1	0	0.67	1	0
1	0.33	0.67	0.67	0.67	1	0.67	0.67	1	0.33
1	0.67	1	0.33	0.67	0.67	0.33	0.67	0.67	1
0.33	1	1	0.67	0	0	0.33	0	0	1
1	1	1	0.33	0.33	0.33	0.67	0.33	0	0.33
1	1	1	0.67	0.67	0.33	0.33	0.33	0.33	0.33
1	1	1	0.67	0.67	0.67	0.67	0.67	0.67	1
1	1	1	1	0.67	0.33	0.67	0.33	0.33	1
1	1	1	0.67	0.67	0.33	0.67	0.33	0.33	1
0	1	0.67	0.67	0.67	0.33	0.67	0.67	0	0.67
0	1	0	0	0	0	0	0	0	0
0	1	0.67	0.67	0.67	0.33	0.33	0.33	0	0.67
0	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0
0.67	0.67	0	0	0	0	0	0	0	0





0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0.33	0.67	0.67	0.33	0.67	0.67	0.67	0.33	0.67	0.67
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0.67	0.67	0.67	1	1	1	0.33	0.33	0.33	0.33
1	1	1	1	1	1	1	1	1	1
1	1	0.67	1	1	0.67	0.33	1	1	0.67
0	0	0	0	0	0	0	0	0	0
0.33	0.33	0.33	0.67	0.67	0.67	0	0.67	0.67	0.67
0.67	0.67	0.67	1	1	1	0	0.33	0.33	0.33
0	0	0	0.33	0.33	0.33	0	0	0	0
0	0.67	0.67	0	0.67	0.67	0.33	0.33	0.67	0.67
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0.33	0.33	0.67	0.67
0.33	0.67	1	0.67	1	1	0.67	0.67	1	1
1	1	0.67	1	1	0.67	0.33	0.33	0.33	0.33
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0.33	0.33	0.33
1	0	0	1	0	0	0.33	0.33	0	0
0.67	0.33	0	0.67	0.33	0	0.67	0.67	0.67	0.67
0	0	0	0	0	0	0	0	0	0
0	0.67	1	0	0.67	0.67	1	0.33	0.67	1
1	0.67	0.33	1	0.67	0.33	0.67	0.67	0.67	0.67
0	0	0	0	0	0	0	0	0	0
0.33	0.33	0.33	0.33	0.33	0.33	0.67	0.67	0.33	0.33
0.67	0.67	0	0.67	0.67	0	0.67	0.67	0.67	0
0	0	0	0	0	0	0	0.33	0.33	0.33
0	0	0	0	0	0	0	0	0	0
1	1	0.67	1	1	0.67	1	1	1	0.67
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0.67	1	1	1
0	0	0	0	0	0	0.33	0	0.67	0.67
0.33	0.33	0	0.33	0.33	0	0.67	1	1	1
0	0	0	0	0	0	0.33	0.33	0.33	0.33
0	0	0	0	0	0	0	0	0	0
0.33	0	0	0.33	0	0	0.33	0.33	0.33	0.33
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0.67	0.33	0	0.67	0	0	0.67	0.67	0.33	0.33
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0.67	0.33	0	0.67	0.33	0	0.67	1	0.33	0.33

0	0	0	0	0	0	0	0	0	0
0.67	0	0	0.67	0	0	0.67	0.67	0.33	0.33
1	0.67	0.33	1	0.67	0.33	1	1	0.67	0.33
0	0	0	0	0	0	0	0	0	0
0.33	0	0	0.33	0	0	0	0	0	0
0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
1	0.67	0.33	1	0.67	0.33	0	1	0.67	0.67
0	0	0	0	0	0	0	0.33	0.33	0
1	0.67	0.33	1	0.67	0.33	0.33	1	0.67	0.67
0	0	0	0	0	0	0	0	0	0
1	1	0.67	1	1	0.67	0	0.67	0.67	0.33
1	0.67	0.33	1	0.67	0.33	0.67	0.67	0.33	0.33
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0.67	0.67	0.67
0.33	0.33	0.33	0.33	0.33	0.33	0.67	0.33	0.33	0.33
0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
0	0	0	0	0	0	0.33	0.33	0.33	0.33
0.33	0	0	0.33	0	0	0.67	0.33	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
0	0	0	0	0	0	0	0	0	0
0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
1	0.67	0.67	1	0.67	0.67	0.67	1	0.67	0.67
0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0.67	0	0	0
0.33	0	0	0.33	0	0	0.33	0.33	0	0
0.67	0.33	0	0.33	0	0	0.67	0.33	0.33	0
0.67	1	0.33	0.67	1	0.33	1	1	1	0.33
0.33	0.33	0.33	1	1	0.67	1	1	0.67	0.33
0	0	0	0	0	0	0	0	0	0
1	1	0.67	1	0.67	0.33	0.33	0.33	0	0
0.33	0	0	0.33	0	0	0.33	0	0	0
0.33	0.33	0	0.33	0.33	0	0.67	0.33	0.33	0
1	0.67	0.33	1	0.67	0.33	1	1	0.67	0.33
0	0	0	0	0	0	0	0	0	0
0	0.67	1	0.67	1	1	0.33	0	0.67	1
0.33	0.33	0.67	0.67	1	1	0.67	0.33	0.67	0.67
0.33	0.67	0.33	0.33	0.67	0.33	0.67	0.33	0	0
1	1	0.67	1	0.67	0.67	1	0.67	0.67	0.33
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0.67	0.67	0.67	0.67	0.67	0.67	1	1	0.67	0.67



RFR3S	RFR3M	RFR3D	WFR1	WFR2S	WFR2M	WFR2D	WFR3S	WFR3M	WFR3D
1	1	1	1	1	1	1	1	1	1
0	0.33	0.33	1	0	1	1	0	1	1
0	0.33	0.33	0.67	0	0.67	0.67	0	0.67	0.67
0	1	1	0.33	0	1	1	0	1	1
1	1	1	0.67	1	1	1	1	1	1
1	0	0	1	1	1	1	1	1	1
0.67	0.33	0.33	0	0.67	0.67	0.67	1	1	1
1	1	1	1	1	1	1	1	1	1
1	0.67	0.67	0.33	0.67	0.67	0.67	1	1	1
0	0	0	0	0	0	0	0	0	0
0	0	0	0.67	0.67	0.67	0.33	0.67	0.67	0.33
0.67	0.33	0.33	1	1	0.67	0.67	1	0.67	0.67
0.33	0.33	0.33	0.33	0.67	1	1	1	1	1
0	0	0	0.67	0.67	0.67	0.33	0.67	0.67	0.33
0.67	0.67	0.33	0	1	1	0.67	1	1	0.67
0.33	0.33	0.33	0	0.33	0.33	0.33	0.33	0.33	0.33
0.67	0.67	0.67	0	1	1	0.67	1	1	0.67
0	0	0	0.33	1	1	0.67	1	1	0.67
0.33	1	1	0	0.33	0.33	0.33	0.33	1	1
0	0	0	0.67	0.33	0.67	0.67	0.33	0.67	0.67
0.33	0.67	0.67	0	0.67	1	1	0.67	1	1
0.33	0	0	1	1	0	0	1	0	0
0.33	0	0	0.33	0.33	0	0	0.33	0	0
1	1	1	1	1	1	1	1	1	1
0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
0	0	0	1	1	1	1	1	1	1
0	0	0	0.67	0.67	0.33	0	0.67	0.33	0
0.33	0.33	0.33	1	1	0.33	0	1	0.33	0
0	0	0	0.67	0.67	0.33	0	0.67	0.33	0
0	0	0	0	1	0.67	0.33	1	0.67	0.33
0.67	0.67	0.67	0.33	1	0.67	0.33	1	0.67	0.33
1	0.67	0.33	0	0.33	0.33	0.33	0.33	0.33	0.33
1	0.67	0.67	0.33	1	1	0.67	1	1	0.67
1	0.67	0.67	0.33	1	1	0.67	1	1	0.67
0.67	0.67	1	0	0	0	0	0	0	0
0.67	0.67	0.67	0.33	0.67	0.67	0.67	1	1	0.67
0.33	0.67	0.67	0.33	0.33	0.67	0.67	0.67	1	1
1	0.67	0.67	0.33	0.33	0.67	0.67	1	1	1
1	1	1	0.67	1	1	1	1	1	1
1	1	1	0	0.33	0.33	0.67	0.33	0.67	1
0.67	0.33	0.33	1	0.67	0.67	0.33	0.67	0.67	0.33
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0.33	0.33	0	0	0.33	0.33	0

0	0	0	0.33	1	1	0.67	1	1	0.67
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	1	1	0.67	0.33	1	0.67	0.33
0.67	1	1	1	0.33	1	1	0.33	1	1
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0.67	0.67	0.67	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1	1	1
1	1	0.67	0.33	1	1	0.67	1	1	0.67
0	0	0	0	0	0	0	0	0	0
1	1	1	0	0.67	0.67	0.67	1	1	1
0.33	0.33	0.33	0.33	0.67	1	1	1	1	1
0	0	0	0	0.67	0.67	0.67	1	1	1
0.67	1	1	0.33	0	1	1	0	1	1
0	0	0	0	0	0	0	0	0	0
0	0	0	0.33	0.33	0	0	0.33	0	0
0	0	0	0	0	0	0	0	0	0
0.33	0.67	0.67	0.67	0.33	0.67	0.67	0.33	0.67	1
0.67	1	1	0.67	0.67	1	1	0.67	1	1
0.33	0.33	0.33	1	1	1	0.67	1	1	0.67
0	0	0	0	0	0	0	0	0	0
0.33	0.33	0.33	0	0.67	0.33	0	0.67	0.33	0
0.33	0	0	1	1	0	0	0	0	0
0.67	0.67	0.67	1	1	0.67	0.33	1	0.67	0.33
0	0	0	0.33	0	0.33	0.33	0	0.33	0.33
0.33	1	1	1	0.67	1	1	0.67	1	1
0.67	0.67	0.67	1	1	0.67	0.33	1	0.67	0.33
0	0	0	0.33	0.33	0.33	0	0.33	0.33	0
0.33	0.33	0.33	0.67	0.67	0.67	0.33	0.67	0.67	0.33
0.67	0.67	0.33	0.33	0.33	0.33	0	0.33	0.33	0
0.33	0.33	0.33	1	1	0.67	0.33	0	0	0
0	0	0	1	1	1	0.33	0	0	0
1	1	1	1	1	1	0.67	1	1	0.67
0	0	0	0.33	0.33	0.33	0.33	0.33	0.33	0.33
0.33	0.33	0.33	0.67	1	1	1	1	1	1
0	0.67	0.67	0	0	0	0	0	0	0
1	1	1	0.67	1	1	1	1	1	1
0.33	0.33	0.33	0.67	0.67	0.67	0.33	0.67	0.67	0.33
0	0	0	0.33	0.33	0	0	0.33	0	0
0.33	0.33	0.33	1	1	0	0	0.67	0	0
0	0	0	0.67	0.33	0.33	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0.67	0.33	0.33	1	1	0.67	0	1	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
1	0.33	0.33	1	1	0.67	0	1	0.33	0

0	0	0	0.33	0.33	0	0	0.33	0	0
0.67	0.33	0.33	0.33	0.33	0	0	0.33	0	0
1	1	1	1	1	0.67	0.33	1	0.67	0.33
0	0	0	0.33	0.33	0	0	0.33	0	0
0	0	0	0.67	0.33	0.67	0.67	0.33	0.67	0.67
0.33	0.33	0.33	0.67	0.67	0.33	0.33	0.67	0.33	0.33
1	0.67	0.67	0	0	0	0	0	0	0
0.33	0.33	0	0	0.67	1	0.67	0.67	1	0.67
1	0.67	0.67	0.33	0.67	0.33	0	1	0.33	0
0	0	0	0.67	0.67	0	0	0.67	0	0
0.67	0.33	0.33	0	0.33	0.33	0.33	0.67	0.67	0.33
0.67	0.67	0.33	0.33	0.67	0.33	0	0.67	0.33	0
0	0	0	0.33	0.33	0	0	0.33	0	0
0.67	0.67	0.67	0	0.67	1	1	0.67	1	1
0.33	0.33	0.33	0.67	0.33	0	0	0.33	0	0
0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
0.33	0.33	0.33	0.67	0.67	1	1	0.67	1	1
0.33	0	0	0.67	0.33	0	0	0.33	0	0
0	0	0	0.33	0.33	0.33	0.33	0.33	0.33	0.33
0	0	0	0.67	0.67	0.67	0.67	0.67	0.67	0.67
0.33	0.33	0.33	0.67	0.67	1	1	1	1	1
0	0	0	0.33	0.33	0.33	0.33	0.33	0.33	0.33
0.33	0.33	0.33	0.67	0.67	0.67	0.67	0.67	0.67	0.67
1	0.67	0.67	0.67	1	0.67	0.67	1	0.67	0.67
0.67	0.67	0.67	1	1	1	1	1	1	1
0	0	0	0.33	0.33	0.33	0.33	0.33	0.33	0.33
0	0	0	0.33	0.33	0.33	0.33	0.33	0.33	0.33
0	0	0	0.33	0	0	0	0	0	0
0.33	0	0	0.67	0.33	0	0	0.33	0	0
0.33	0	0	1	1	0.67	0	0.67	0	0
1	1	0.33	1	1	1	0.33	1	1	0.33
1	0.67	0.33	1	1	0.67	0.33	1	1	0.33
0	0	0	1	1	0.67	0.33	1	0.67	0.33
0.33	0	0	0.67	0.67	0.33	0.33	0.67	0.67	0.33
0	0	0	0.33	0	0	0	0	0	0
0.33	0.33	0	1	0.67	0.33	0.33	0.67	0.33	0.33
1	0.67	0.33	1	1	0.67	0.33	1	0.67	0.33
0	0	0	0.33	0.33	0.67	0.67	0.67	0.67	0.33
0.67	1	1	0.33	0	0.67	1	0.67	1	1
0.67	1	1	0.67	0.33	0.67	1	0.67	1	1
0.33	0	0	0.67	0.33	0	0	0.33	0	0
0.67	0.67	0.33	1	0.67	0.67	0.67	0.67	0.67	0.67
0	0	0	1	0.67	0	0	0.67	0	0
0	0	0	0.67	0.67	0.67	0.33	0.67	0.67	0.33
0	0	0	0	0	0	0	0	0	0
0	0	0	1	1	0.33	0.33	0.67	0.67	0.33
1	0.67	0.33	0.67	0.67	0.33	0.33	0.67	0.67	0.67





SMC1	SMC2S	SMC2M	SMC2D	SMC3S	SMC3M	SMC3D	SCN1	SCN2S	SCN2M
1	1	1	1	1	1	1	0	0	0
1	0	1	1	0	1	1	0	0	0
0.67	0	0.67	0.67	0	0.67	0.67	0	0	0
0.33	0	1	1	0	1	1	0.67	0.33	1
0.67	1	1	1	1	1	1	0	0	0
1	1	1	1	1	1	1	1	1	0
0	0.67	0.67	0.67	1	1	1	0	0	0
1	1	1	1	1	1	1	0	0	0
0.33	0.67	0.67	0.67	1	1	1	0.33	0.67	0.67
0.67	0.67	0.33	0.33	0.67	0.33	0.33	0	0	0
0.67	0.67	0.67	0.33	0.67	0.67	0.33	0	0	0
1	1	0.67	0.67	1	0.67	0.67	1	1	0.67
0.33	0.67	1	1	1	1	1	0	0	0
0.67	0.67	0.67	0.33	0.67	0.67	0.33	0	0	0
0	1	1	0.67	1	1	0.67	0	0	0
0	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
0	1	1	0.67	1	1	0.67	0	0	0
0.33	1	1	0.67	1	1	0.67	0	0	0
0	0.33	0.33	0.33	0.33	1	1	0	0	0
0.67	0.33	0.67	0.67	0.33	0.67	0.67	0	0	0
0	0.67	1	1	0.67	1	1	0	0	0
1	1	0	0	1	0	0	0	0	0
0.33	0.33	0	0	0.33	0	0	0	0	0
1	1	1	1	1	1	1	0	0	0
0.33	0.33	0.33	0.33	0.33	0.33	0.33	0	0	0
1	1	1	1	1	1	1	0	0	0
0.67	0.67	0.33	0	0.67	0.33	0	0	0	0
1	1	0.33	0	1	0.33	0	0.33	0.67	0.33
0	0	0	0	0	0	0	0	0	0
0	1	0.67	0.33	1	0.67	0.33	0	0	0
0.33	1	0.67	0.33	1	0.67	0.33	0	0	0
0	0.33	0.33	0.33	0.67	0.67	0.33	0	0	0
0.33	1	1	0.67	1	1	0.67	0.67	0.67	0.67
0.33	1	1	0.67	1	1	0.67	0	0.33	0.33
0	0.33	0.33	0.33	0.33	0.33	0.33	0	0.67	0.67
0.33	0.67	0.67	0.67	1	1	0.67	0	0.33	0.33
0.33	0.33	0.67	0.67	0.67	1	1	0	0	0
0.67	0.67	0.67	0.67	1	1	1	0	0	0
0.67	1	1	1	1	1	1	0.33	0.33	0.33
0	0	0.33	0.67	0.33	1	1	0	0	0
1	0.67	0.67	0.33	0.67	0.67	0.33	1	1	0.67
1	0.33	1	1	0.33	1	1	0	0	0
0	0	0	0	0	0	0	0	0	0
0.33	0.67	0	0	1	1	0	0	0	0

0.33	1	1	0.67	1	1	0.67	0	0	0
0	0	0	0	0	0	0	0	0	0
0.33	0.33	0.33	0.33	0.33	0.33	0.33	0	0	0
1	1	0.67	0.33	1	0.67	0.33	0	0	0
1	0.33	1	1	0.33	1	1	0.33	0	0.33
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0.33	0.67	0.67
1	1	1	1	1	1	1	1	0.67	0.67
1	1	1	0.67	1	1	0.67	0.33	0.67	0.67
0.33	0.33	0.33	0.33	0.33	0.33	0.33	0	0	0
0.67	0.67	0.67	0.67	1	1	1	0	0	0
0.33	0.33	0.67	0.67	0.67	0.67	0.67	0	0.33	0.33
0	0.67	0.67	0.33	1	1	0.33	0	0	0
0.33	0.33	1	1	0.33	1	1	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0.67	0.33	0.67	0.67	0.33	0.67	1	0	0	0
0.67	0.67	1	1	0.67	1	1	0.33	0.33	0.33
0.67	0.67	0.67	0.33	0.67	0.67	0.33	1	1	1
0	0	0	0	0	0	0	0	0	0
0	0.67	0.33	0	0.67	0.33	0	0	0	0
0.33	0.33	0	0	0.33	0	0	0.67	0.67	0
1	1	0.67	0.33	1	0.67	0.33	0	0	0
0.33	0	0.33	0.33	0	0.33	0.33	0	0	0
1	0.67	1	1	0.67	1	1	1	0	0.67
1	1	0.67	0.33	1	0.67	0.33	0.67	0.67	0.33
0.33	0.33	0.33	0	0.33	0.33	0	0	0	0
0.67	0.67	0.67	0.33	0.67	0.67	0.33	0	0	0
1	1	1	0.33	1	1	0.33	0	0	0
1	1	0.67	0.33	0.67	0.67	0.33	0	0	0
0.67	0.67	0.67	0.33	0	0	0	0	0	0
1	1	1	0.67	1	1	0.67	0.67	0.67	0.67
0.33	0.33	0.33	0.33	0.33	0.33	0.33	0	0	0
0.67	1	1	1	1	1	1	0	0	0
0.33	0	0.67	0.67	0	0.67	0.67	0	0	0
1	1	1	1	1	1	1	0	0	0
0.67	0.67	0.67	0.33	0.67	0.67	0.33	0	0	0
0.33	0.33	0	0	0.33	0	0	0	0	0
0.67	0.67	0.33	0	0.67	0.33	0	0	0	0
0.67	0.33	0.33	0.33	0.33	0.33	0.33	0	0	0
0	0	0	0	0	0	0	0	0	0
1	1	0.67	0.33	1	0.67	0.33	0.33	0.33	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
1	1	0.67	0.33	1	0.67	0.33	0	0	0

0.67	0.67	0	0	0.67	0	0	0	0	0
0.67	0.67	0.33	0	0.67	0.33	0	0	0	0
1	1	0.67	0.33	1	0.67	0.33	1	1	0.67
0	0	0	0	0	0	0	0	0	0
0.67	0.33	0.67	0.67	0.33	0.67	0.67	0	0	0
0.67	0.67	0.67	0.33	0.67	0.67	0.33	0	0	0
0	0	0	0	0	0	0	0	0.67	0.33
0	0.67	1	0.67	0.67	1	0.67	0	0	0
0.67	0.67	0.33	0.33	0.67	0.33	0.33	0.33	1	0.67
0	0	0	0	0	0	0	0	0	0
0	0.33	0.33	0.33	0.67	0.67	0.33	0	0.33	0.33
0.33	0.67	0.67	0.33	0.67	0.67	0.33	0.33	0.67	0.33
0.33	0.33	0.33	0.33	0.33	0.33	0.33	0	0	0
0	0.67	1	1	0.67	1	1	0	0	0
0.67	0.33	0	0	0.33	0	0	0.33	0.33	0.33
0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.67	0.67	0.67
0.67	0.67	1	1	0.67	1	1	0	0	0
0.67	0.33	0	0	0.33	0	0	0	0	0
0.33	0.33	0.33	0.33	0.33	0.33	0.33	0	0	0
0.67	0.67	0.67	0.67	0.67	0.67	0.67	0	0	0
0.67	0.67	1	1	1	1	1	0.33	0.33	0.33
0.33	0.33	0.33	0.33	0.33	0.33	0.33	0	0	0
0.67	0.67	0.67	0.67	0.67	0.67	0.67	0	0	0
0.67	1	0.67	0.67	1	0.67	0.67	0	0	0
1	1	1	1	1	1	1	0.33	0.33	0.33
0.33	0.33	0.33	0.33	0.33	0.33	0.33	0	0	0
0.33	0.33	0.33	0.33	0.33	0.33	0.33	0	0	0
0.33	0	0	0	0	0	0	0.33	0	0
0.67	0.33	0	0	0.33	0	0	0.33	0.33	0
1	1	0.67	0	0.67	0	0	1	1	0.67
1	1	1	0.33	1	1	0.33	1	1	1
1	1	0.67	0.33	1	1	0.33	0.33	0.33	0.33
1	1	0.67	0.33	1	0.67	0.33	0	0	0
0.67	0.67	0.33	0.33	0.67	0.67	0.33	0.33	0.33	0.33
0.33	0	0	0	0	0	0	0.67	0.33	0
1	0.67	0.33	0.33	0.67	0.33	0.33	0.67	0.33	0.33
1	1	0.67	0.33	1	0.67	0.33	1	1	0.67
0.33	0.33	0.67	0.67	0.67	0.67	0.33	0	0	0
0.33	0	0.67	1	0.67	1	1	0.33	0	0.67
0.67	0.33	0.67	1	0.67	1	1	0.67	0.33	0.33
0.67	0.33	0	0	0.33	0	0	0.67	0.33	0
1	0.67	0.67	0.67	0.67	0.67	0.67	1	0.67	0.67
1	0.67	0	0	0.67	0	0	0.67	0.67	0.33
0.67	0.67	0.67	0.33	0.67	0.67	0.33	0	0	0
0	0	0	0	0	0	0	0	0	0
1	1	0.33	0.33	0.67	0.67	0.33	0	0	0
0.67	0.67	0.33	0.33	0.67	0.67	0.67	1	0.67	0.67



SCN2D	SCN3S	SCN3M	SCN3D
0	0	0	0
0	0	0	0
0	0	0	0
1	0.33	1	1
0	0	0	0
0	1	0	0
0	0.33	0.33	0.33
0	0	0	0
0.67	0.67	0.67	0.67
0	0	0	0
0	0	0	0
0.67	1	0.67	0.67
0	0	0	0
0	0	0	0
0	0.33	0.33	0.33
0	0.33	0.33	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0.67	0.33	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0.67	1	1	0.67
0	0.33	0.33	0
0.33	0.67	0.67	0.33
0	0.33	0.33	0
0	0	0	0
0	0	0	0
0.33	0.33	0.33	0.33
0	0	0	0
0.33	1	0.33	0
0	0	0	0
0	0	0	0
0	0	0	0

0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0.33	0	0.33	0.33
0	0	0	0
0	0	0	0
0.67	1	1	1
0.67	0.67	0.67	0.67
0.33	0.67	0.67	0.33
0	0	0	0
0	0	0	0
0.33	0.67	0.67	0.67
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0.67	0.33	0.67	0.67
0.67	1	1	0.67
0	0	0	0
0	0	0	0
0	0.67	0	0
0	0	0	0
0	0	0	0
1	0	0.67	0.67
0.33	0.67	0.33	0.33
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0.33	0	0
0	0	0	0
0	0	0	0
0	0	0	0

0	0	0	0
0	0	0	0
0.33	1	0.67	0.33
0	0	0	0
0	0	0	0
0	0	0	0
0.33	0.67	0.33	0.33
0	0	0	0
0.33	1	0.67	0.33
0	0	0	0
0.33	0.33	0.33	0.33
0.33	0.67	0.33	0.33
0	0	0	0
0	0	0	0
0.33	0.33	0.33	0.33
0.67	0.67	0.67	0.67
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0.33	0.33	0.33	0.33
0	0	0	0
0	0	0	0
0	0	0	0
0.33	0.33	0.33	0.33
0	0	0	0
0	0	0	0
0	0	0	0
0	0.33	0	0
0.33	0.67	0	0
0.33	1	1	0.33
0.33	1	1	0.67
0	0	0	0
0.33	0.33	0	0
0	0.33	0	0
0	0.33	0.33	0
0.33	1	0.67	0.33
0	0	0	0
1	0.67	1	1
0.67	0.67	1	1
0	0.33	0	0
0.33	0.67	0.67	0.33
0	0.67	0.33	0
0	0	0	0
0	0	0	0
0	0	0	0
0.67	0.67	0.67	0.33

0.33	0.67	0.33	0.33
0.33	0.67	0.33	0
0.33	0.67	0.67	0.33
0.33	0.67	0.33	0.33
0.67	0.67	0.67	0.33
0.67	0.67	1	1
1	0.67	1	1
1	0	0.67	1
1	0.67	1	1
0.33	0.67	0.33	0.33
0	0	0	0
0	0	0	0
0	0	0	0
0.67	0.33	0.67	0.33
0.33	0.33	0.33	0.33
0.33	0.67	0.33	0.33
0	0	0	0
0	0	0	0
0	0.33	0.33	0
0	0	0	0
0	0	0	0