B.26 Montana

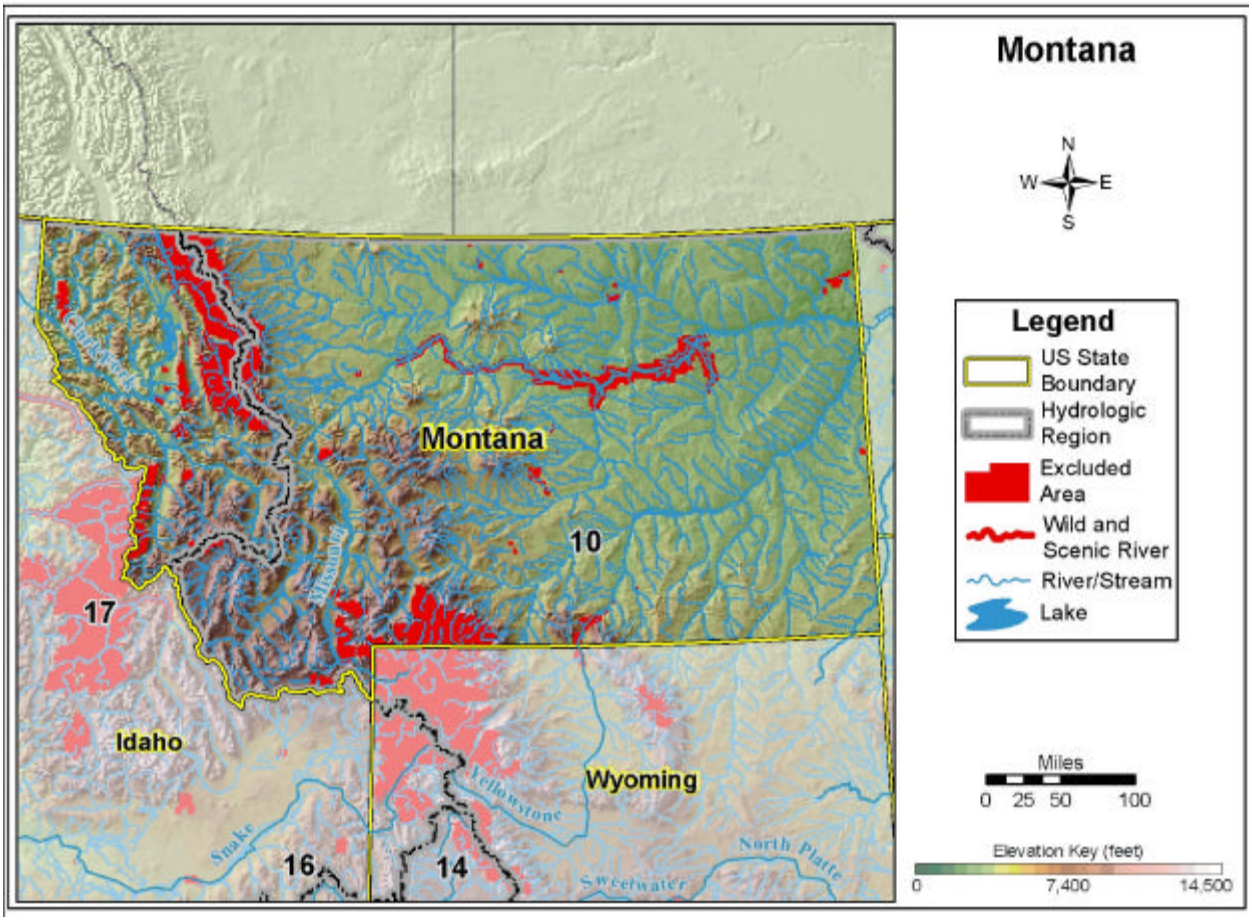
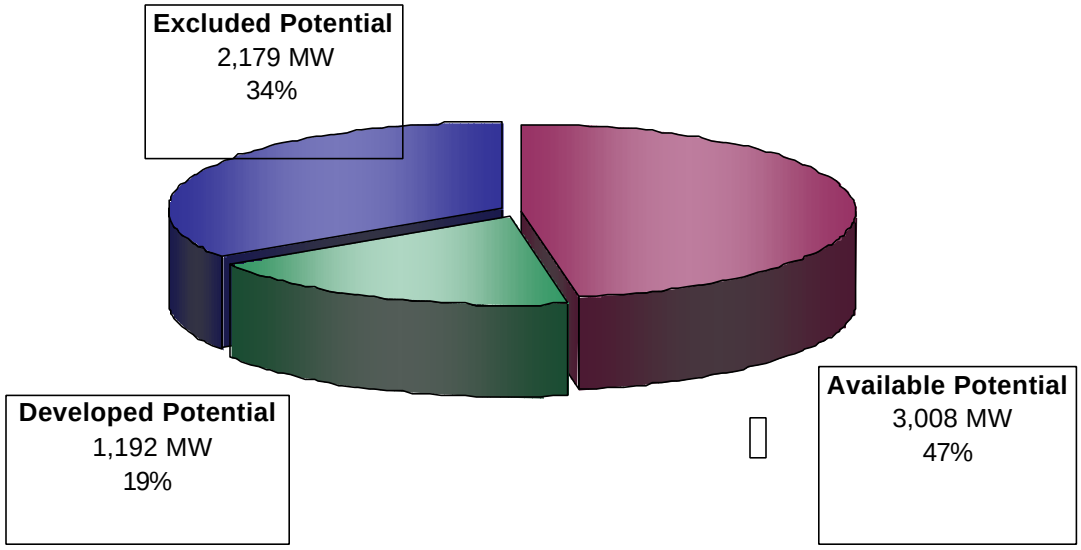


Figure B-126. Montana.

Table B-26. Summary of results of hydropower resource assessment of Montana.

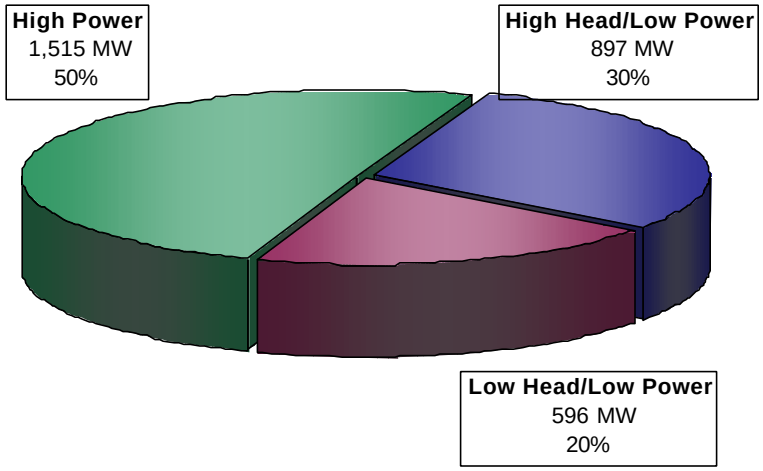
Annual Mean Power (MW)	Total	Developed	Excluded	Available[a]
TOTAL POWER	**6,379**	**1,192**	**2,179**	**3,008**
TOTAL HIGH POWER	**4,602**	**1,188**	**1,899**	**1,515**
High Head/High Power	**3,721**	**1,179**	**1,762**	**780**
Low Head/High Power	**881**	**9**	**137**	**735**
TOTAL LOW POWER	**1,777**	**4**	**280**	**1,493**
High Head/Low Power	**1,140**	**4**	**239**	**897**
Low Head/Low Power	**637**	**0**	**41**	**596**
Conventional Turbine	222	0	14	208
Unconventional Systems	106	0	15	91
Microhydro	309	0	12	297

a. No feasibility or availability assessments have been performed. “Available" only indicates net potential after subtracting developed and excluded potentials from total potential.



Total Power Potential
6,379 MW

Figure B-127. Power category distribution of the total power potential (annual mean power) of water energy resources in Montana.



Total Available Potential
3,008 MW

Figure B-128. Power class distribution of the available power potential (annual mean power) of water energy resources in Montana.

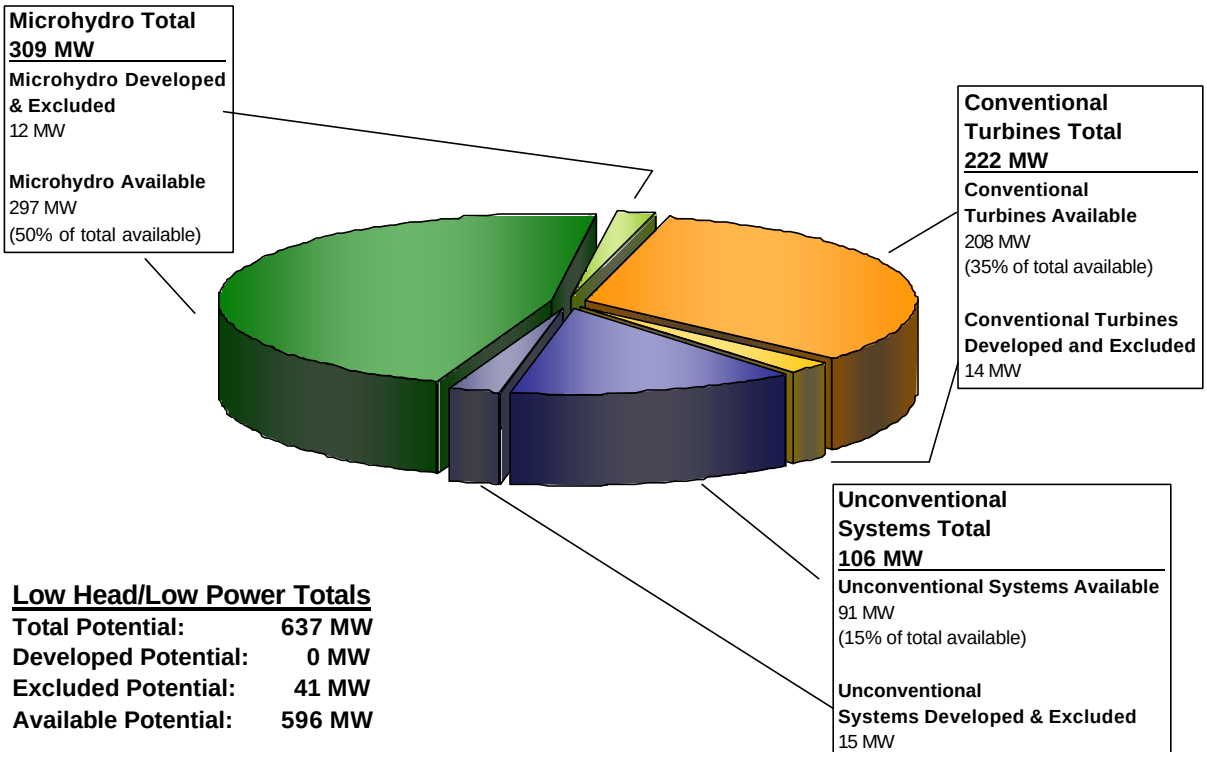


Figure B-129. Distribution of the low head/low power power potential (annual mean power) of water energy resources in Montana among three low head/low power hydropower technology classes.

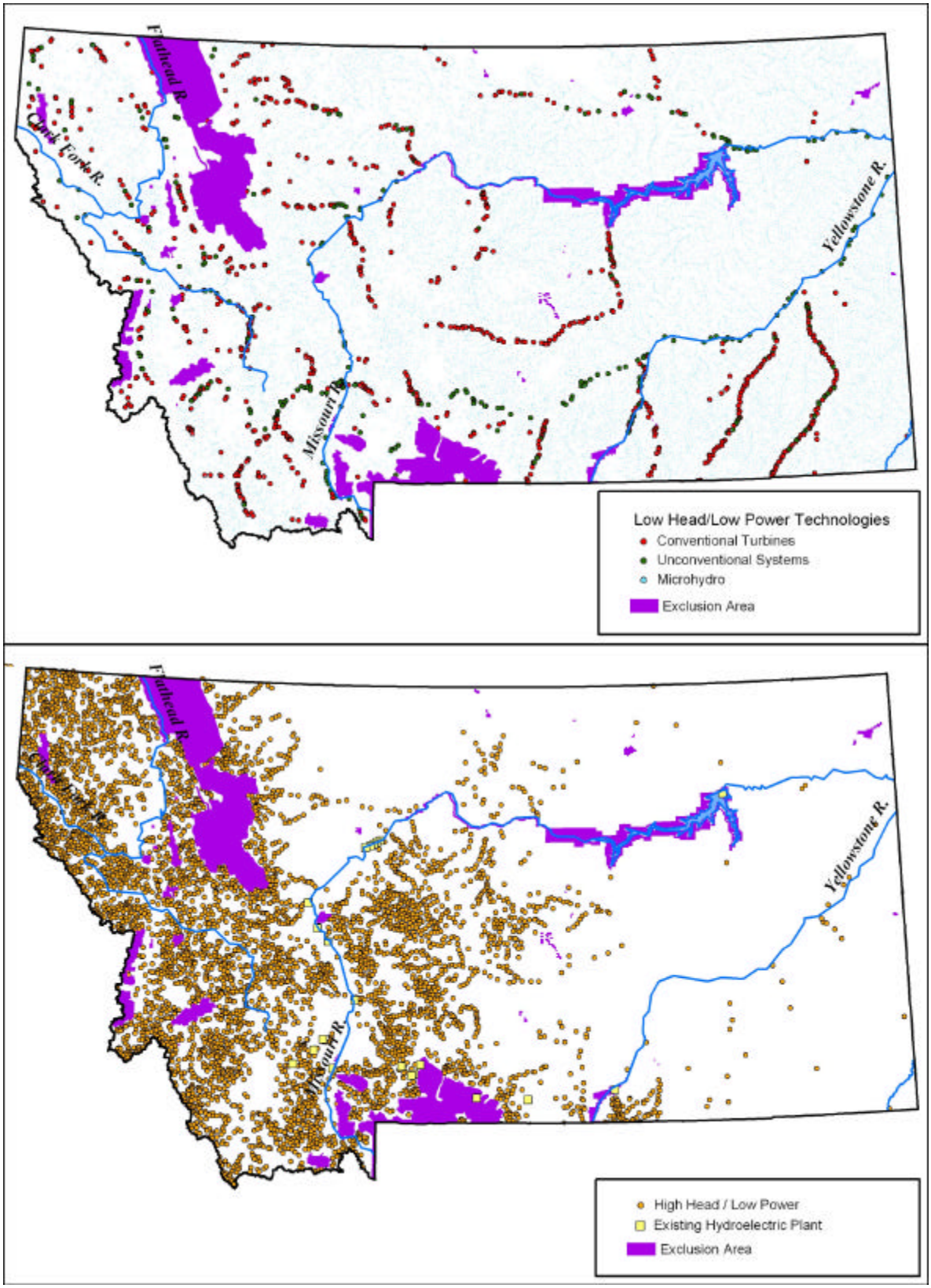


Figure B-130. Low head/low power and high head/low power water energy sites, and existing hydroelectric plants in Montana.

B.27 Nebraska

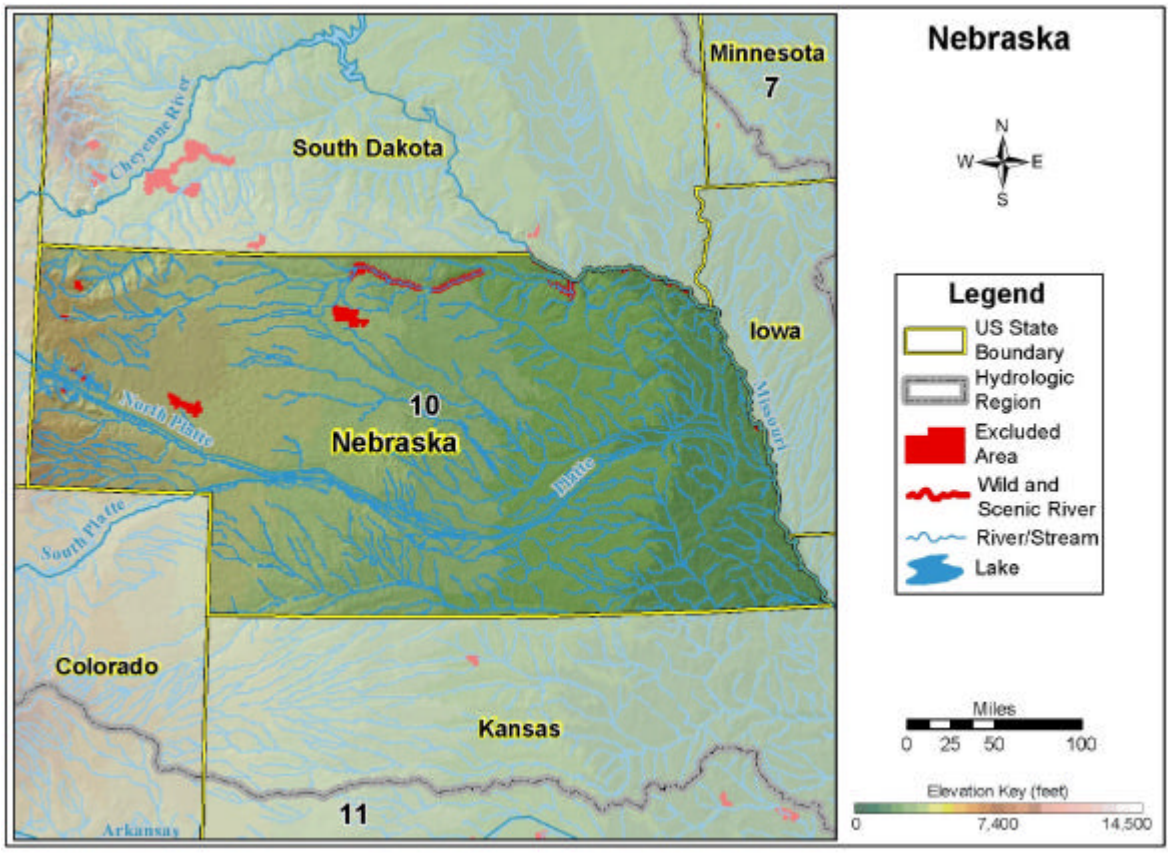


Figure B-131. Nebraska.

Table B-27. Summary of results of hydropower resource assessment of Nebraska.

Annual Mean Power (MW)	Total	Developed[a]	Excluded	Available[a,b]
TOTAL POWER	**1,222**	**152**	**103**	**967**
TOTAL HIGH POWER	**565**	**152**	**65**	**348**
High Head/High Power	**102**	**73**	**29**	**0**
Low Head/High Power	**463**	**79**	**36**	**348**
TOTAL LOW POWER	**657**	**0**	**38**	**619**
High Head/Low Power	**71**	**0**	**2**	**69**
Low Head/Low Power	**586**	**0**	**36**	**550**
Conventional Turbine	306	**0**	26	**280**
Unconventional Systems	78	**0**	7	**71**
Microhydro	202	**0**	3	**199**

a. Developed high head/high power potential exceeded total potential in this power class probably because the developed power is made up of resources in other power classes. “Excess” developed power in the high head/high power class (78 MW) was rolled downward into the low head/high power power class

b. No feasibility or availability assessments have been performed. “Available" only indicates net potential after subtracting developed and excluded potentials from total potential.

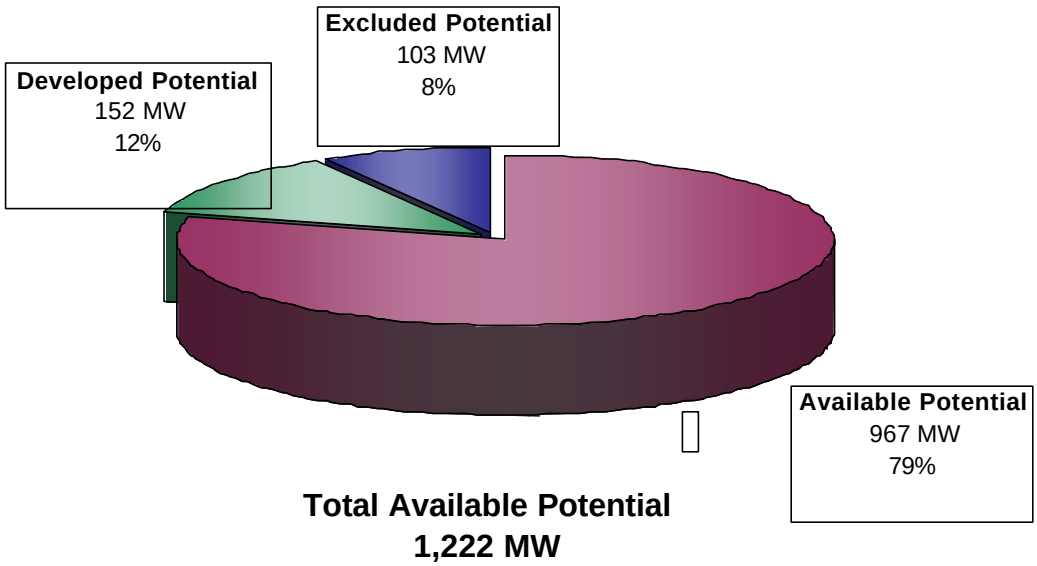


Figure B-132. Power category distribution of the total power potential (annual mean power) of water energy resources in Nebraska.

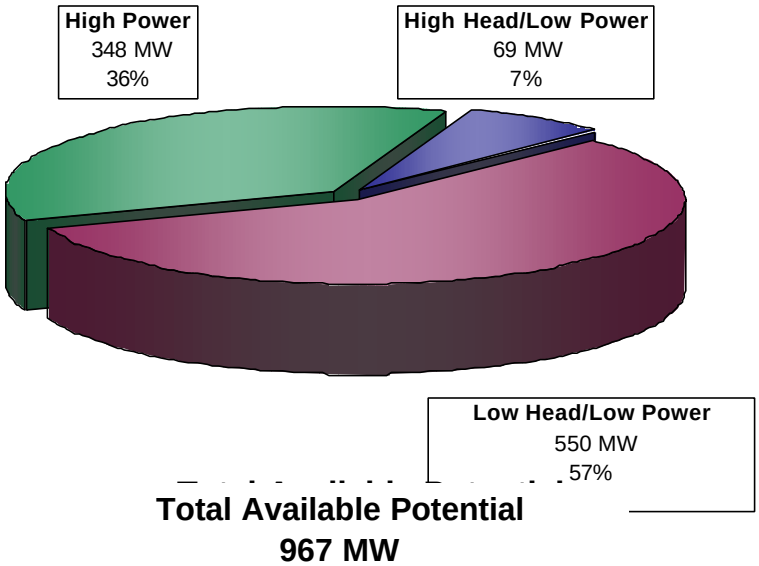


Figure B-133. Power class distribution of the available power potential (annual mean power) of water energy resources in Nebraska.

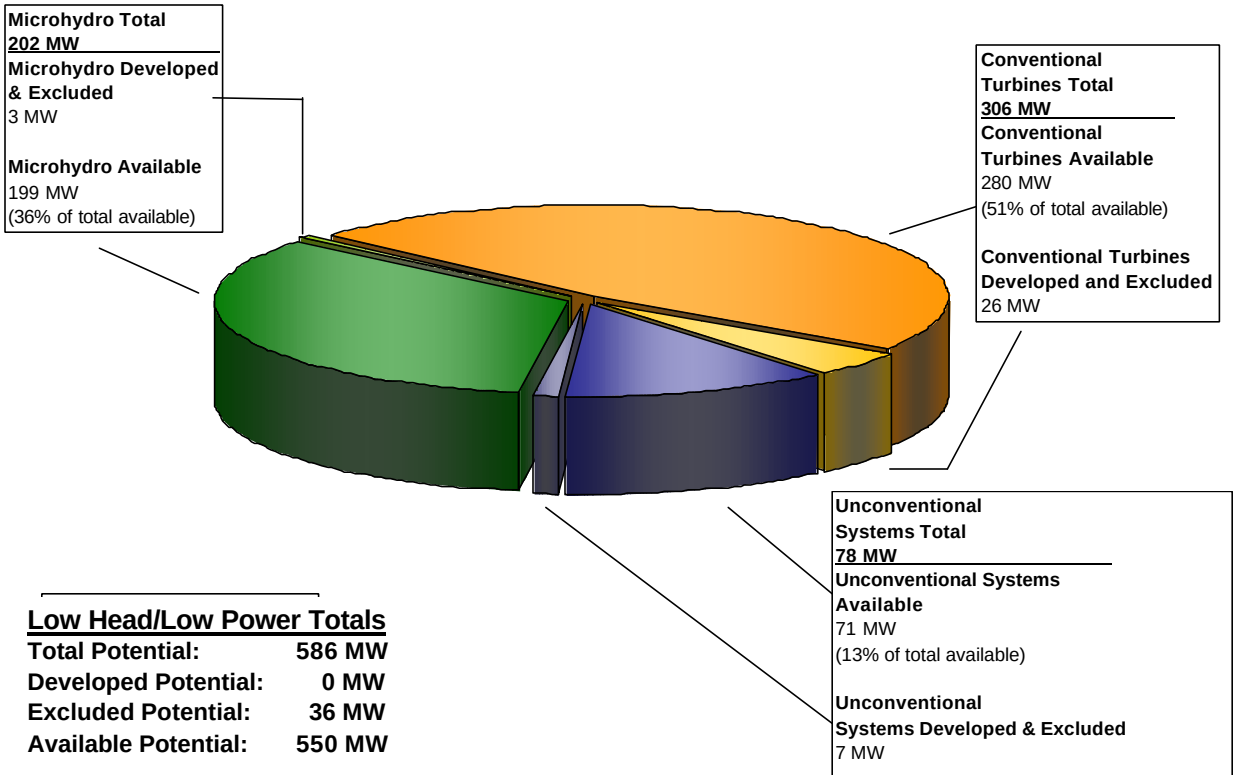


Figure B-134. Distribution of the low head/low power power potential (annual mean power) of water energy resources in Nebraska among three low head/low power hydropower technology classes.

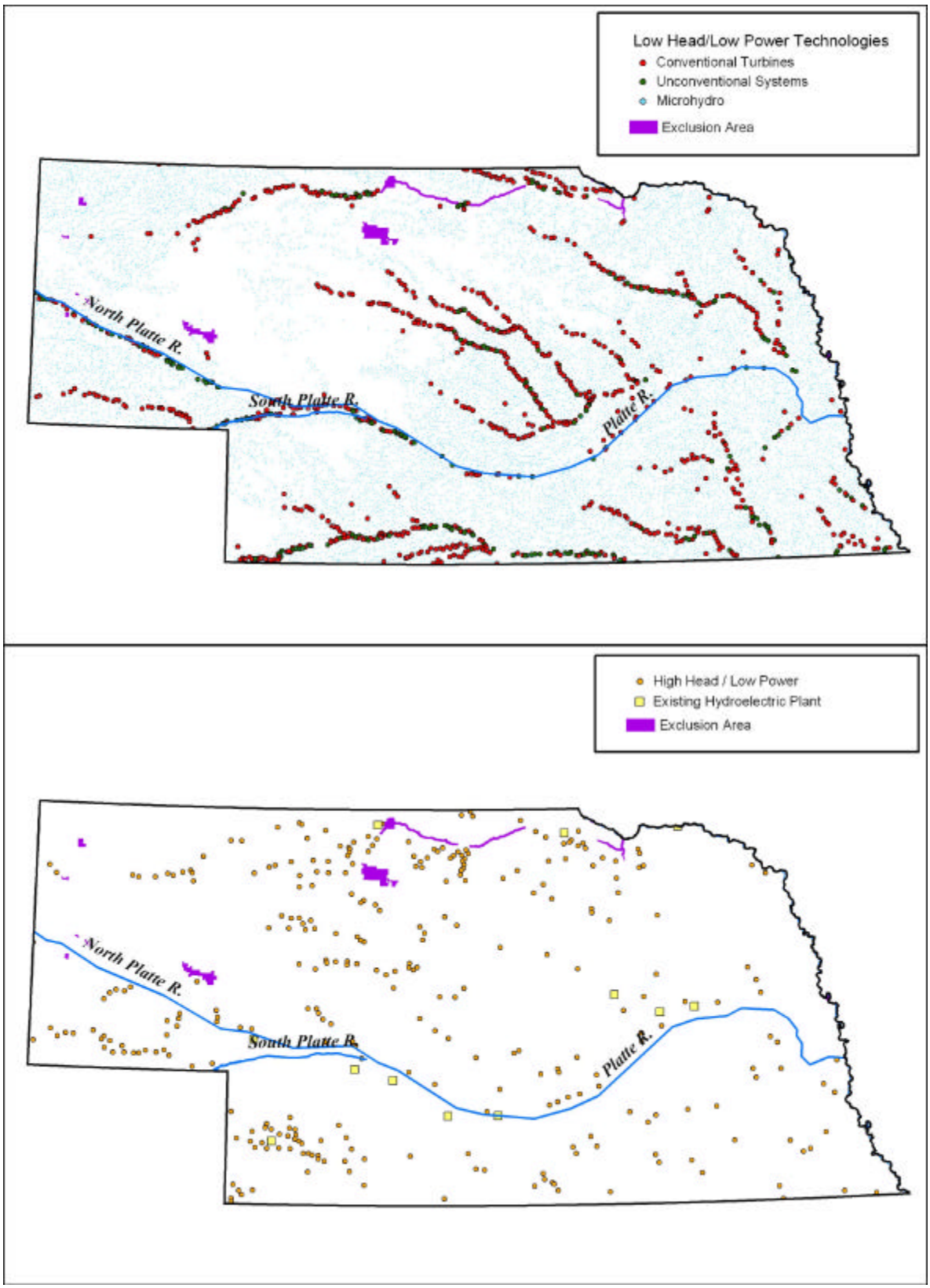


Figure B-135. Low head/low power and high head/low power water energy sites, and existing hydroelectric plants in Nebraska.

B.28 Nevada

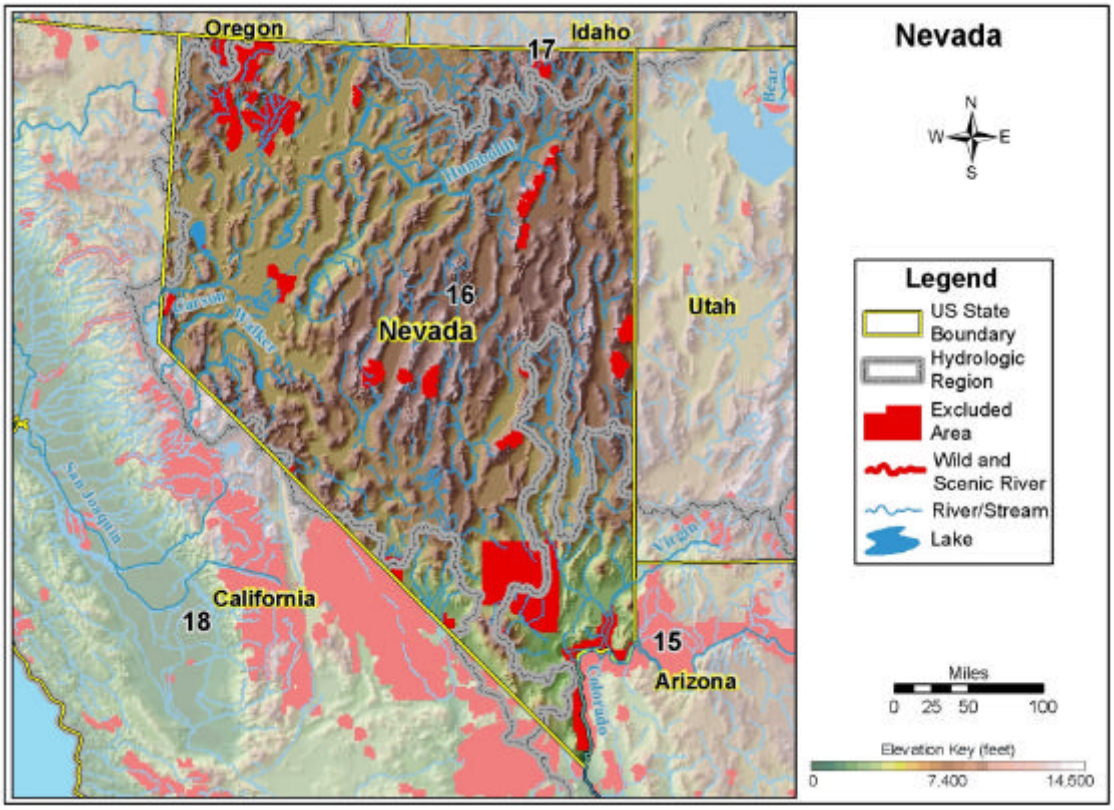


Figure B-136. Nevada.

Table B-28. Summary of results of hydropower resource assessment of Nevada.

Annual Mean Power (MW)	Total	Developed[a]	Excluded[a]	Available[a,b]
TOTAL POWER	**1,137**	**263**	**147**	**727**
TOTAL HIGH POWER	**206**	**206**	**0**	**0**
High Head/High Power	**200**	**200**	**0**	**0**
Low Head/High Power	**6**	**6**	**0**	**0**
TOTAL LOW POWER	**931**	**57**	**147**	**727**
High Head/Low Power	**473**	**29**	**102**	**343**
Low Head/Low Power	**458**	**29**	**45**	**385**
Conventional Turbine	70	29	1	41
Unconventional Systems	9	0	1	8
Microhydro	379	0	43	336

a. Developed high head/high power potential in exclusion zones exceeded the total amount of potential in exclusion zones in this power class by 198 MW probably because the developed power is made up of resources in other power classes. Assuming that all of the excluded potential in this power class has been developed resulted in 61 MW of "excess" developed power in the high head/high power class. This "excess" developed power was rolled downward into lower power classes in this table to the extent that each lower power class could accommodate additional developed power without creating a negative available potential. "Excess" developed power was redistributed proportionally based on the original distribution of developed power among the lower power classes.

b. No feasibility or availability assessments have been performed. "Available" only indicates net potential after subtracting developed and excluded potentials from total potential.

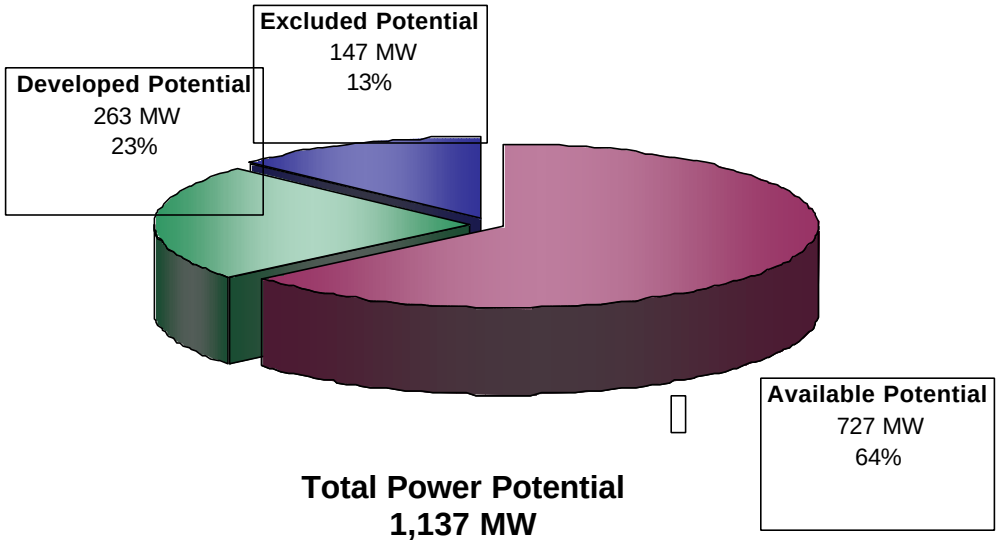


Figure B-137. Power category distribution of the total power potential (annual mean power) of water energy resources in Nevada.

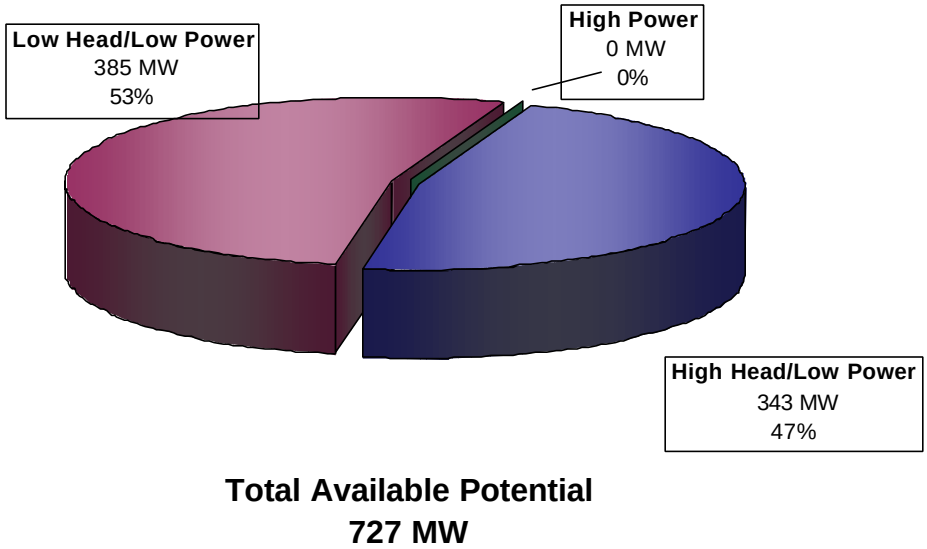


Figure B-138. Power class distribution of the available power potential (annual mean power) of water energy resources in Nevada.

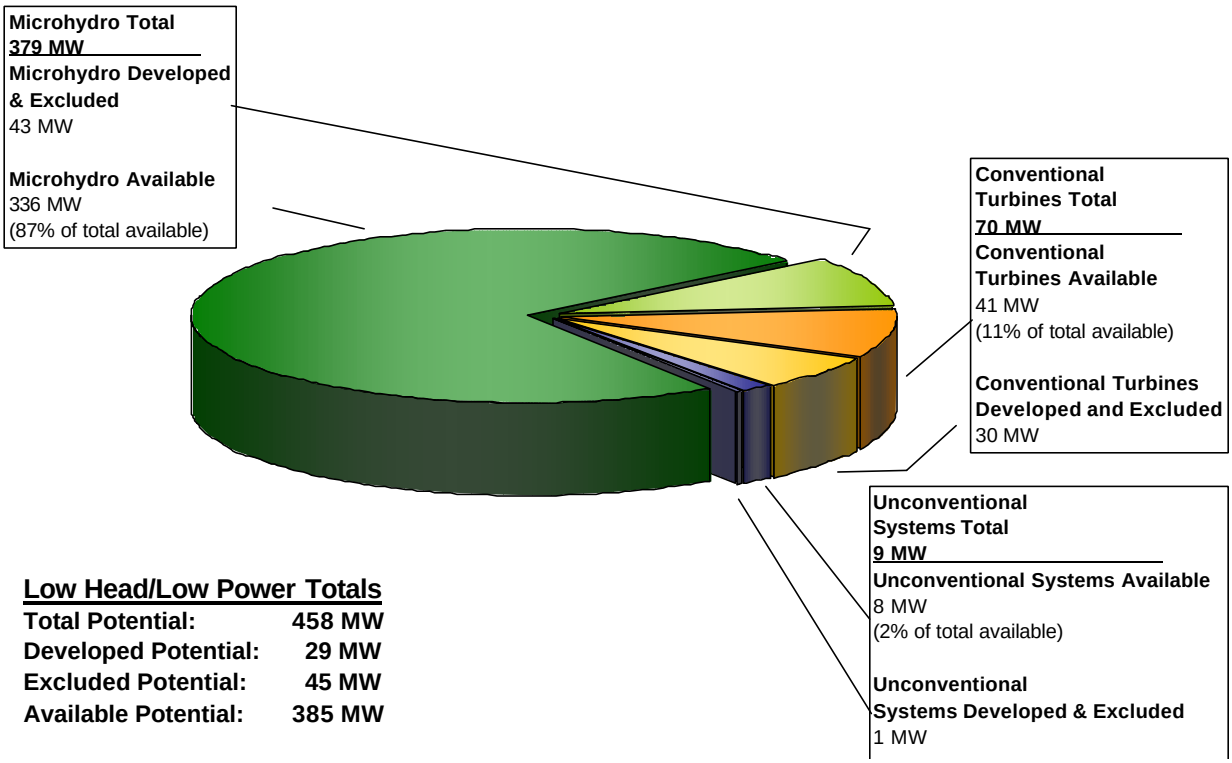


Figure B-139. Distribution of the low head/low power power potential (annual mean power) of water energy resources in Nevada among three low head/low power hydropower technology classes.

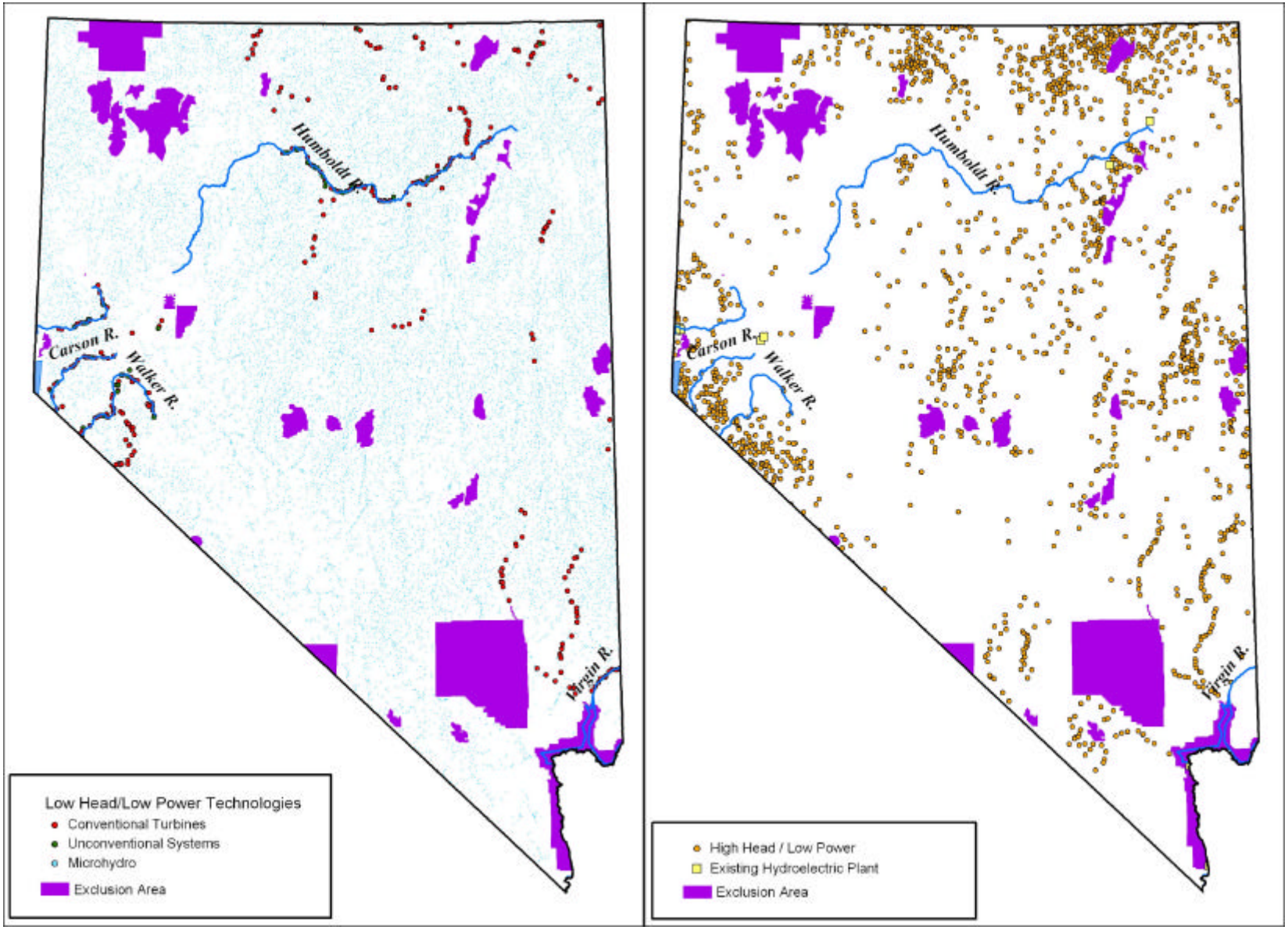


Figure B-140. Low head/low power and high head/low power water energy sites, and existing hydroelectric plants in Nevada.

B.29 New Hampshire

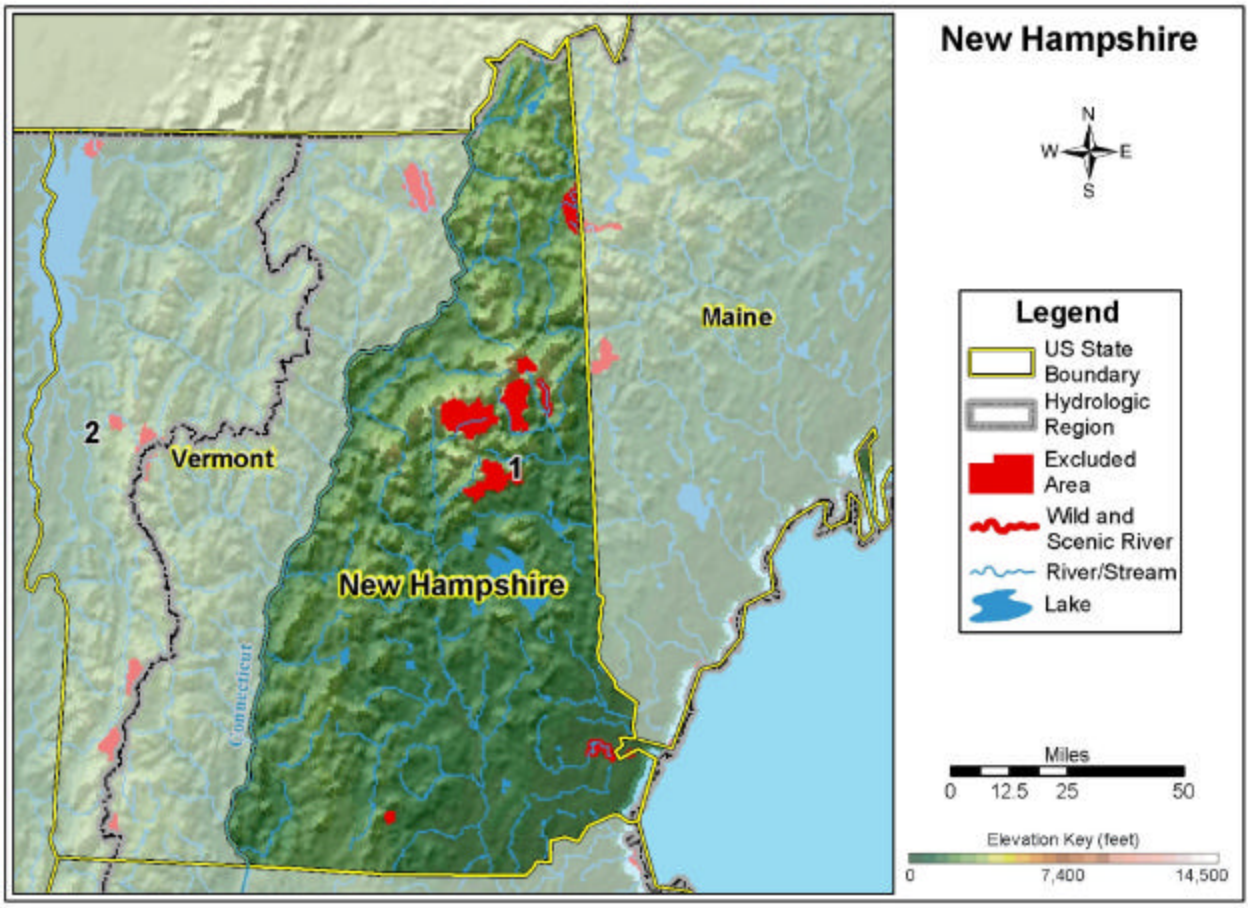


Figure B-141. New Hampshire.

Table B-29. Summary of results of hydropower resource assessment of New Hampshire.

Annual Mean Power (MW)	Total	Developed	Excluded	Available[a]
TOTAL POWER	**1,181**	**187**	**89**	**905**
TOTAL HIGH POWER	**804**	**167**	**59**	**578**
High Head/High Power	**650**	**149**	**52**	**449**
Low Head/High Power	**154**	**18**	**7**	**129**
TOTAL LOW POWER	**377**	**20**	**30**	**327**
High Head/Low Power	**277**	**10**	**28**	**239**
Low Head/Low Power	**100**	**10**	**2**	**88**
Conventional Turbine	44	9	1	34
Unconventional Systems	16	0	0	16
Microhydro	40	1	1	38

a. No feasibility or availability assessments have been performed. "Available" only indicates net potential after subtracting developed and excluded potentials from total potential.

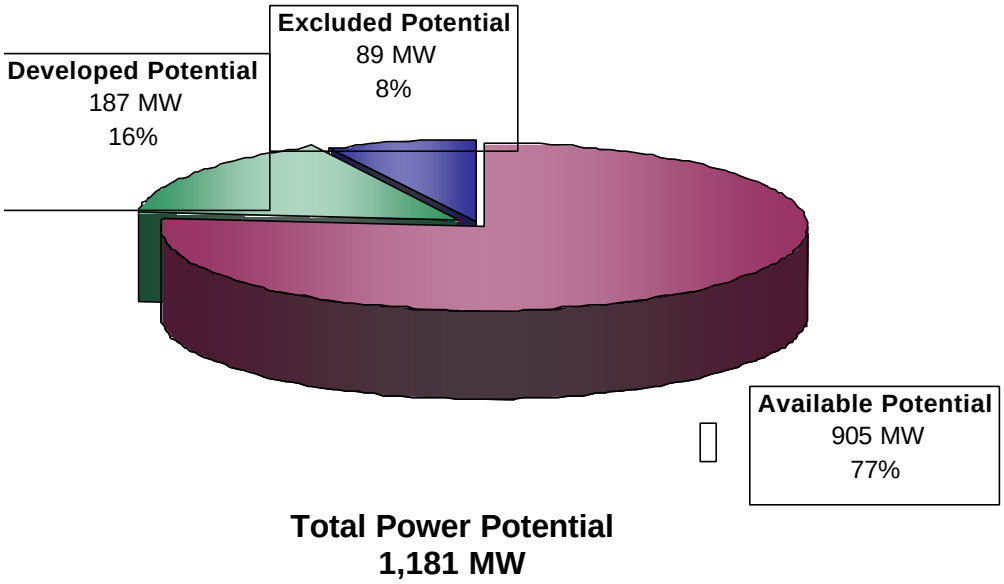


Figure B-142. Power category distribution of the total power potential (annual mean power) of water energy resources in New Hampshire.

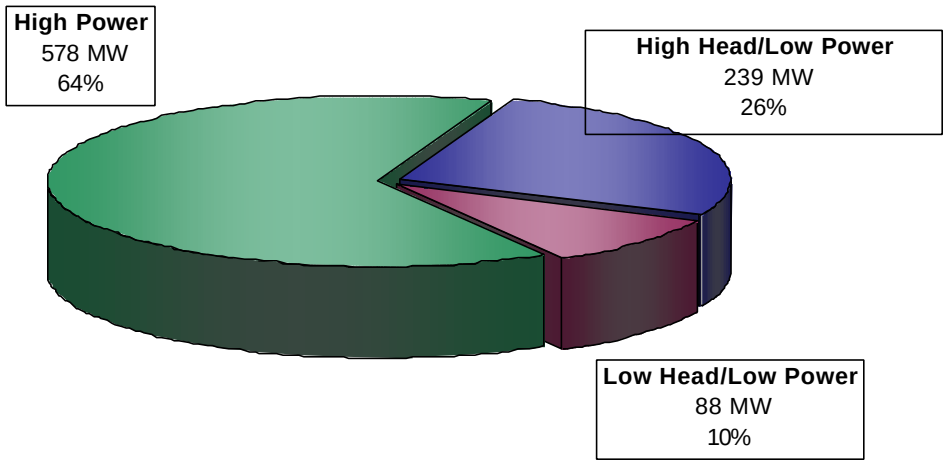


Figure B-143. Power class distribution of the available power potential (annual mean power) of water energy resources in New Hampshire.

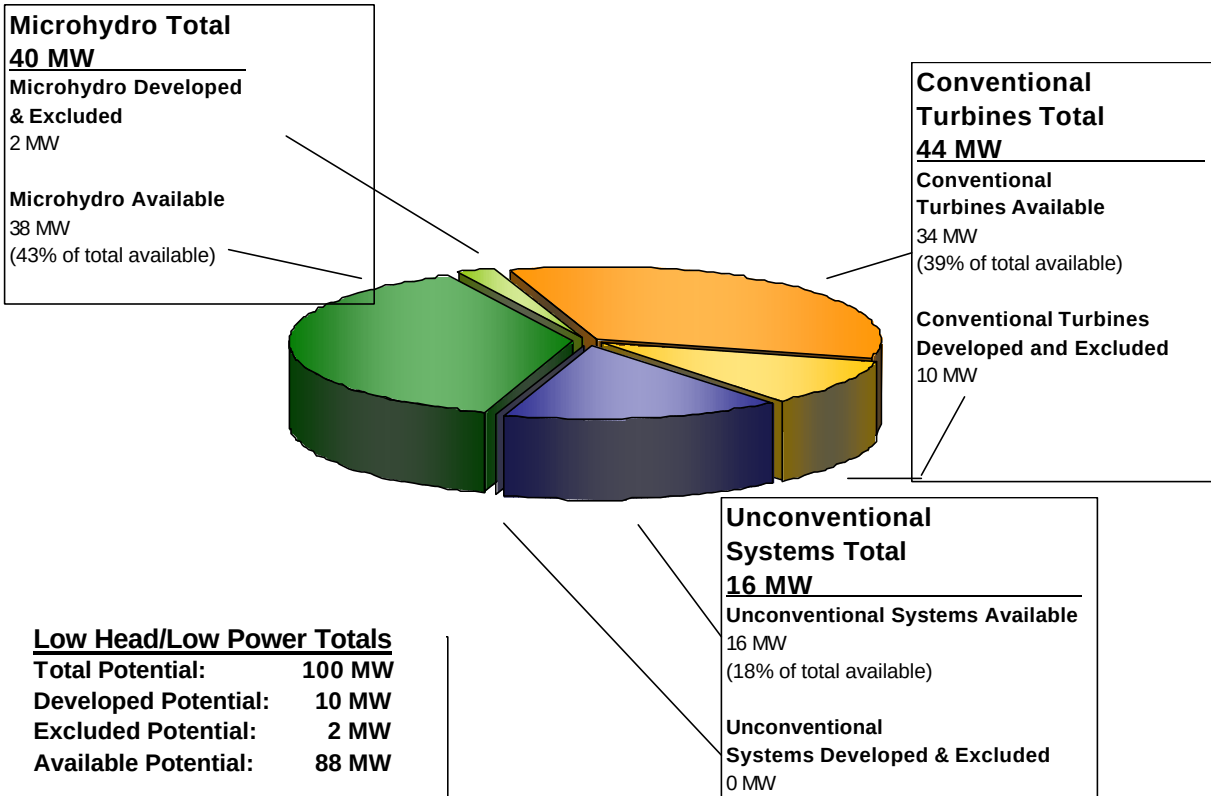


Figure B-144. Distribution of the low head/low power power potential (annual mean power) of water energy resources in New Hampshire among three low head/low power hydropower technology classes.

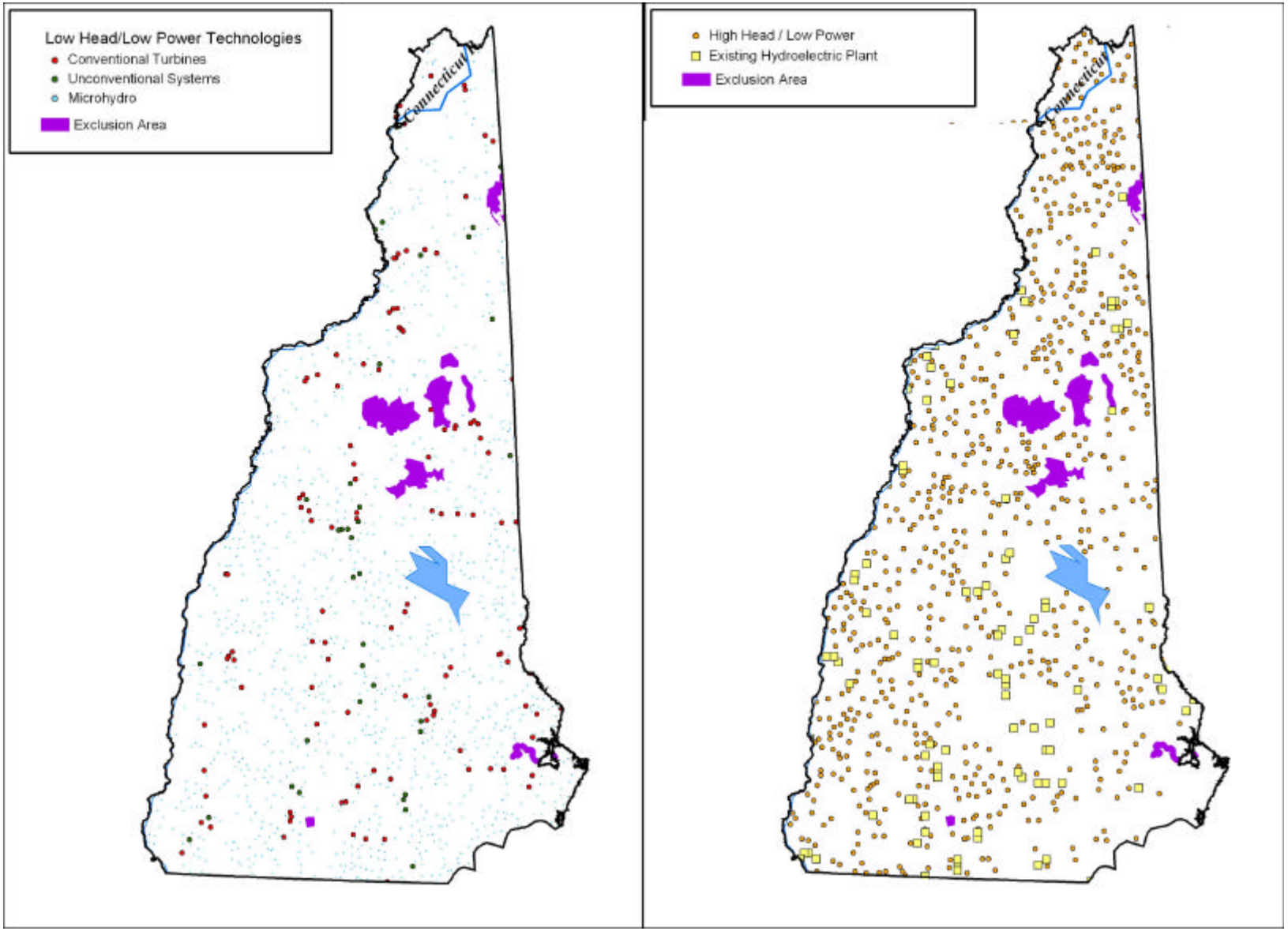


Figure B-145. Low head/low power and high head/low power water energy sites, and existing hydroelectric plants in New Hampshire.

B.30 New Jersey

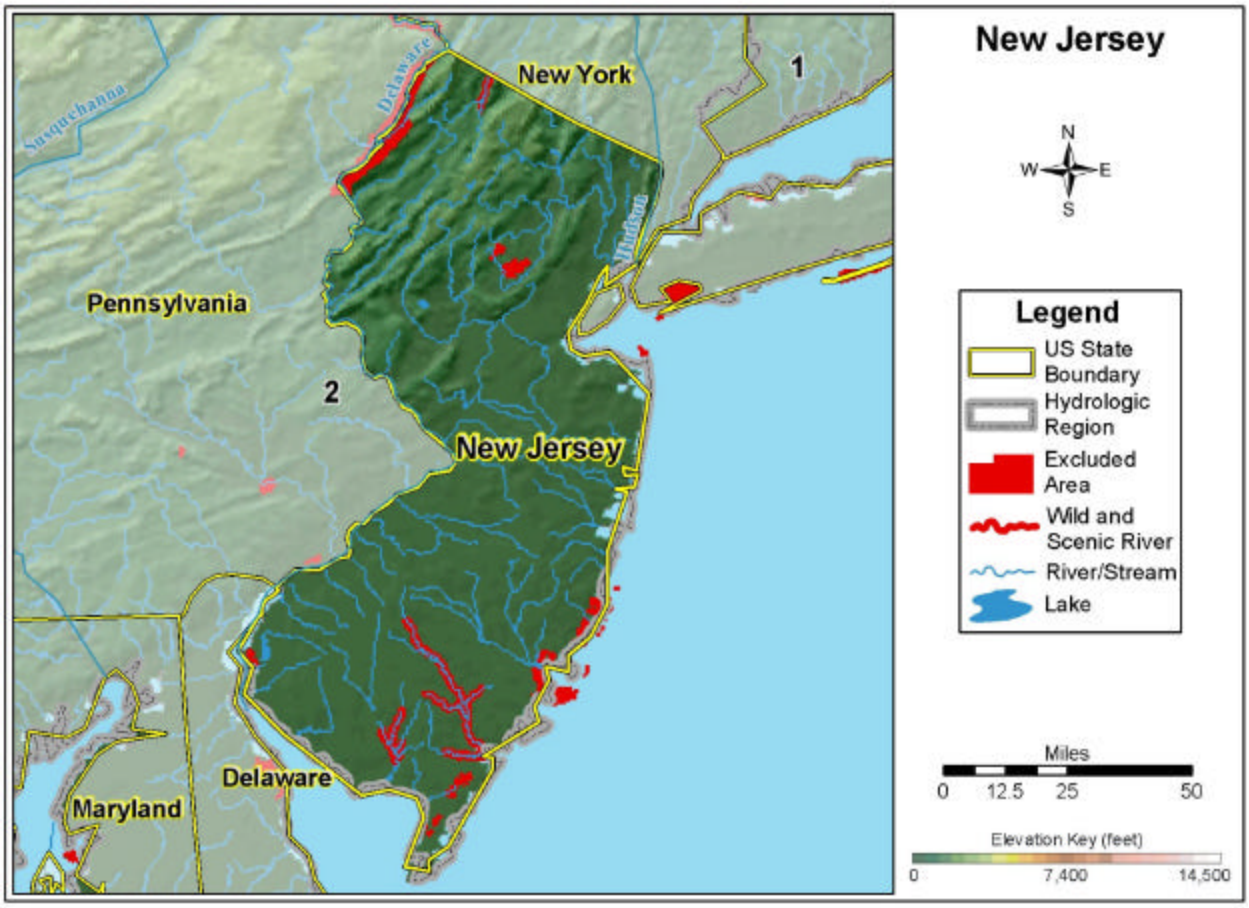


Figure B-146. New Jersey.

Table B-30. Summary of results of hydropower resource assessment of New Jersey.

Annual Mean Power (MW)	Total	Developed	Excluded	Available[a]
TOTAL POWER	**300**	**6**	**38**	**256**
TOTAL HIGH POWER	**203**	**5**	**30**	**168**
High Head/High Power	**76**	**5**	**0**	**71**
Low Head/High Power	**127**	**0**	**30**	**97**
TOTAL LOW POWER	**97**	**1**	**8**	**88**
High Head/Low Power	**42**	**0**	**5**	**37**
Low Head/Low Power	**55**	**1**	**3**	**51**
Conventional Turbine	21	1	1	19
Unconventional Systems	5	0	0	5
Microhydro	29	0	2	27

a. No feasibility or availability assessments have been performed. "Available" only indicates net potential after subtracting developed and excluded potentials from total potential.

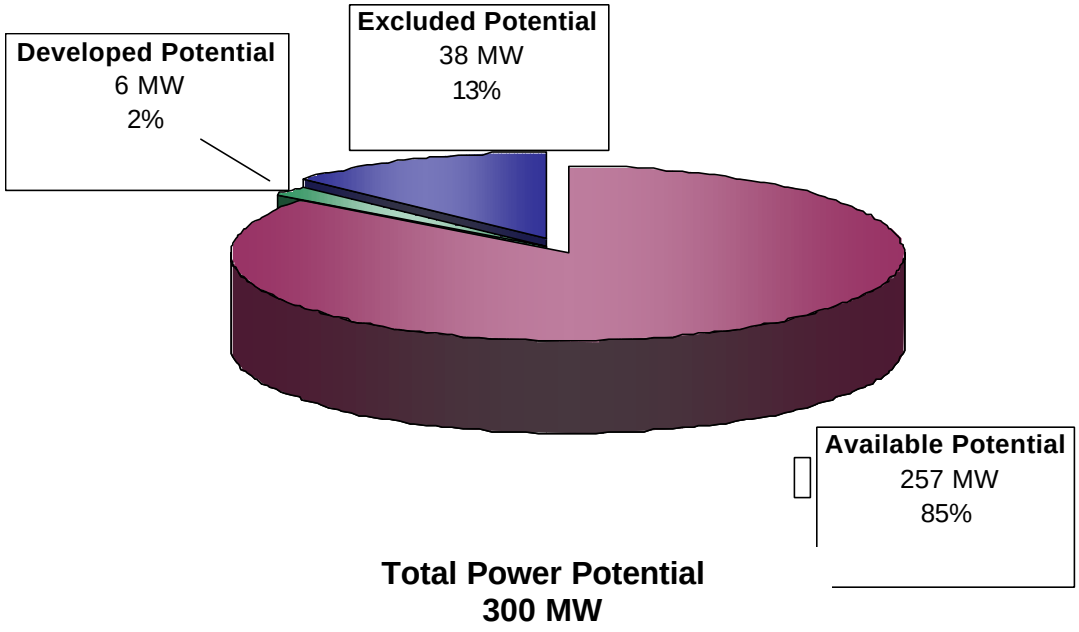


Figure B-147. Power category distribution of the total power potential (annual mean power) of water energy resources in New Jersey.

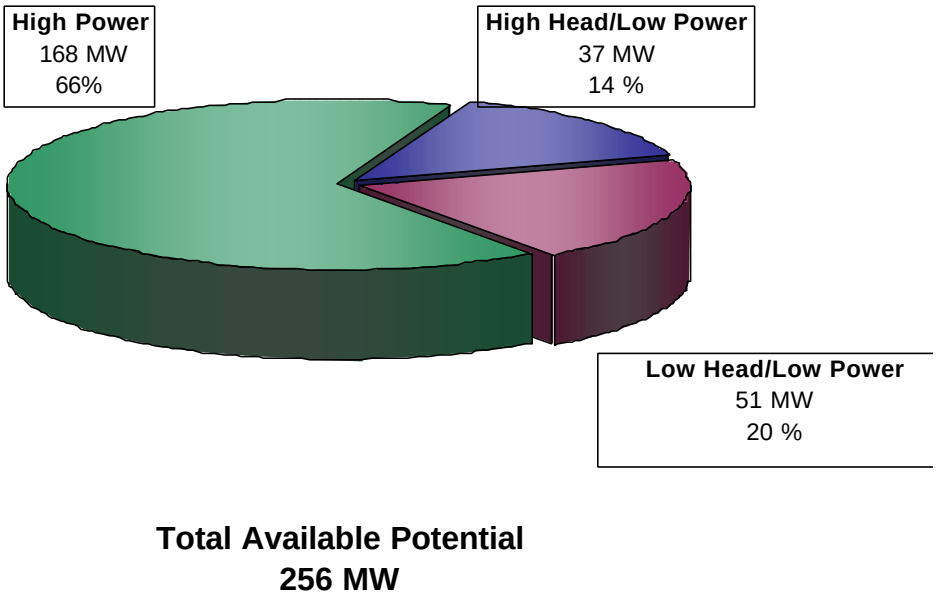


Figure B-148. Power class distribution of the available power potential (annual mean power) of water energy resources in New Jersey.

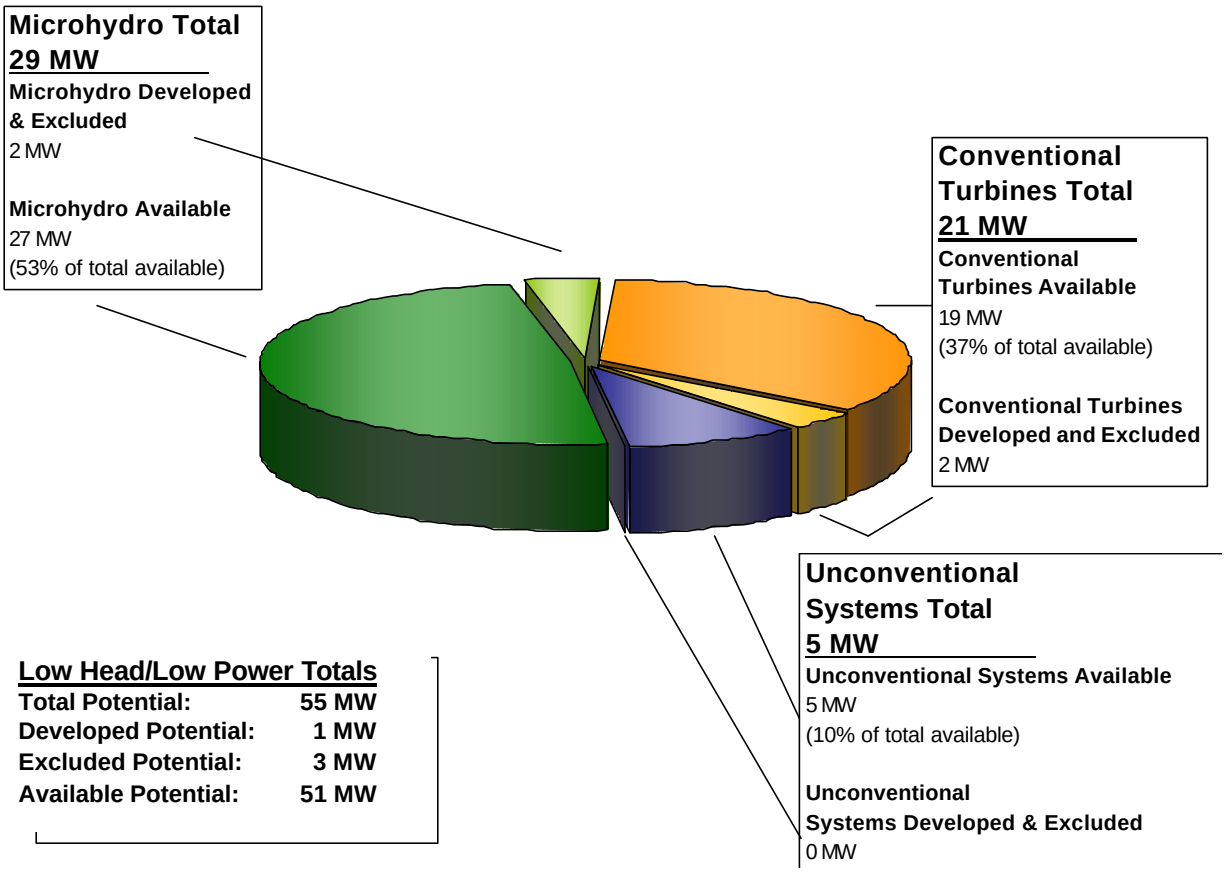


Figure B-149. Distribution of the low head/low power power potential (annual mean power) of water energy resources in New Jersey among three low head/low power hydropower technology classes.

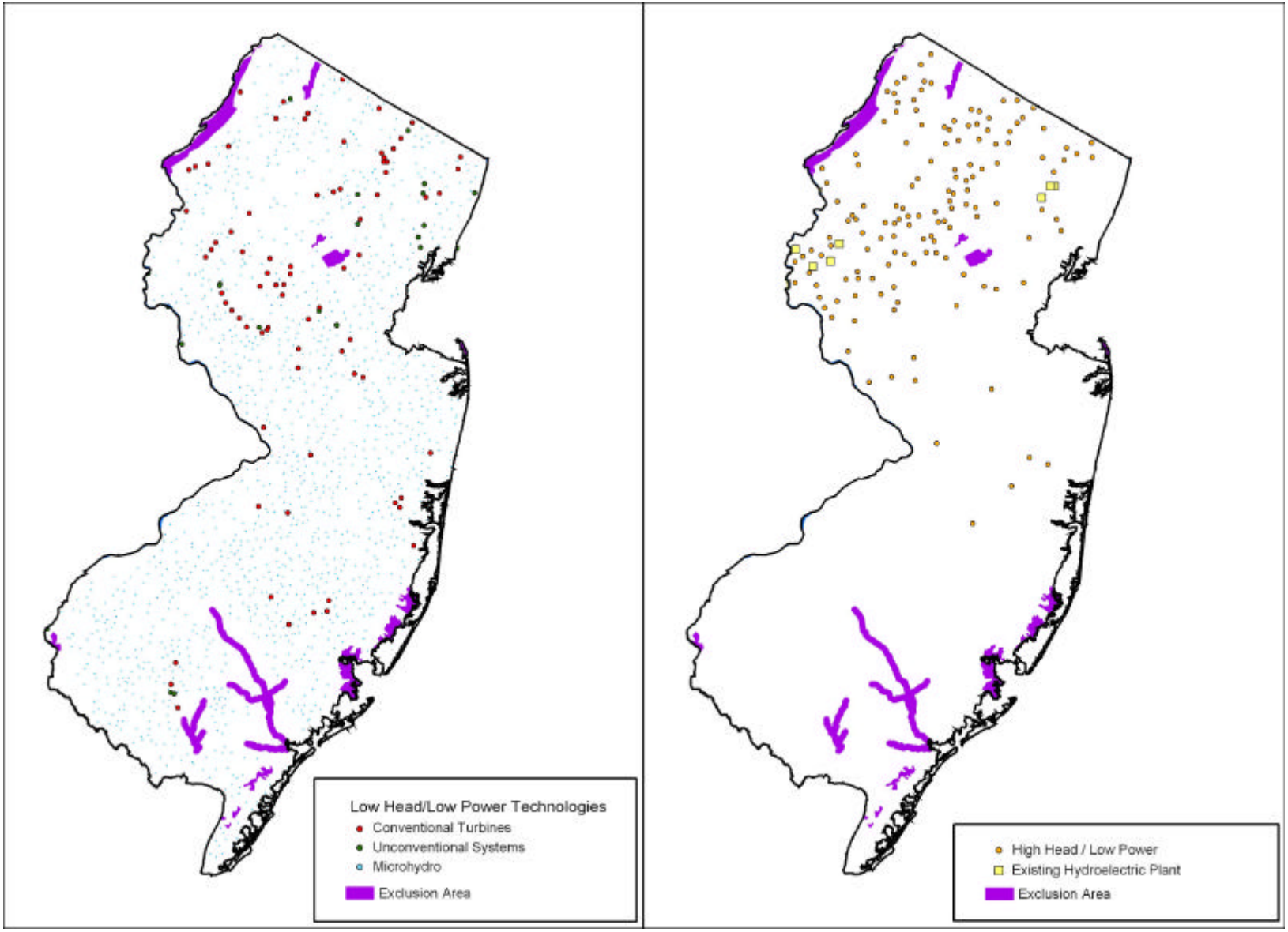


Figure B-150. Low head/low power and high head/low power water energy sites, and existing hydroelectric plants in New Jersey.

B.31 New Mexico

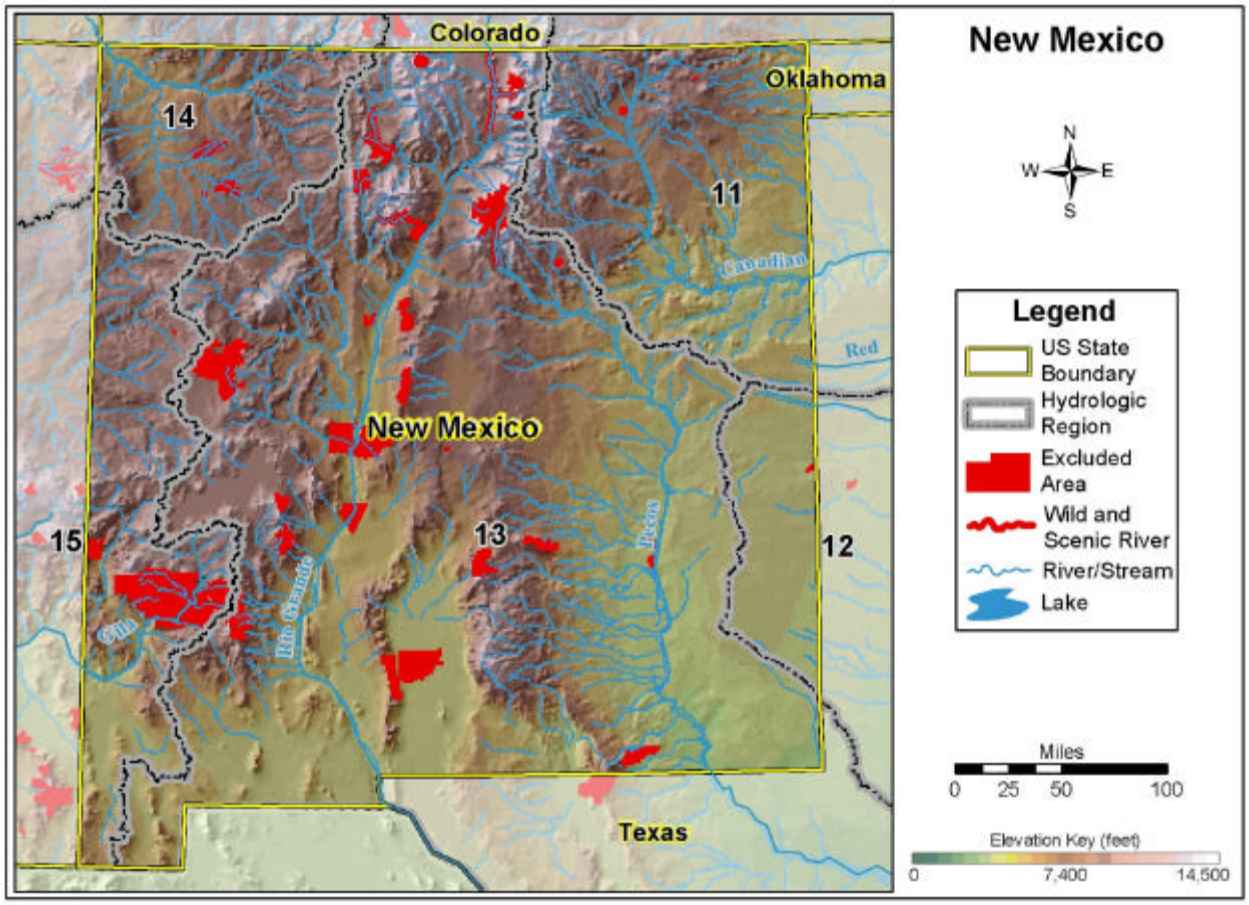


Figure B-151. New Mexico.

Table B-31. Summary of results of hydropower resource assessment of New Mexico.

Annual Mean Power (MW)	Total	Developed	Excluded	Available[a]
TOTAL POWER	**1,729**	**30**	**368**	**1,331**
TOTAL HIGH POWER	**595**	**30**	**182**	**383**
High Head/High Power	**488**	**30**	**177**	**281**
Low Head/High Power	**107**	**0**	**5**	**102**
TOTAL LOW POWER	**1,134**	**0**	**186**	**948**
High Head/Low Power	**630**	**0**	**140**	**490**
Low Head/Low Power	**504**	**0**	**46**	**458**
Conventional Turbine	124	0	14	110
Unconventional Systems	40	0	4	36
Microhydro	340	0	28	312

a. No feasibility or availability assessments have been performed. "Available" only indicates net potential after subtracting developed and excluded potentials from total potential.

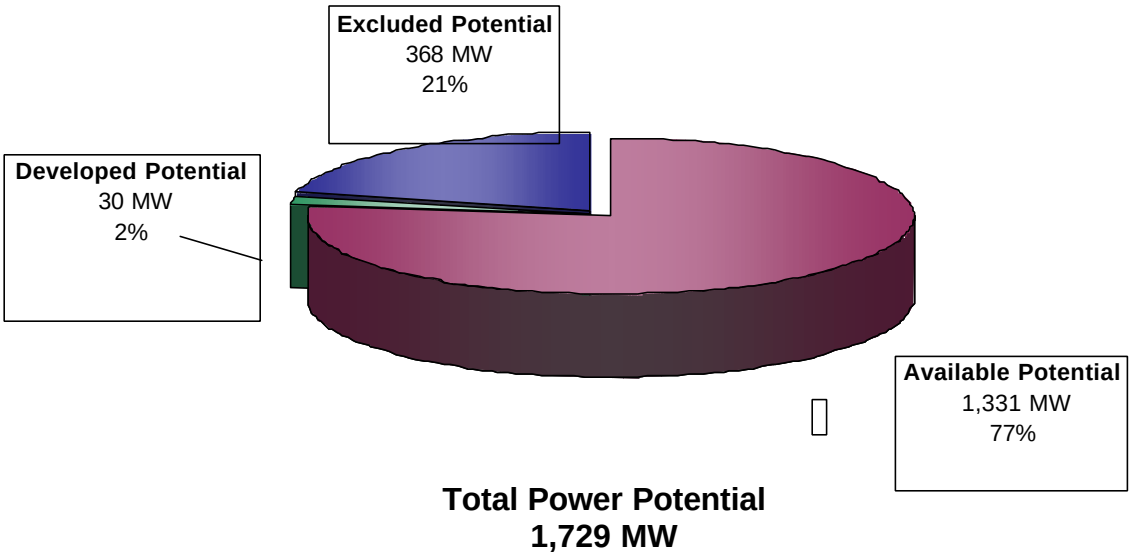


Figure B-152. Power category distribution of the total power potential (annual mean power) of water energy resources in New Mexico.

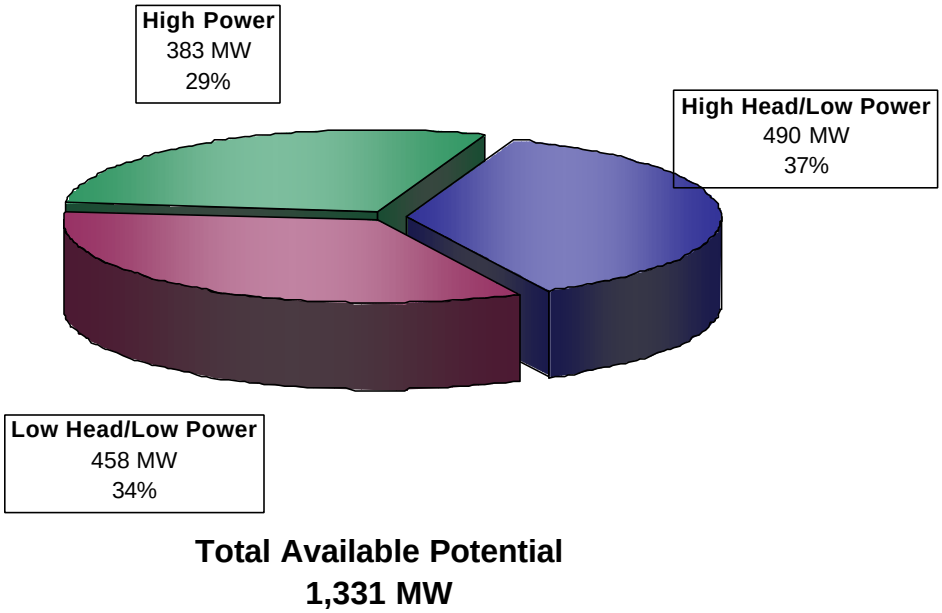


Figure B-153. Power class distribution of the available power potential (annual mean power) of water energy resources in New Mexico.

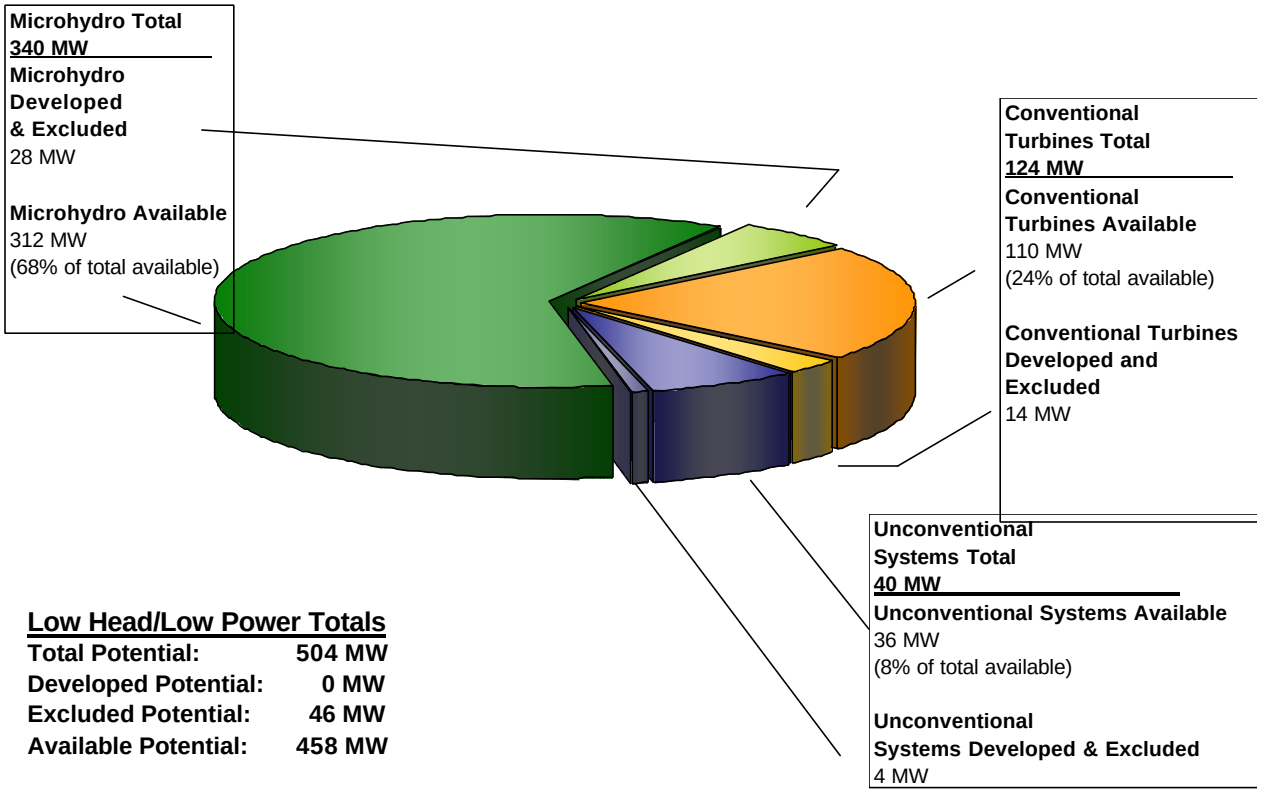


Figure B-154. Distribution of the low head/low power power potential (annual mean power) of water energy resources in New Mexico among three low head/low power hydropower technology classes.

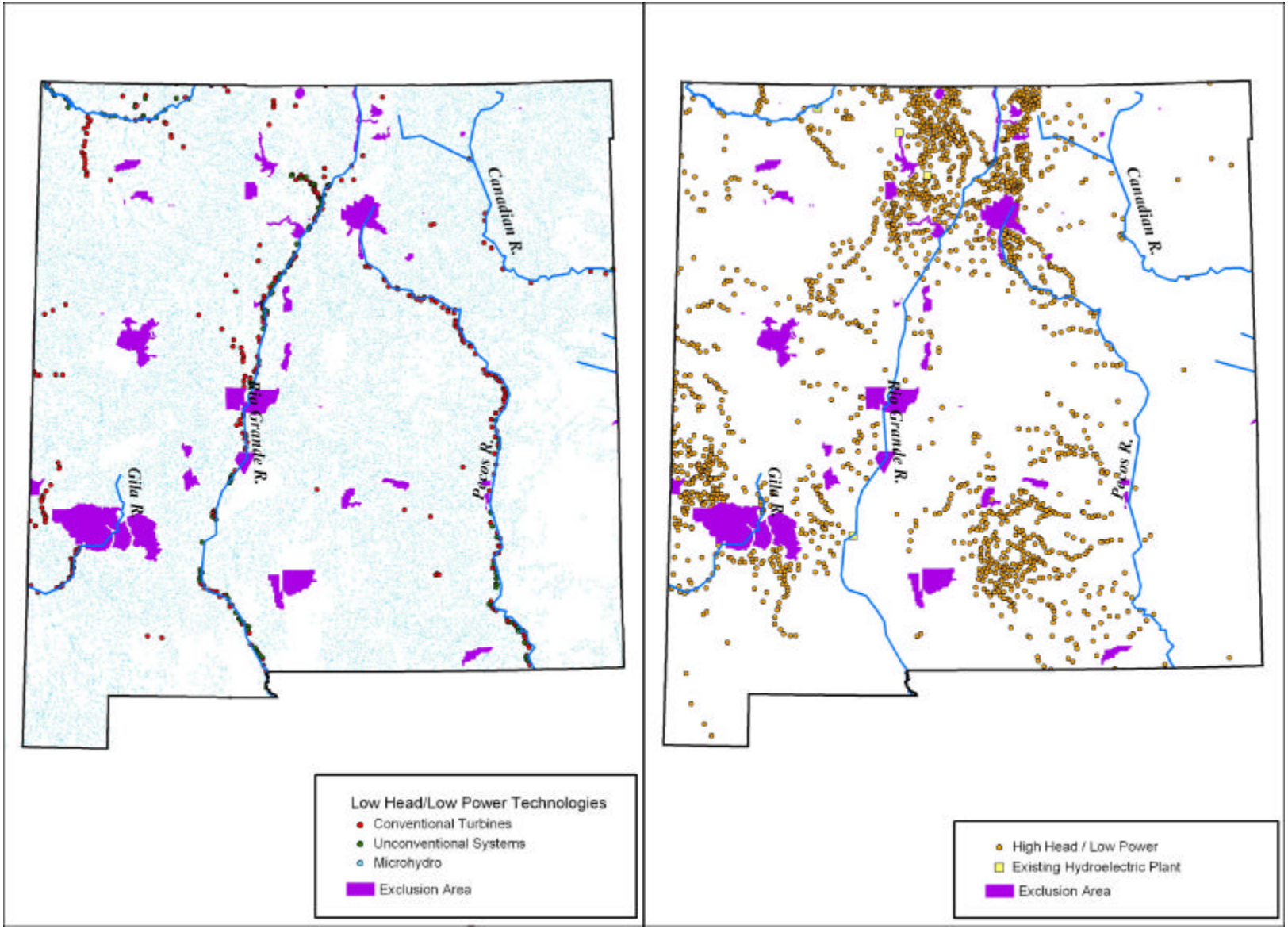


Figure B-155. Low head/low power and high head/low power water energy sites, and existing hydroelectric plants in New Mexico.

B.32 New York

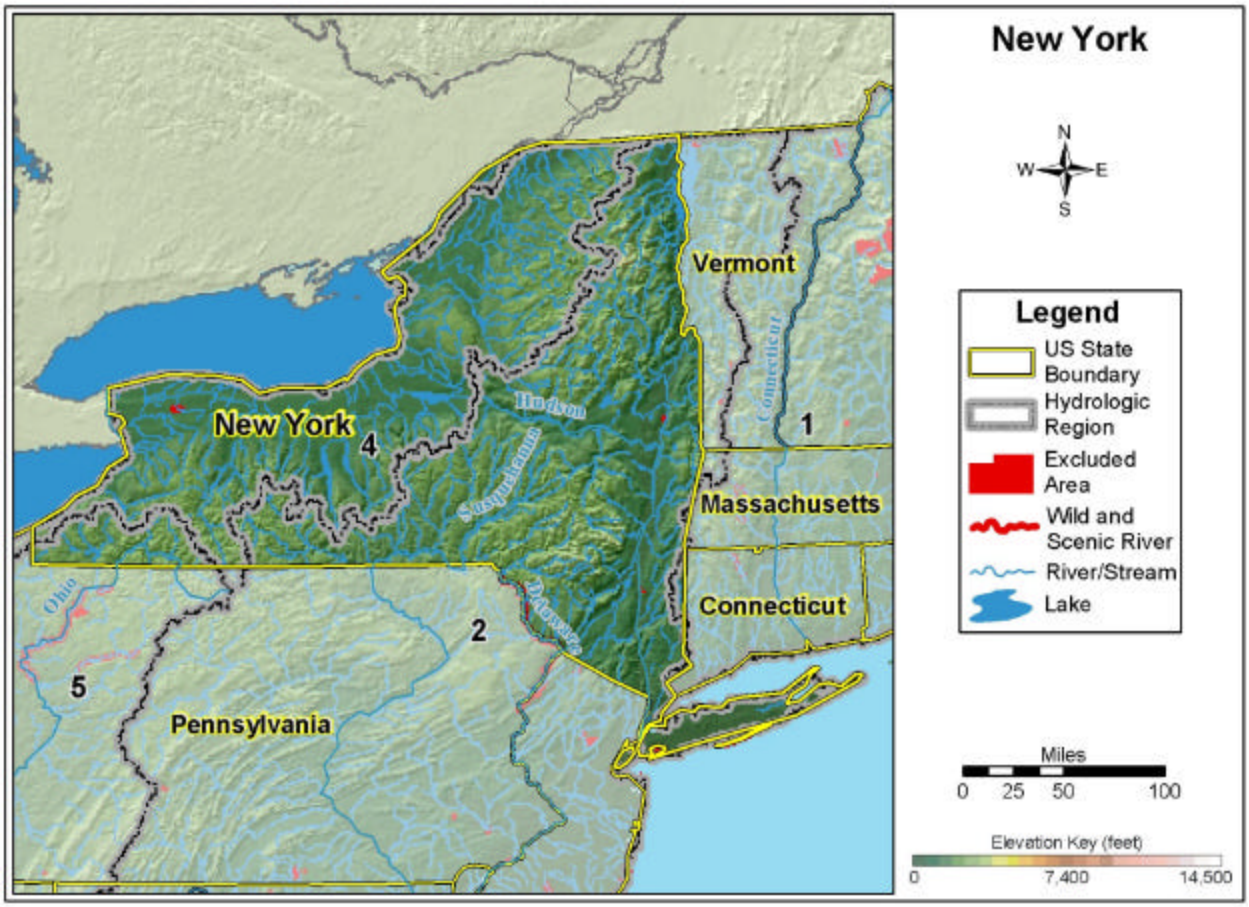
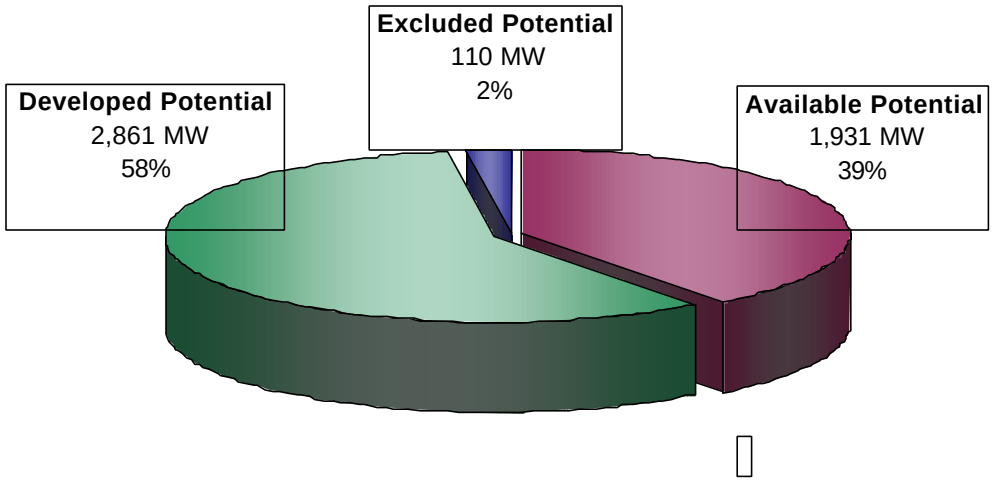


Figure B-156. New York.

Table B-32. Summary of results of hydropower resource assessment of New York.

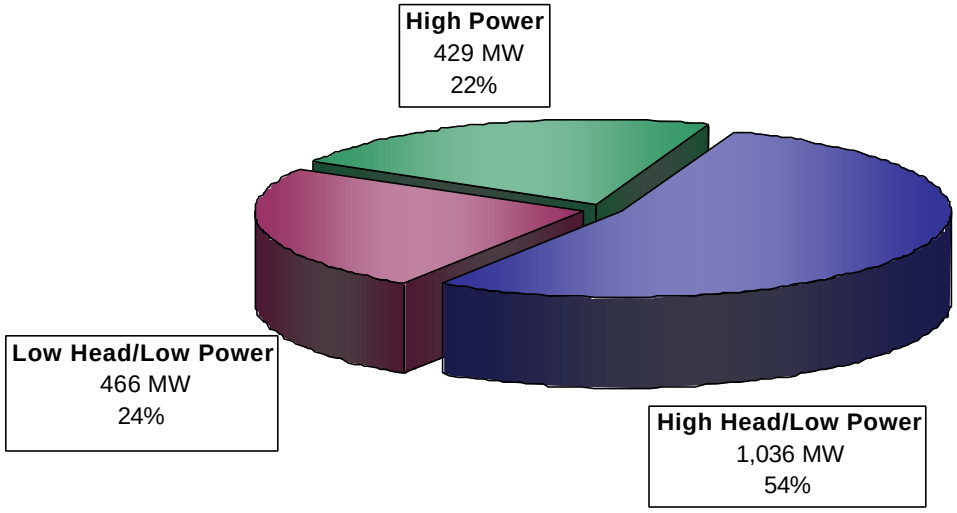
Annual Mean Power (MW)	Total	Developed	Excluded	Available[a]
TOTAL POWER	**4,902**	**2,861**	**110**	**1,931**
TOTAL HIGH POWER	**3,345**	**2,817**	**99**	**429**
High Head/High Power	**2,790**	**2,711**	**35**	**44**
Low Head/High Power	**555**	**106**	**64**	**385**
TOTAL LOW POWER	**1,557**	**44**	**11**	**1,502**
High Head/Low Power	**1,063**	**20**	**7**	**1,036**
Low Head/Low Power	**494**	**24**	**4**	**466**
Conventional Turbine	194	24	0	170
Unconventional Systems	72	0	3	69
Microhydro	228	0	1	227

a. No feasibility or availability assessments have been performed. "Available" only indicates net potential after subtracting developed and excluded potentials from total potential.



Total Power Potential
4,902 MW

Figure B-157. Power category distribution of the total power potential (annual mean power) of water energy resources in New York.



Total Available Potential
1,931 MW

Figure B-158. Power class distribution of the available power potential (annual mean power) of water energy resources in New York.

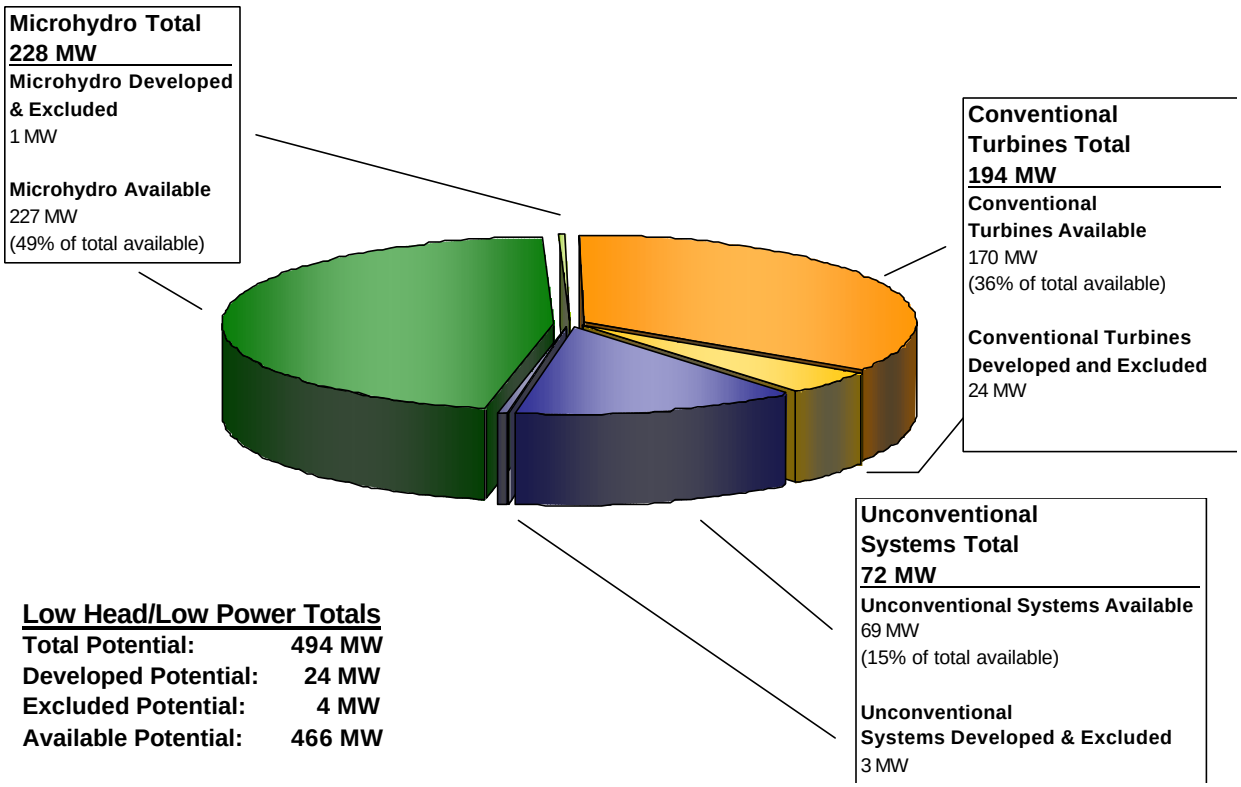


Figure B-159. Distribution of the low head/low power power potential (annual mean power) of water energy resources in New York among three low head/low power hydropower technology classes.

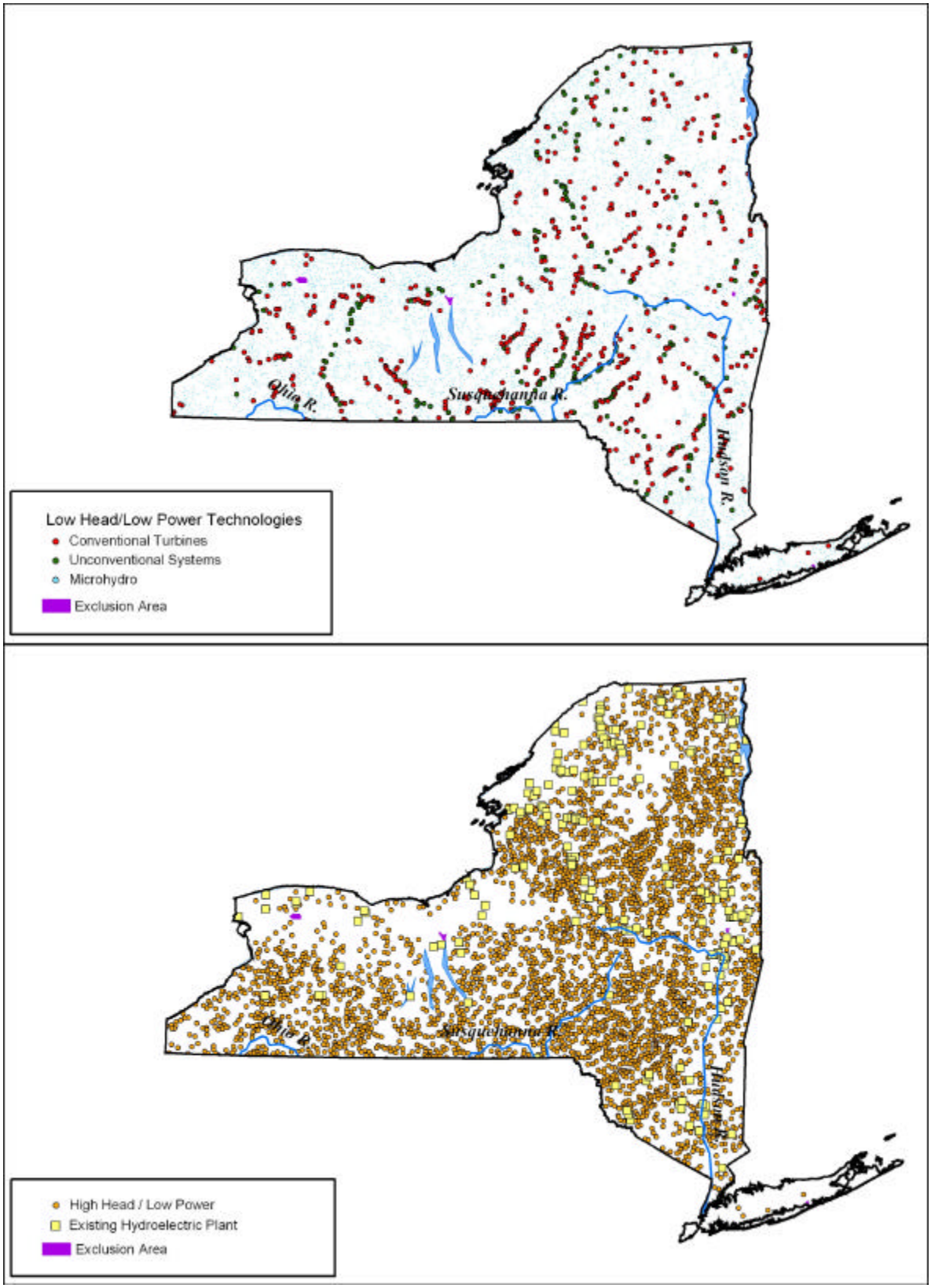


Figure B-160. Low head/low power and high head/low power water energy sites, and existing hydroelectric plants in New York.

B.33 North Carolina

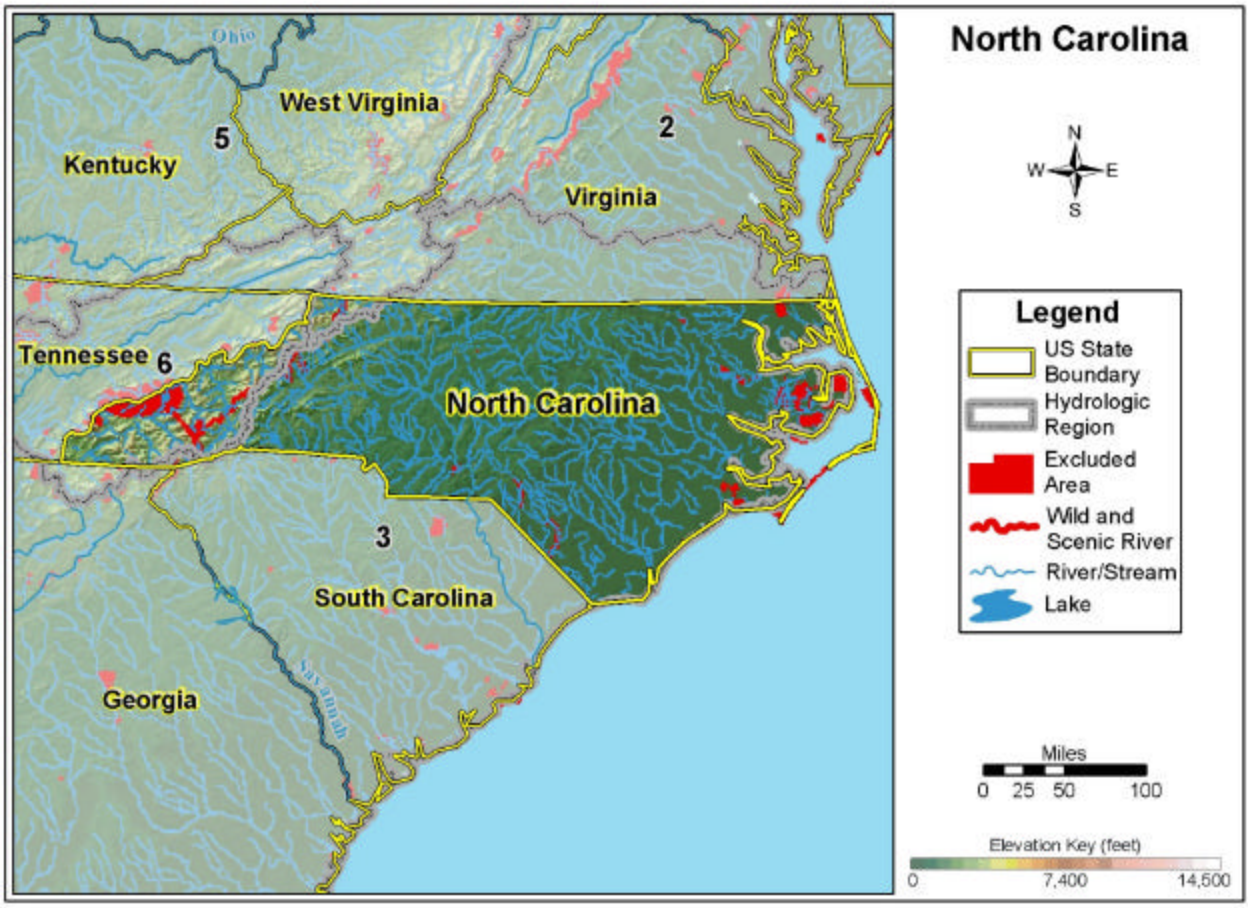
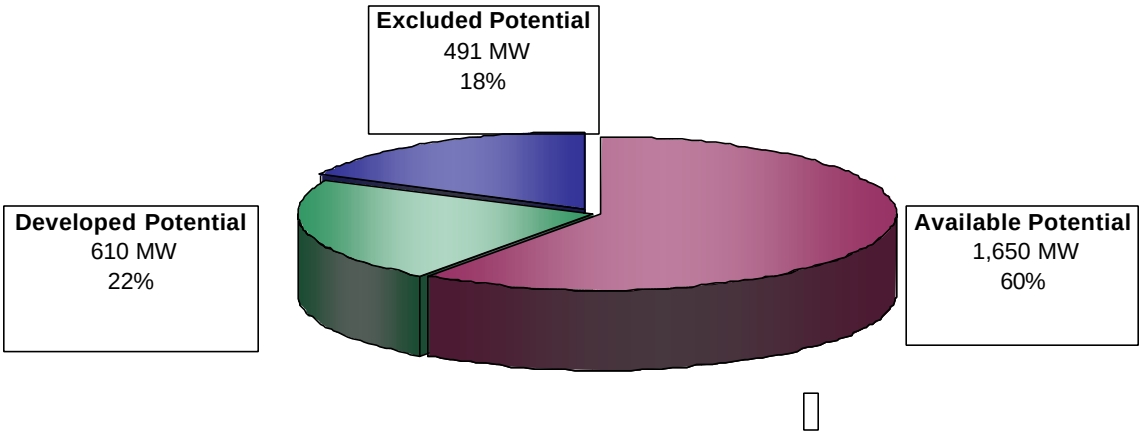


Figure B-161. North Carolina.

Table B-33. Summary of results of hydropower resource assessment of North Carolina.

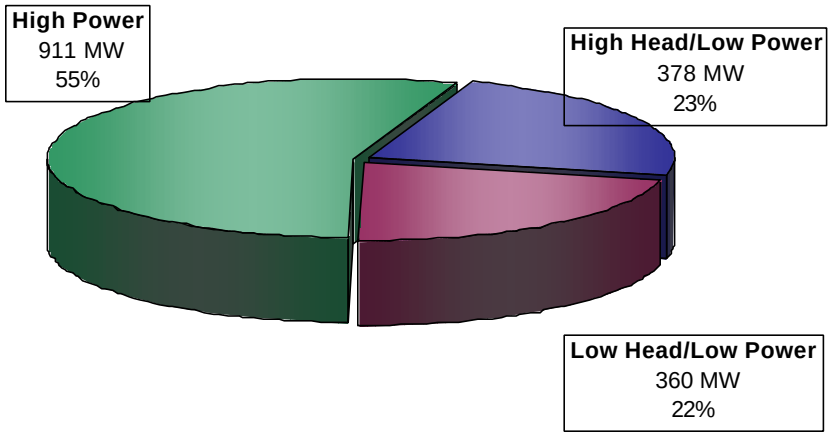
Annual Mean Power (MW)	Total	Developed	Excluded	Available[a]
TOTAL POWER	**2,750**	**610**	**491**	**1,649**
TOTAL HIGH POWER	**1,896**	**596**	**389**	**911**
High Head/High Power	**1,615**	**592**	**369**	**654**
Low Head/High Power	**281**	**4**	**20**	**257**
TOTAL LOW POWER	**854**	**14**	**102**	**738**
High Head/Low Power	**470**	**6**	**86**	**378**
Low Head/Low Power	**384**	**8**	**16**	**360**
Conventional Turbine	131	7	7	117
Unconventional Systems	74	0	3	71
Microhydro	179	1	6	172

a. No feasibility or availability assessments have been performed. "Available" only indicates net potential after subtracting developed and excluded potentials from total potential.



Total Power Potential
2,750 MW

Figure B-162. Power category distribution of the total power potential (annual mean power) of water energy resources in North Carolina.



Total Available Potential
1,649 MW

Figure B-163. Power class distribution of the available power potential (annual mean power) of water energy resources in North Carolina.

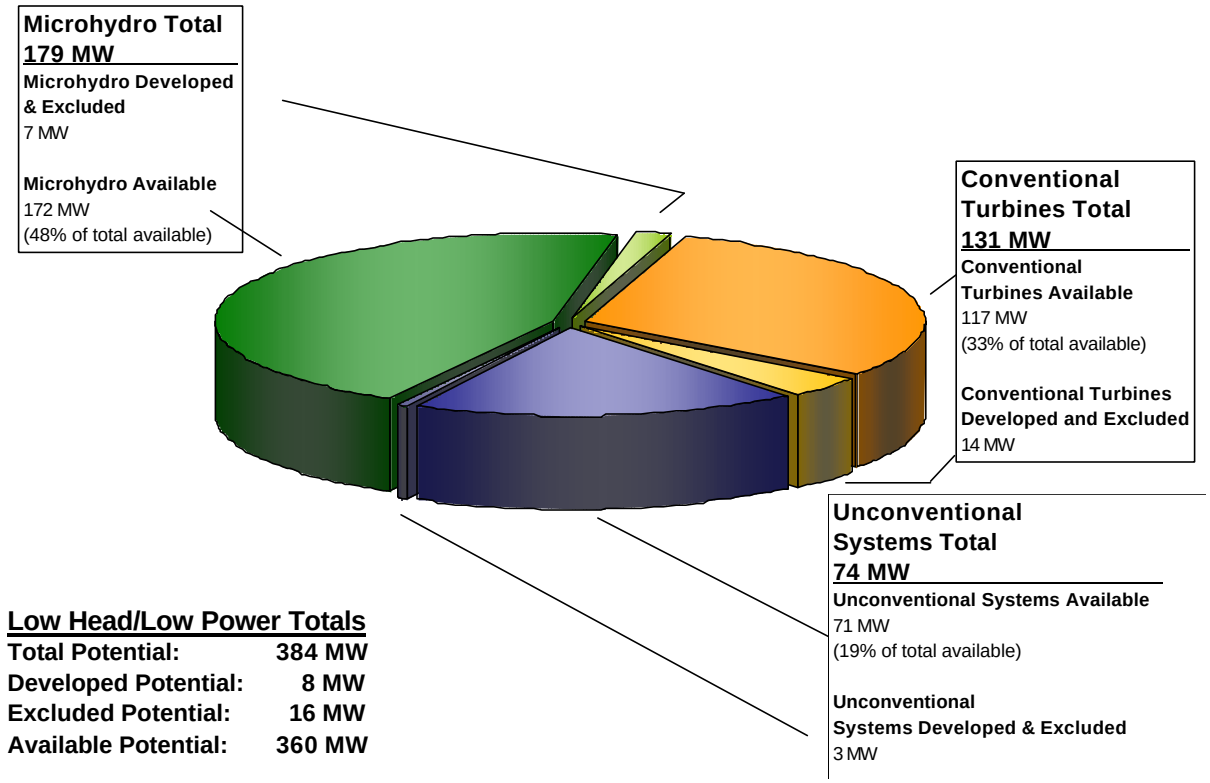


Figure B-164. Distribution of the low head/low power power potential (annual mean power) of water energy resources in North Carolina among three low head/low power hydropower technology classes.

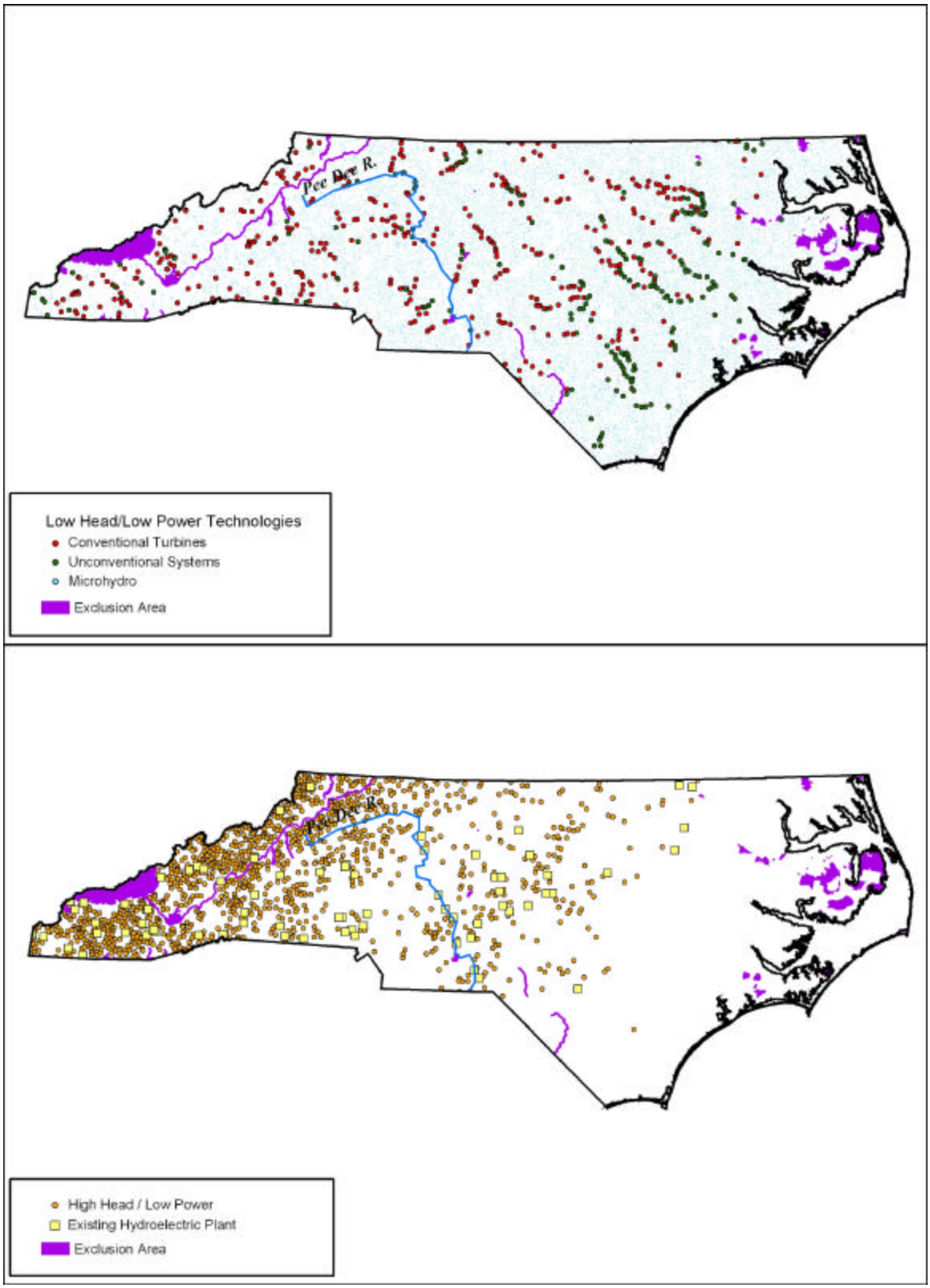


Figure B-165. Low head/low power and high head/low power water energy sites, and existing hydroelectric plants in North Carolina.

B.34 North Dakota

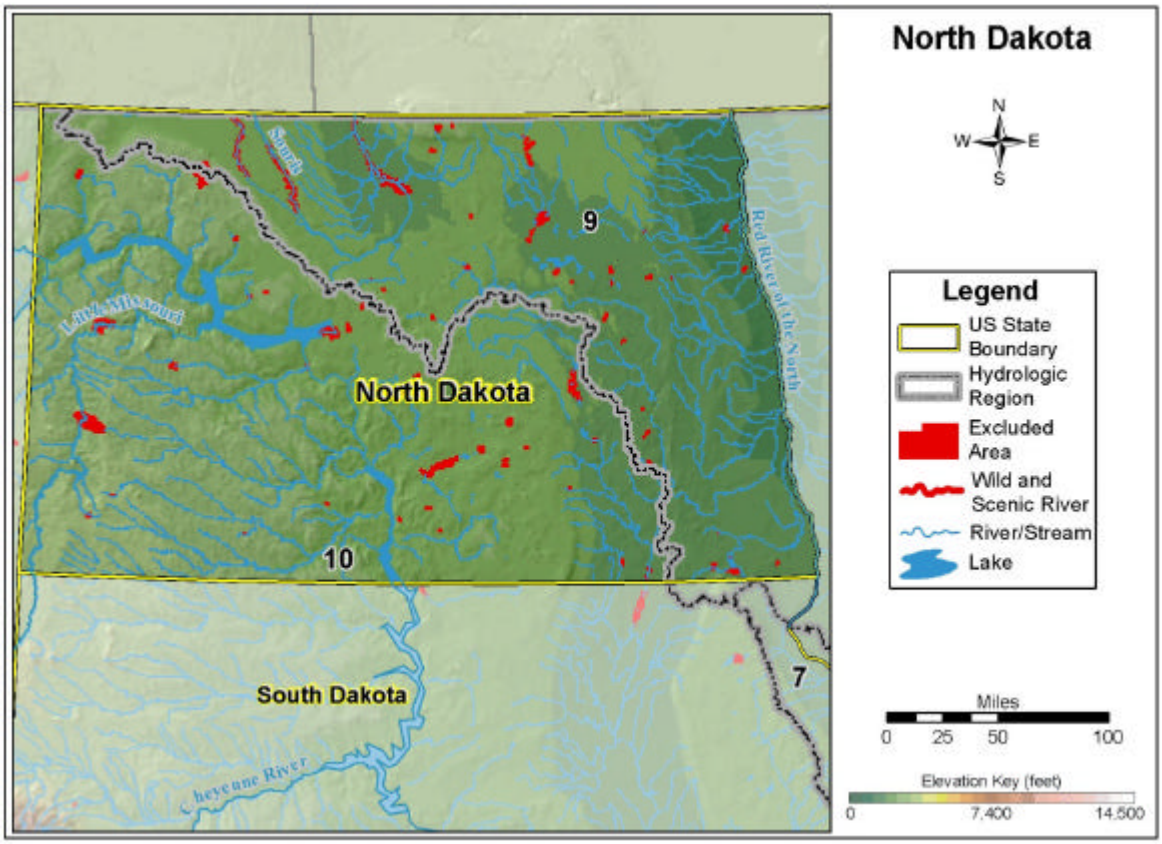


Figure B-166. North Dakota.

Table B-34. Summary of results of hydropower resource assessment of North Dakota.

Annual Mean Power (MW)	Total	Developed[a]	Excluded	Available[a,b]
TOTAL POWER	**289**	**270**	**8**	**11**
TOTAL HIGH POWER	**132**	**128**	**4**	**0**
High Head/High Power	**82**	**82**	**0**	**0**
Low Head/High Power	**50**	**46**	**4**	**0**
TOTAL LOW POWER	**157**	**142**	**4**	**11**
High Head/Low Power	**15**	**15**	**0**	**0**
Low Head/Low Power	**142**	**127**	**4**	**11**
Conventional Turbine	37	35	2	0
Unconventional Systems	10	10	0	0
Microhydro	95	82	2	11

a. Developed high head/high power potential exceeded total potential in this power class probably because the developed power is made up of resources in other power classes. This “excess” developed power in the high head/high power class (188 MW) was rolled downward into successively lower power classes in this table to the extent that each lower power class could accommodate additional developed power without creating a negative available potential.

b. No feasibility or availability assessments have been performed. “Available" only indicates net potential after subtracting developed and excluded potentials from total potential.

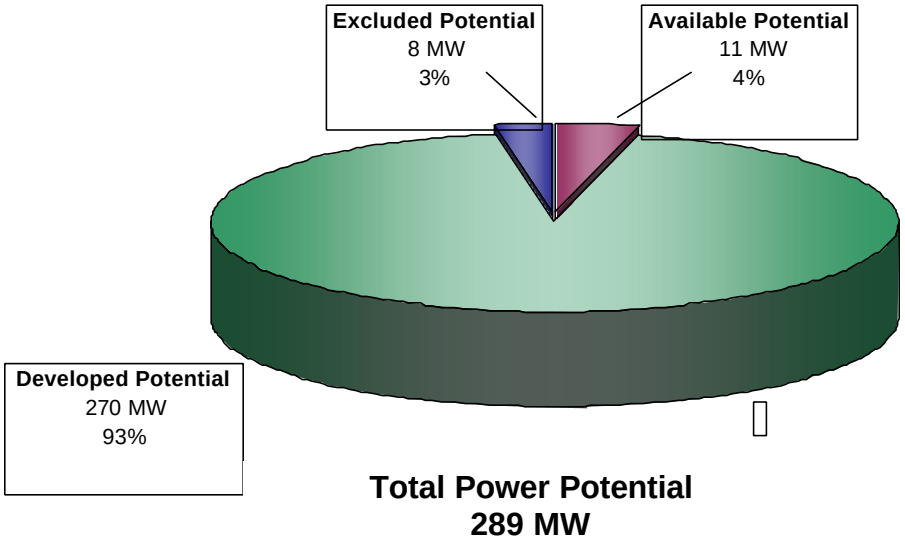


Figure B-167. Power category distribution of the total power potential (annual mean power) of water energy resources in North Dakota.

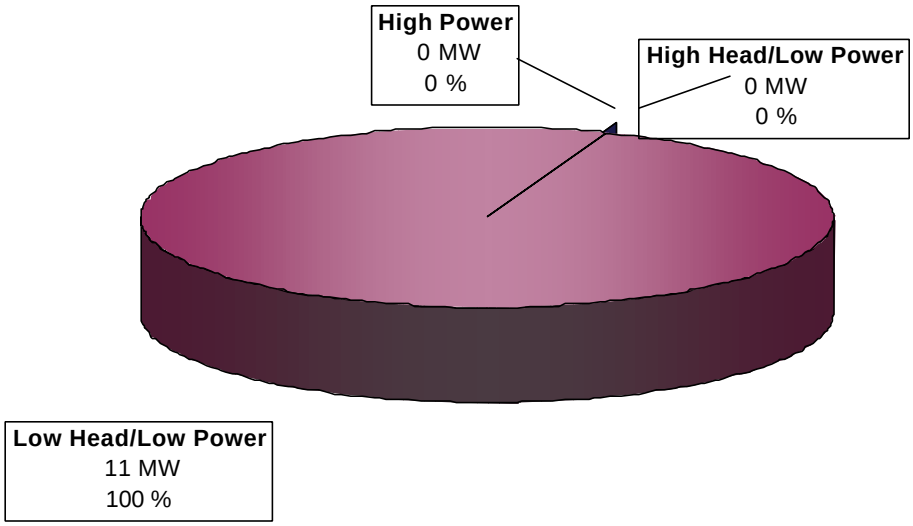


Figure B-168. Power class distribution of the available power potential (annual mean power) of water energy resources in North Dakota.

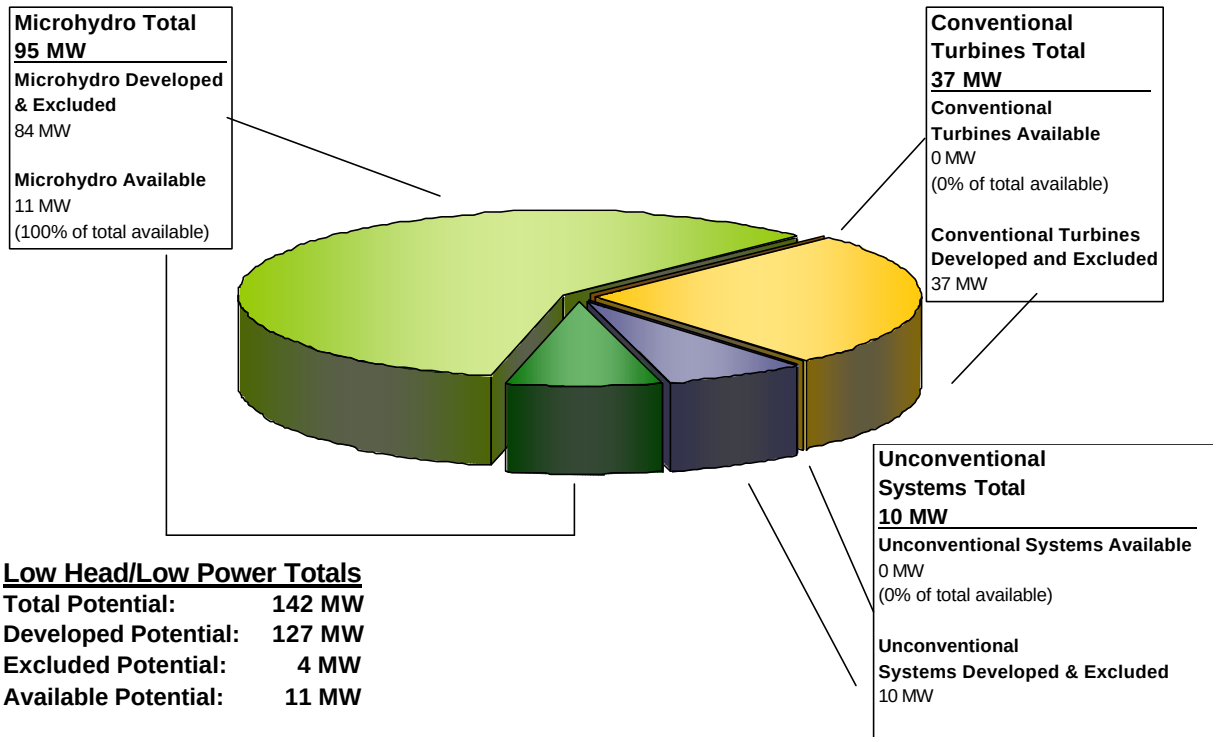


Figure B-169. Distribution of the low head/low power power potential (annual mean power) of water energy resources in North Dakota among three low head/low power hydropower technology classes.

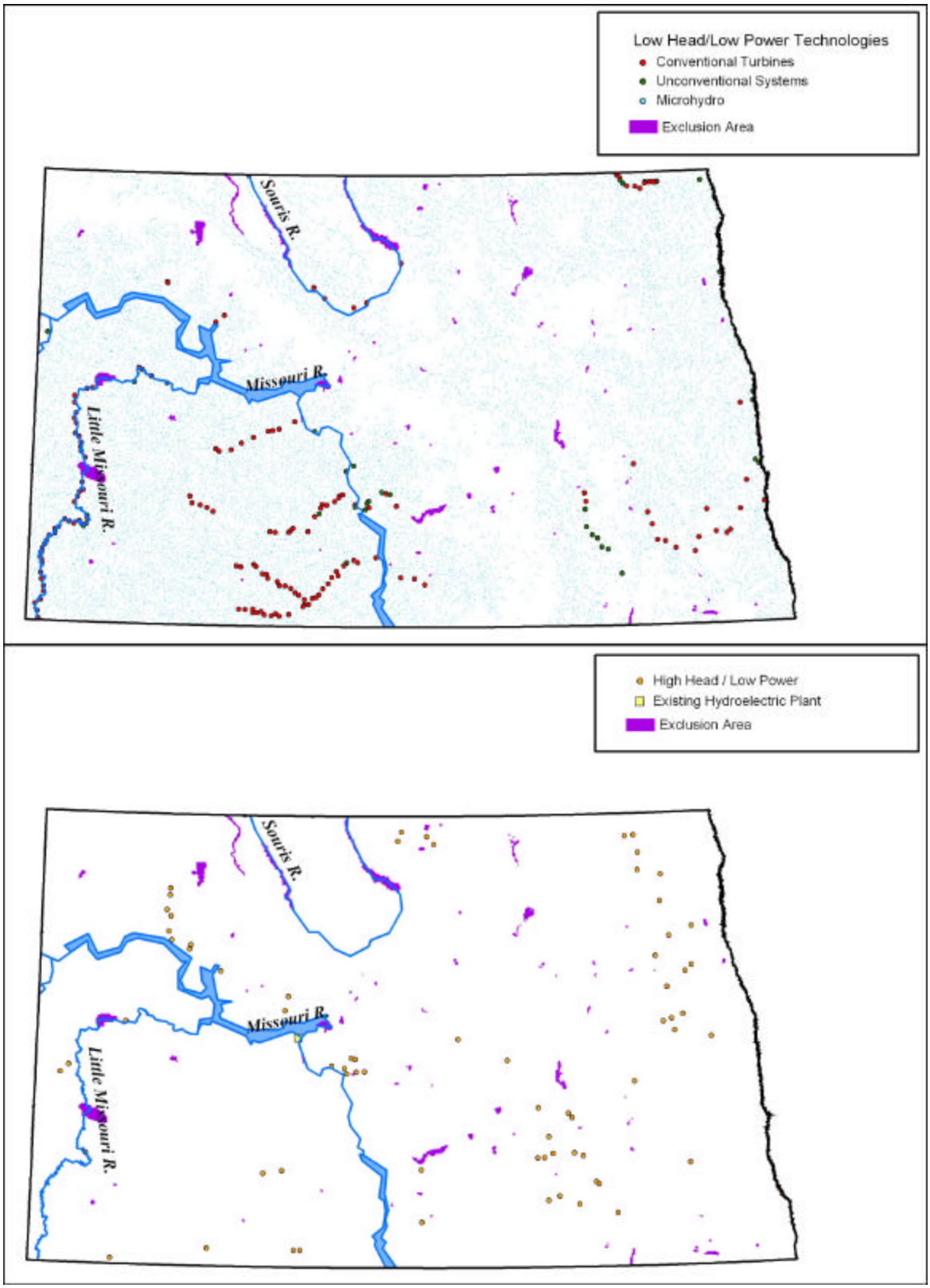


Figure B-170. Low head/low power and high head/low power water energy sites, and existing hydroelectric plants in North Dakota.

B.35 Ohio

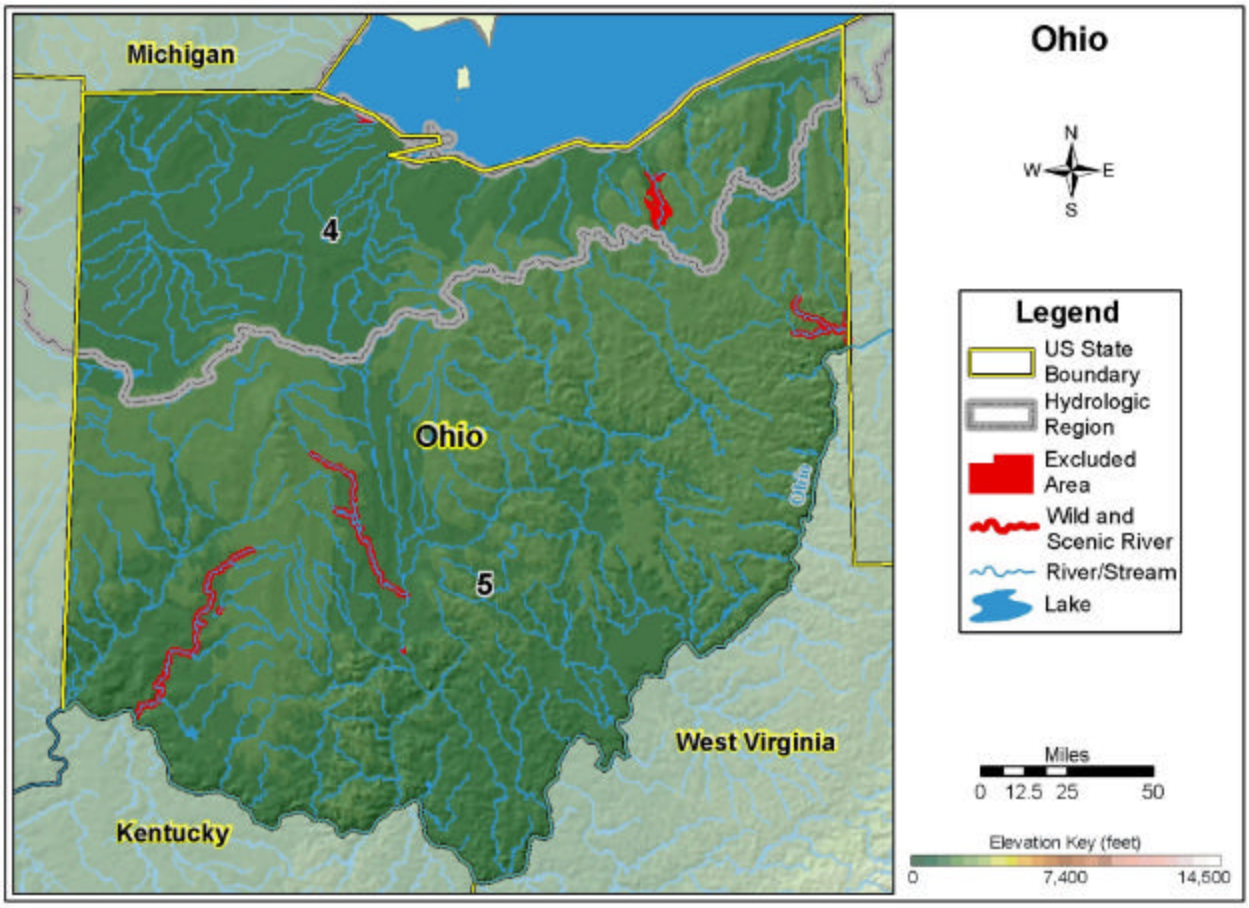


Figure B-171. Ohio.

Table B-35. Summary of results of hydropower resource assessment of Ohio.

Annual Mean Power (MW)	Total	Developed	Excluded	Available[a]
TOTAL POWER	**1,280**	**63**	**81**	**1,136**
TOTAL HIGH POWER	**718**	**63**	**51**	**604**
High Head/High Power	**151**	**36**	**18**	**97**
Low Head/High Power	**567**	**27**	**33**	**507**
TOTAL LOW POWER	**562**	**0**	**30**	**532**
High Head/Low Power	**150**	**0**	**6**	**144**
Low Head/Low Power	**412**	**0**	**24**	**388**
Conventional Turbine	167	0	15	152
Unconventional Systems	57	0	3	54
Microhydro	188	0	6	182

a. No feasibility or availability assessments have been performed. "Available" only indicates net potential after subtracting developed and excluded potentials from total potential.

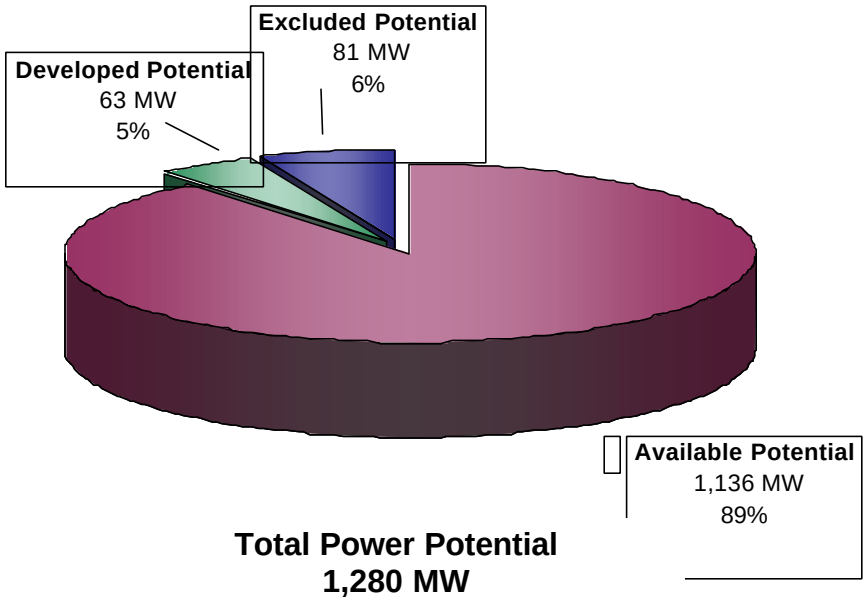


Figure B-172. Power category distribution of the total power potential (annual mean power) of water energy resources in Ohio.

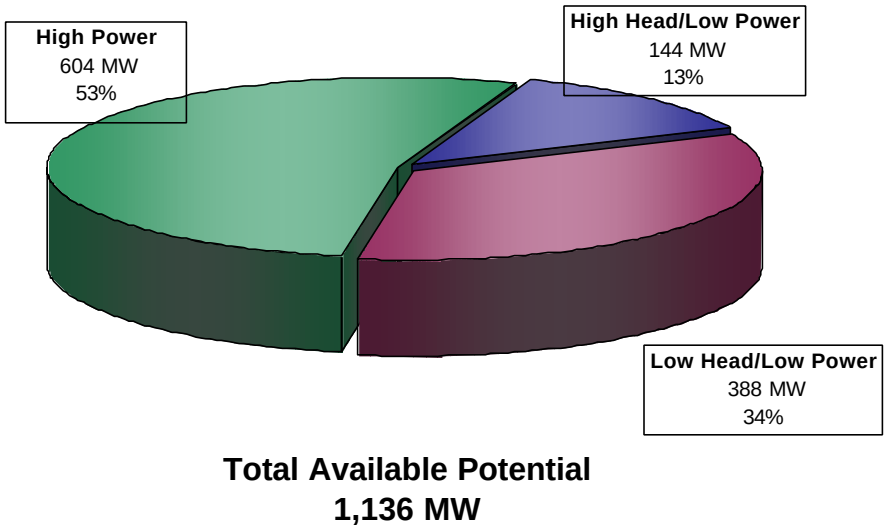


Figure B-173. Power class distribution of the available power potential (annual mean power) of water energy resources in Ohio.

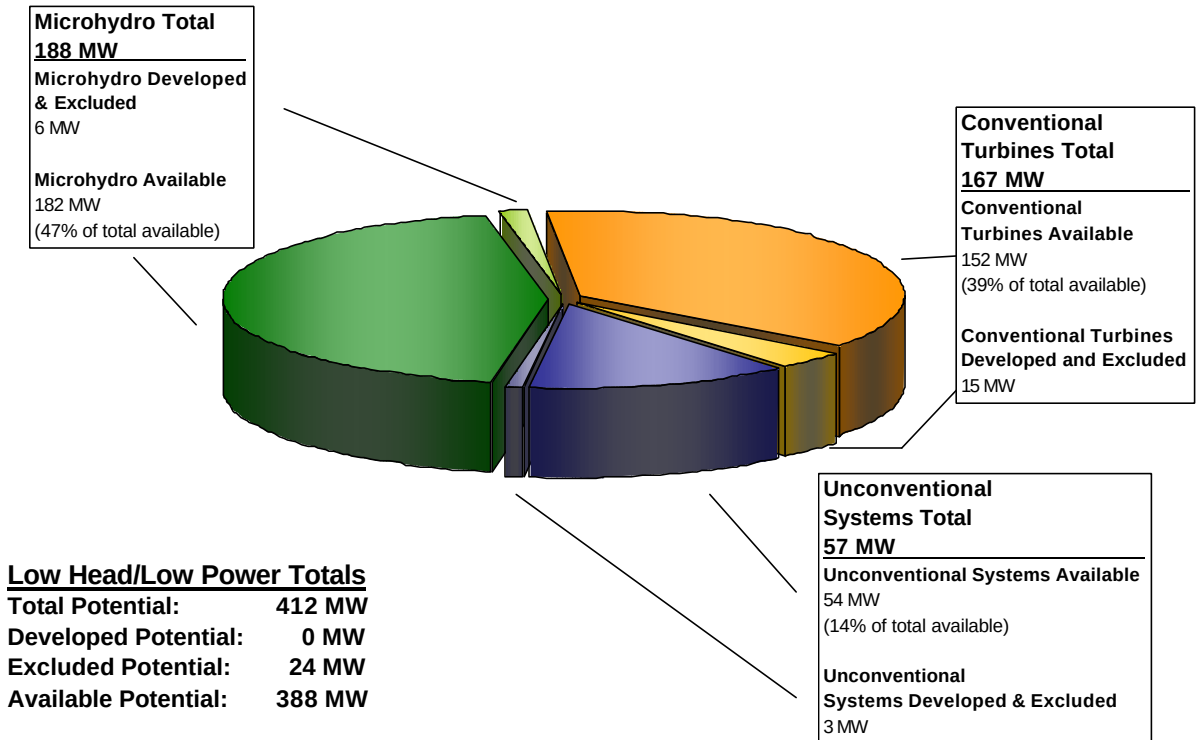


Figure B-174. Distribution of the low head/low power power potential (annual mean power) of water energy resources in Ohio among three low head/low power hydropower technology classes.

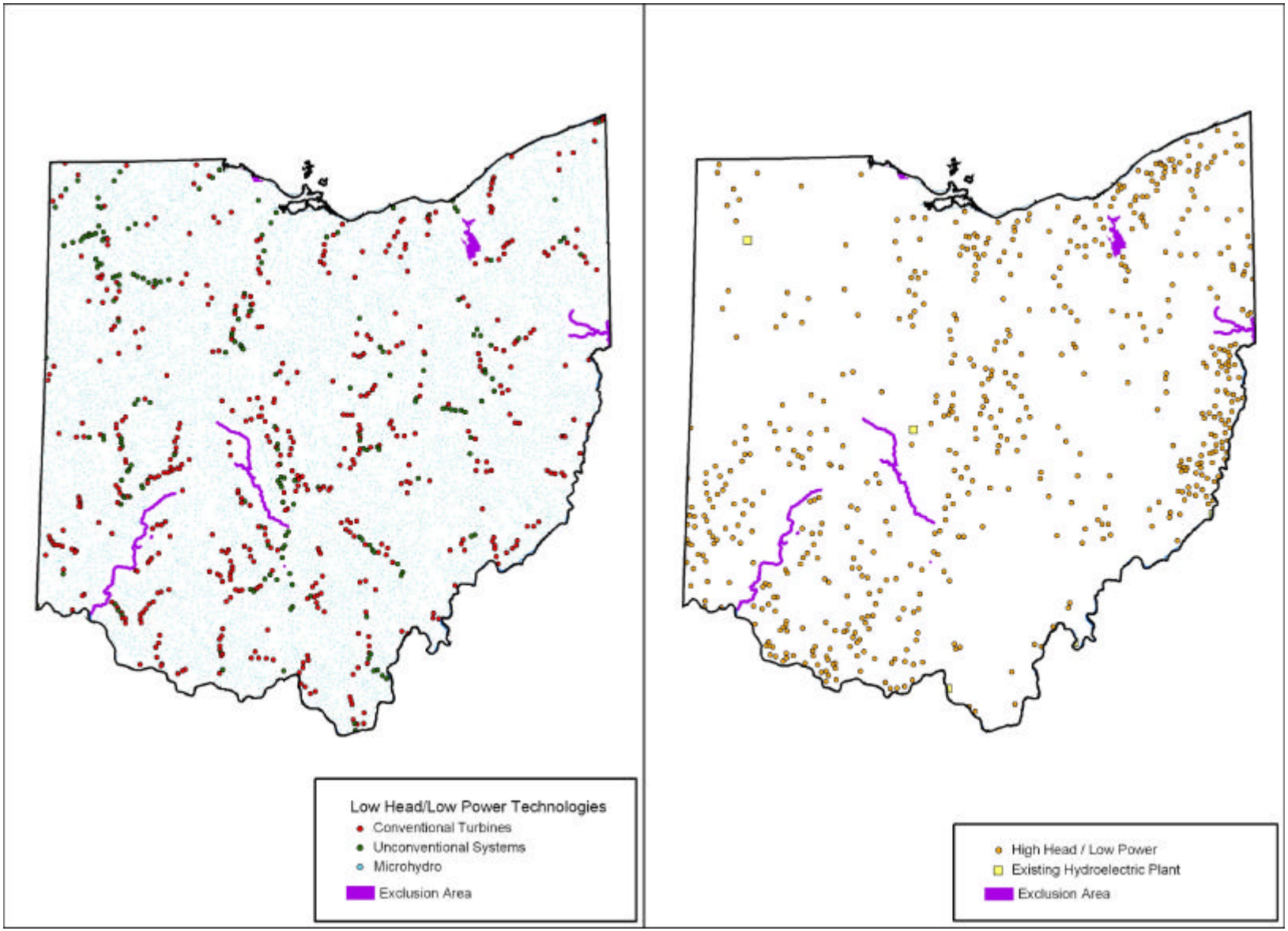


Figure B-175. Low head/low power and high head/low power water energy sites, and existing hydroelectric plants in Ohio.

B.36 Oklahoma

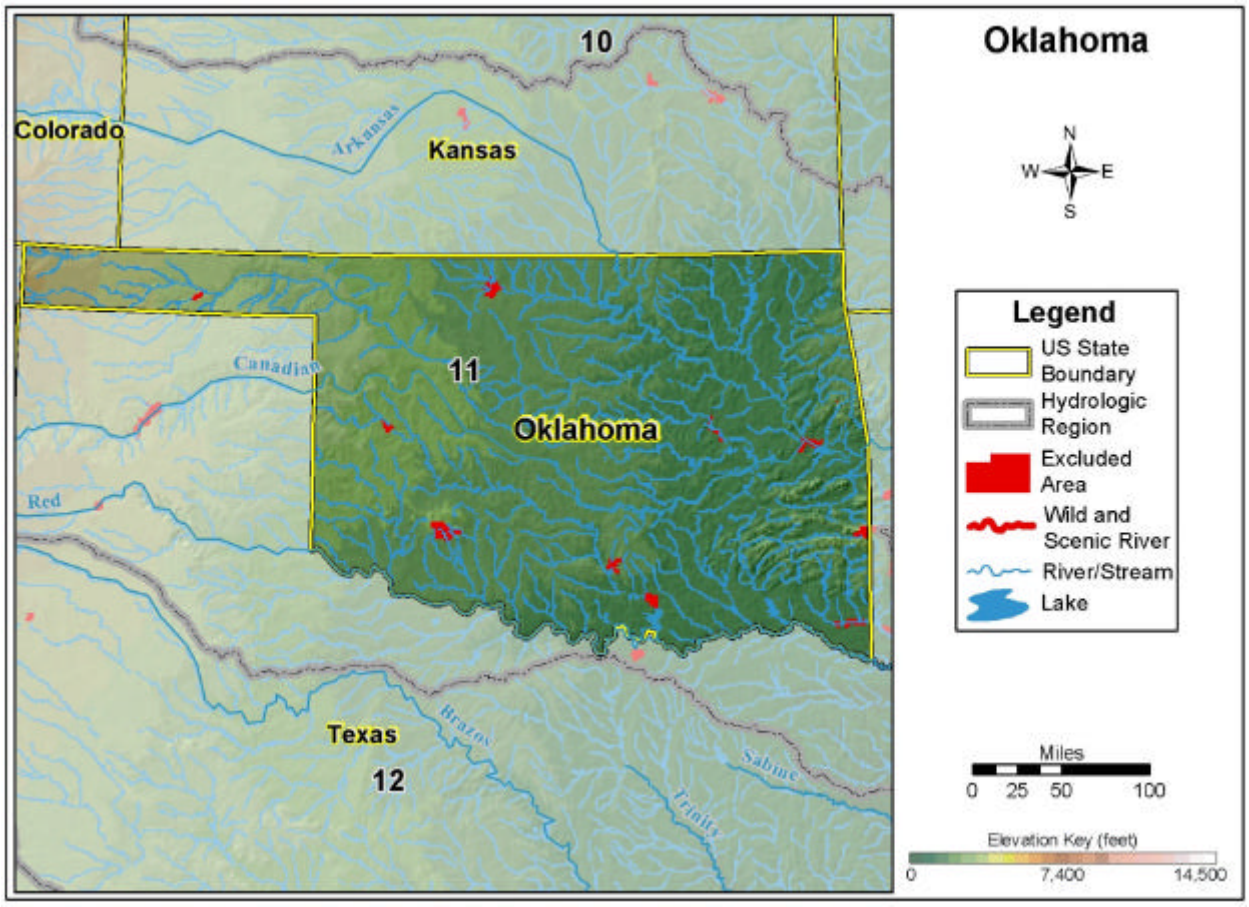


Figure B-176. Oklahoma.

Table B-36. Summary of results of hydropower resource assessment of Oklahoma.

Annual Mean Power (MW)	Total	Developed	Excluded	Available[a]
TOTAL POWER	**1,511**	**239**	**23**	**1,249**
TOTAL HIGH POWER	**725**	**239**	**5**	**481**
High Head/High Power	**323**	**239**	**1**	**83**
Low Head/High Power	**402**	**0**	**4**	**398**
TOTAL LOW POWER	**786**	**0**	**18**	**768**
High Head/Low Power	**120**	**0**	**6**	**114**
Low Head/Low Power	**666**	**0**	**12**	**654**
Conventional Turbine	286	0	4	282
Unconventional Systems	157	0	5	152
Microhydro	223	0	3	220

a. No feasibility or availability assessments have been performed. "Available" only indicates net potential after subtracting developed and excluded potentials from total potential.

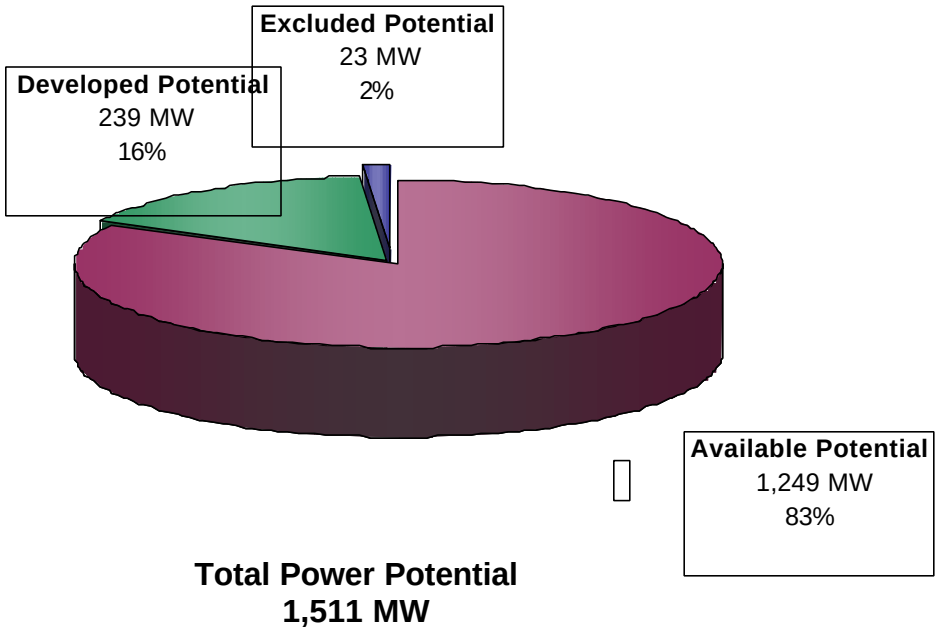


Figure B-177. Power category distribution of the total power potential (annual mean power) of water energy resources in Oklahoma.

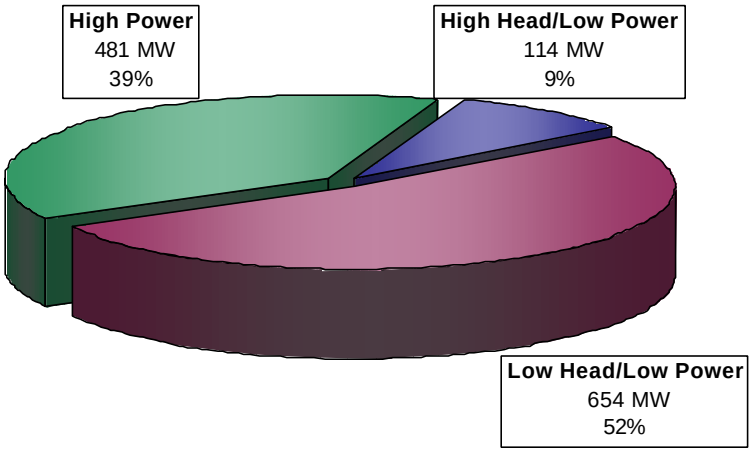


Figure B-178. Power class distribution of the available power potential (annual mean power) of water energy resources in Oklahoma.

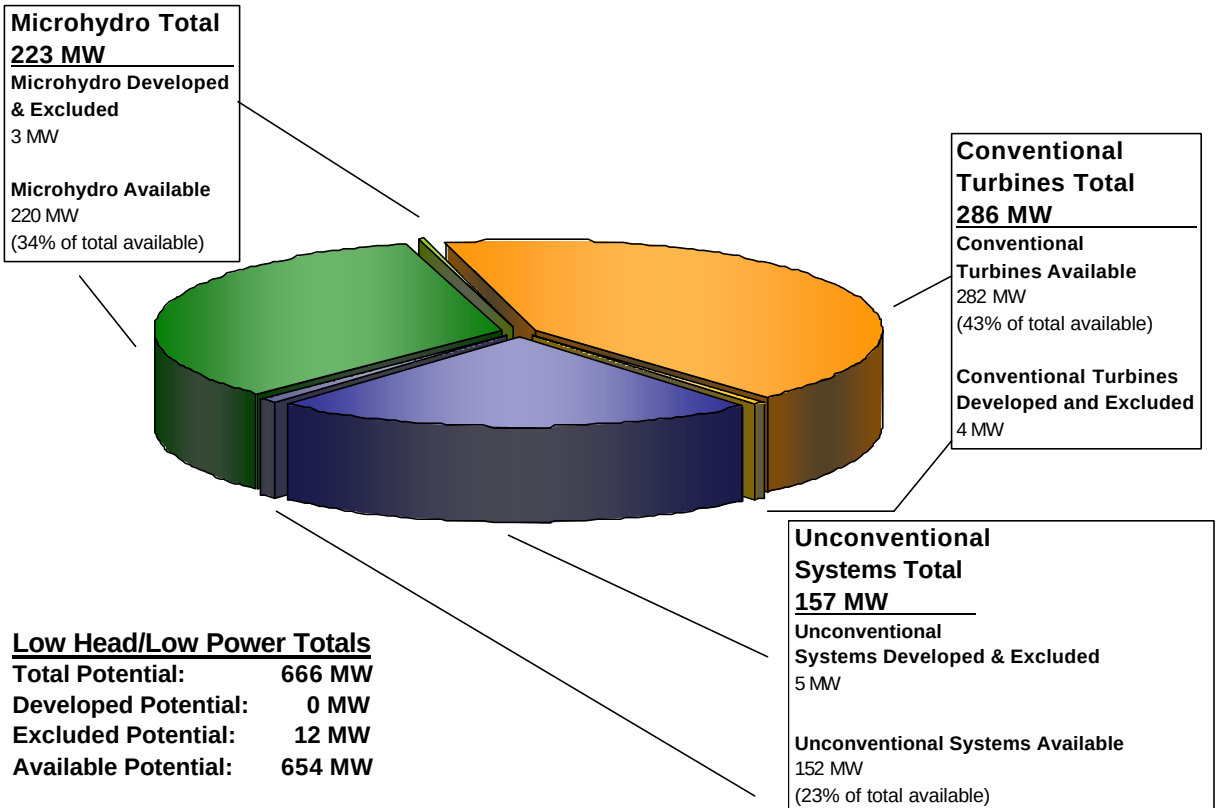


Figure B-179. Distribution of the low head/low power power potential (annual mean power) of water energy resources in Oklahoma among three low head/low power hydropower technology classes.

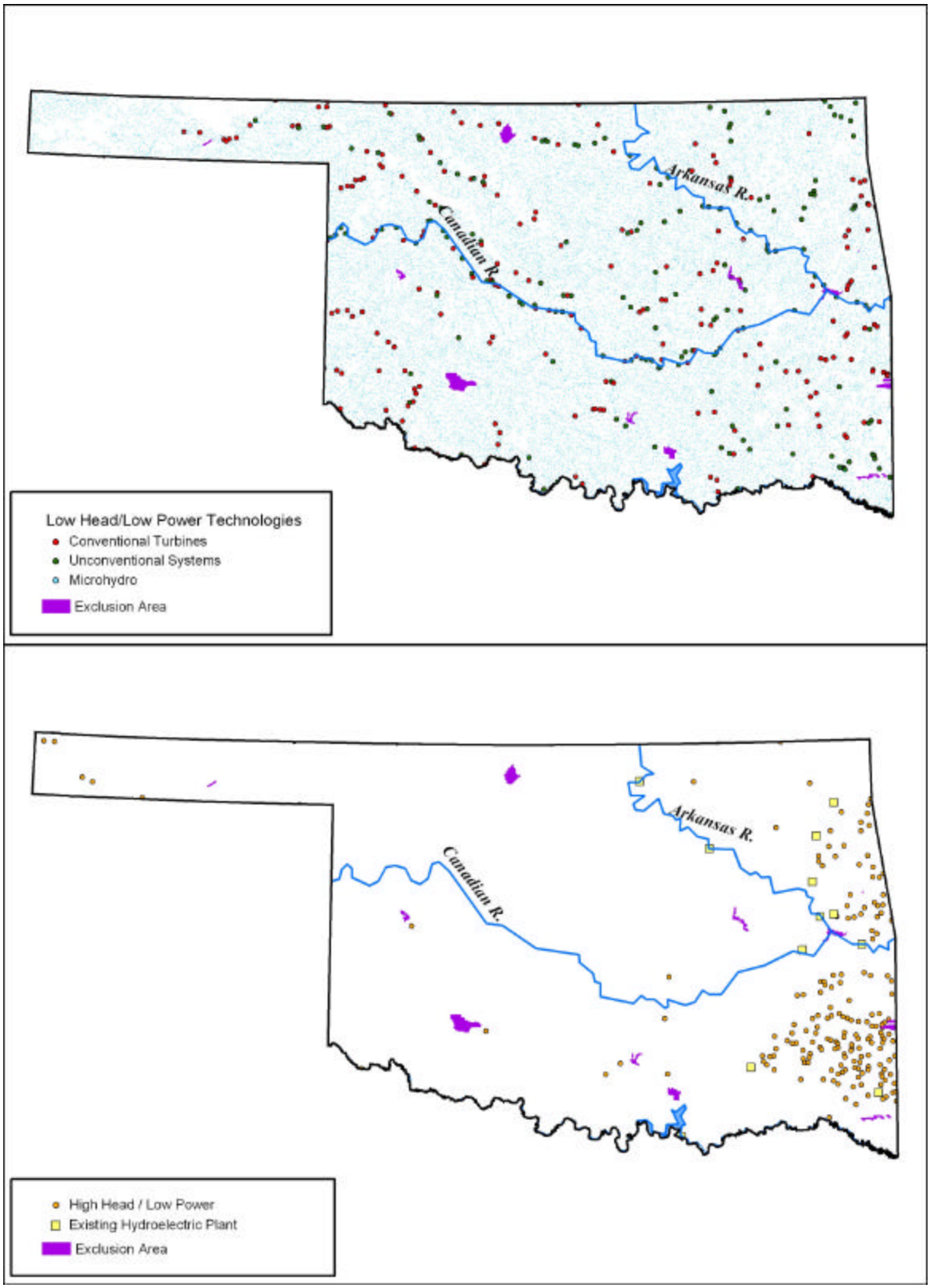


Figure B-180. Low head/low power and high head/low power water energy sites, and existing hydroelectric plants in Oklahoma.

B.37 Oregon

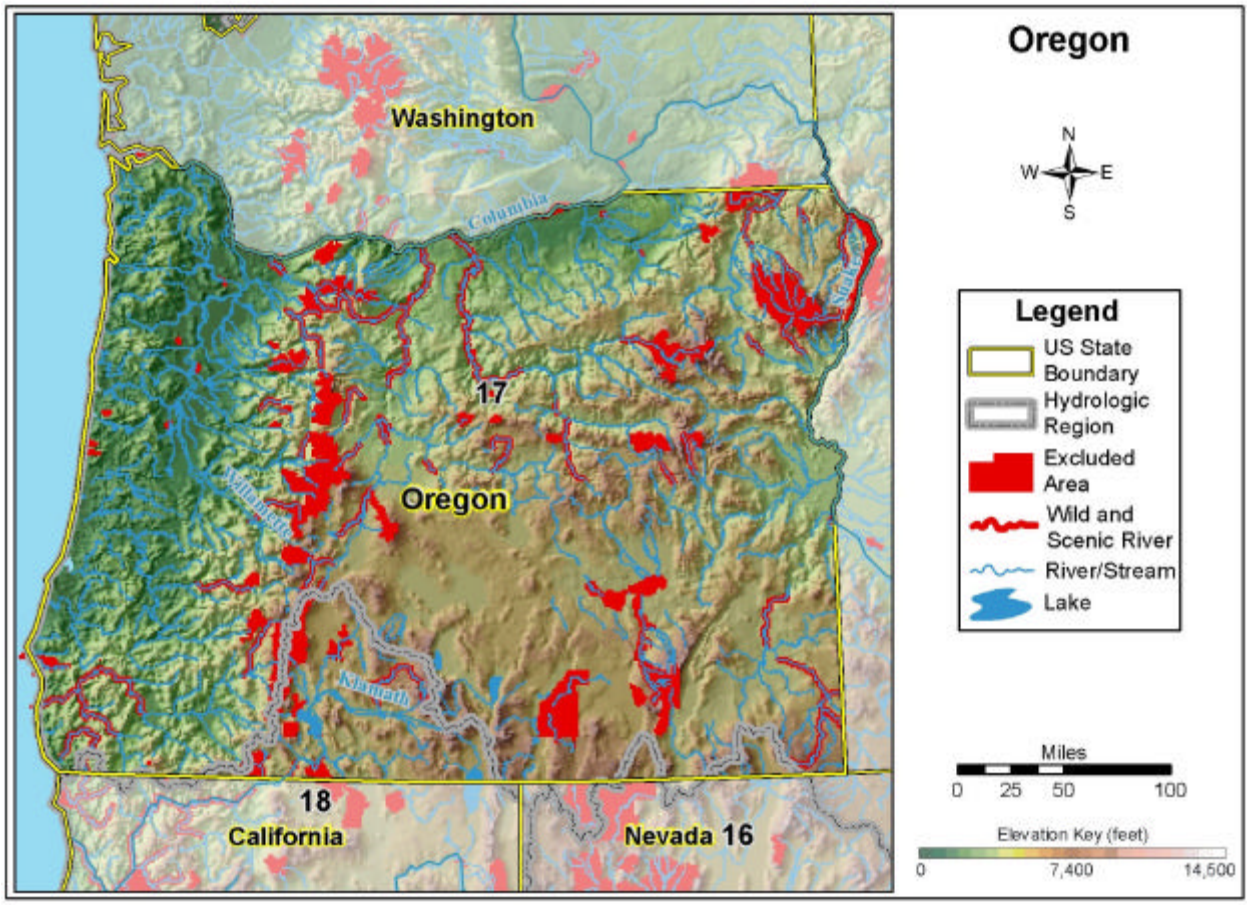


Figure B-181. Oregon.

Table B-37. Summary of results of hydropower resource assessment of Oregon.

Annual Mean Power (MW)	Total	Developed	Excluded	Available[a]
TOTAL POWER	**18,397**	**3,271**	**5,835**	**9,291**
TOTAL HIGH POWER	**15,341**	**3,258**	**5,392**	**6,691**
High Head/High Power	**12,862**	**3,258**	**4,378**	**5,226**
Low Head/High Power	**2,479**	**0**	**1,014**	**1,465**
TOTAL LOW POWER	**3,056**	**13**	**443**	**2,600**
High Head/Low Power	**2,307**	**11**	**365**	**1,931**
Low Head/Low Power	**749**	**2**	**78**	**669**
Conventional Turbine	259	1	29	229
Unconventional Systems	111	0	22	89
Microhydro	379	1	27	351

a. No feasibility or availability assessments have been performed. "Available" only indicates net potential after subtracting developed and excluded potentials from total potential.

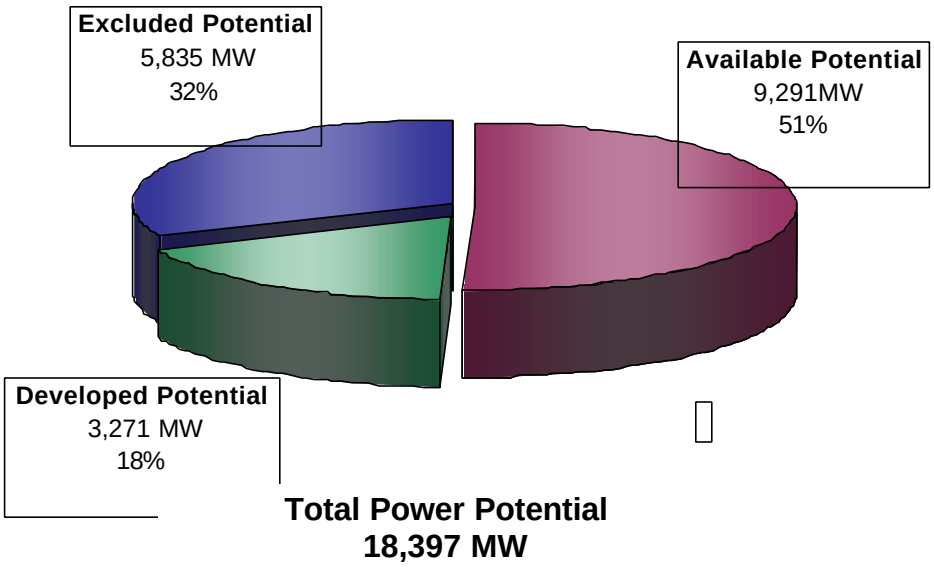


Figure B-182. Power category distribution of the total power potential (annual mean power) of water energy resources in Oregon.

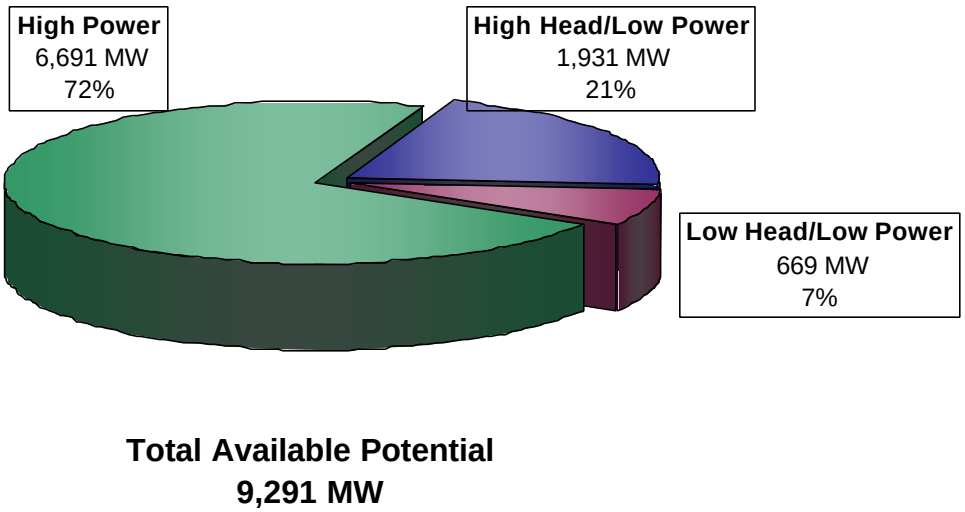


Figure B-183. Power class distribution of the available power potential (annual mean power) of water energy resources in Oregon.

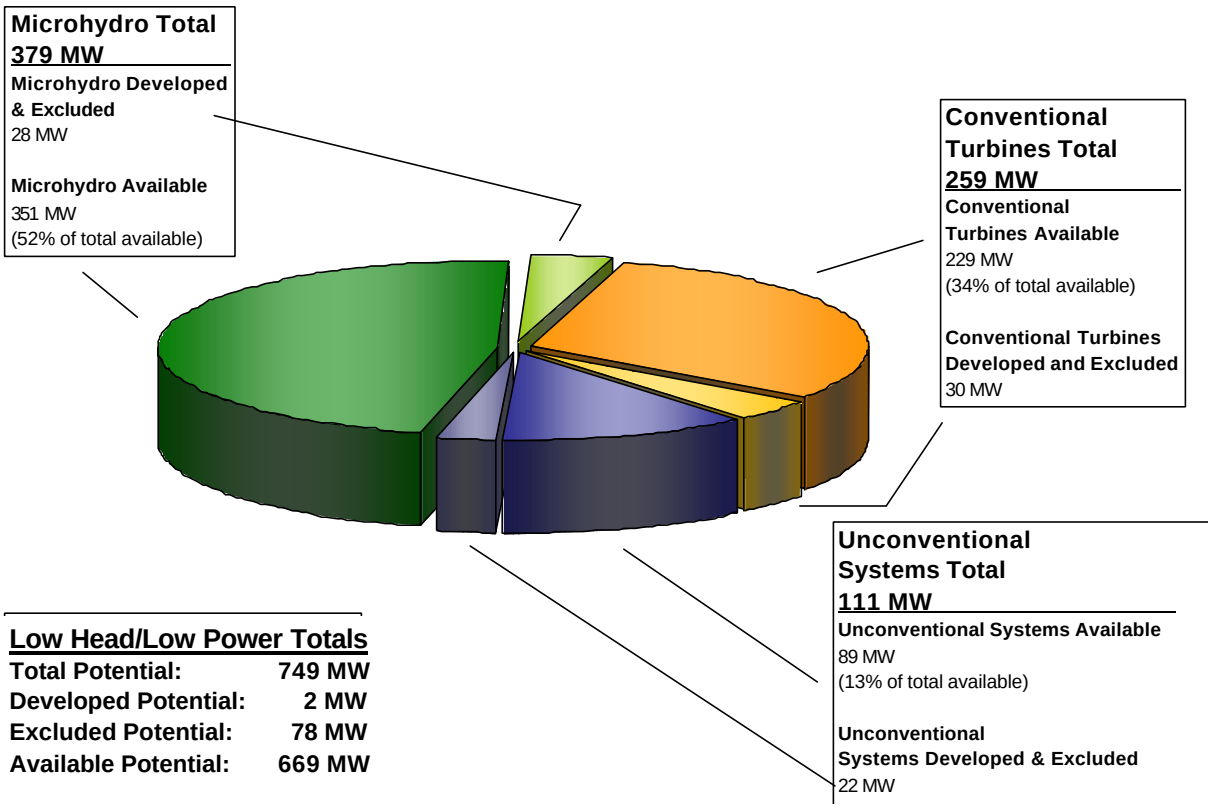


Figure B-184. Distribution of the low head/low power power potential (annual mean power) of water energy resources in Oregon among three low head/low power hydropower technology classes.

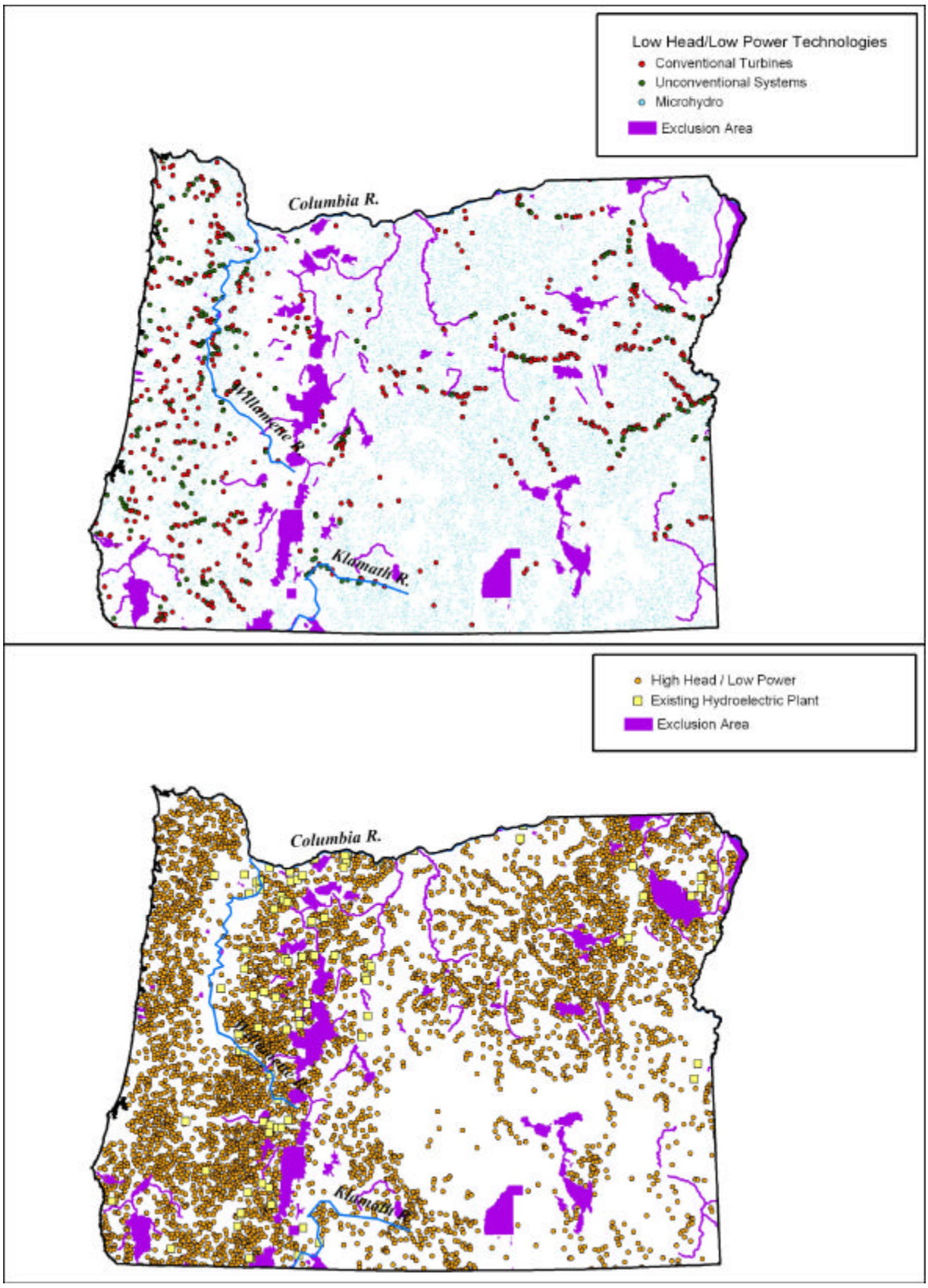


Figure B-185. Low head/low power and high head/low power water energy sites, and existing hydroelectric plants in Oregon.

B.38 Pennsylvania

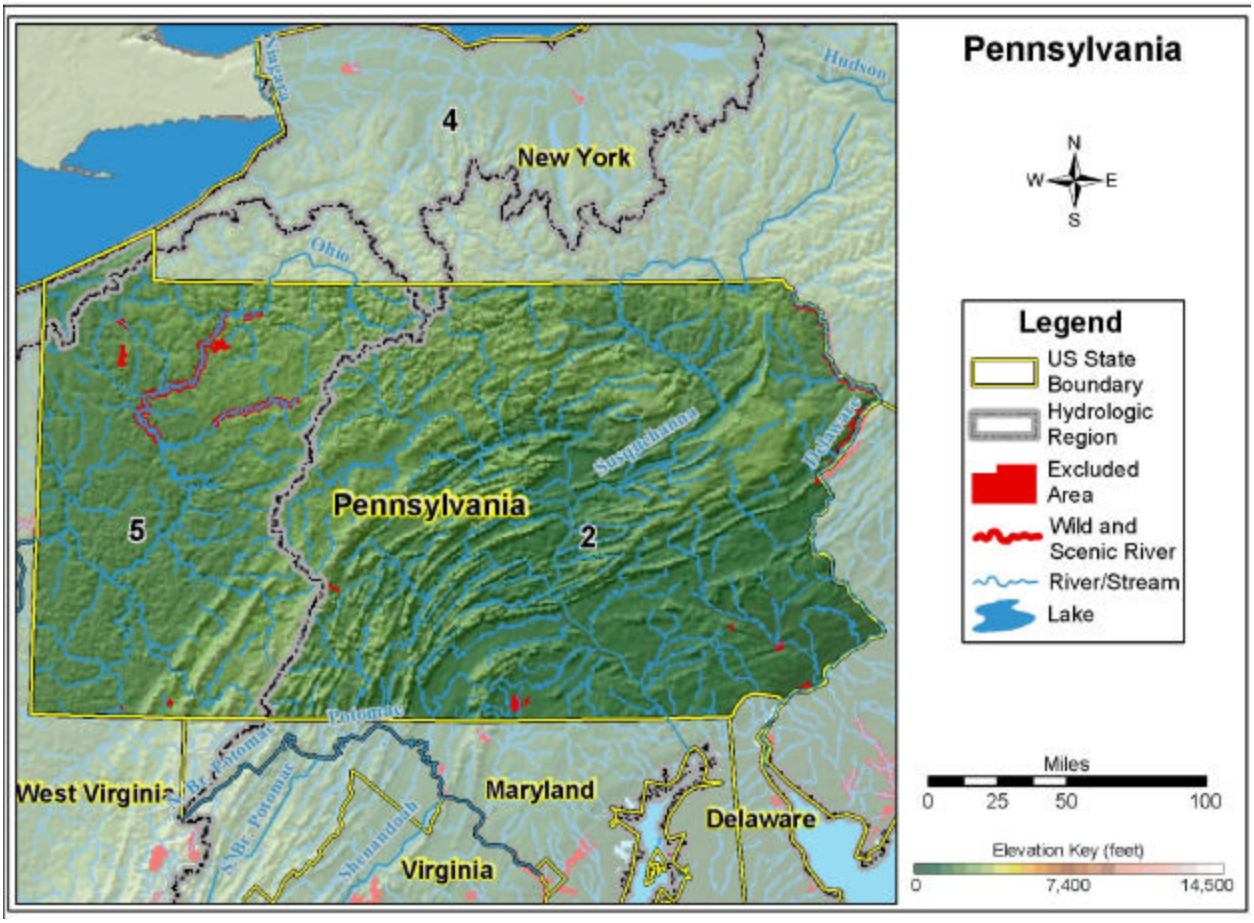


Figure B-186. Pennsylvania.

Table B-38. Summary of results of hydropower resource assessment of Pennsylvania.

Annual Mean Power (MW)	Total	Developed	Excluded	Available[a]
TOTAL POWER	**4,754**	**284**	**488**	**3,982**
TOTAL HIGH POWER	**3,265**	**282**	**448**	**2,535**
High Head/High Power	**1,570**	**233**	**182**	**1,155**
Low Head/High Power	**1,695**	**49**	**266**	**1,380**
TOTAL LOW POWER	**1,489**	**2**	**40**	**1,447**
High Head/Low Power	**980**	**1**	**30**	**949**
Low Head/Low Power	**509**	**1**	**10**	**498**
Conventional Turbine	190	1	4	185
Unconventional Systems	59	0	3	56
Microhydro	260	0	3	257

a. No feasibility or availability assessments have been performed. "Available" only indicates net potential after subtracting developed and excluded potentials from total potential.

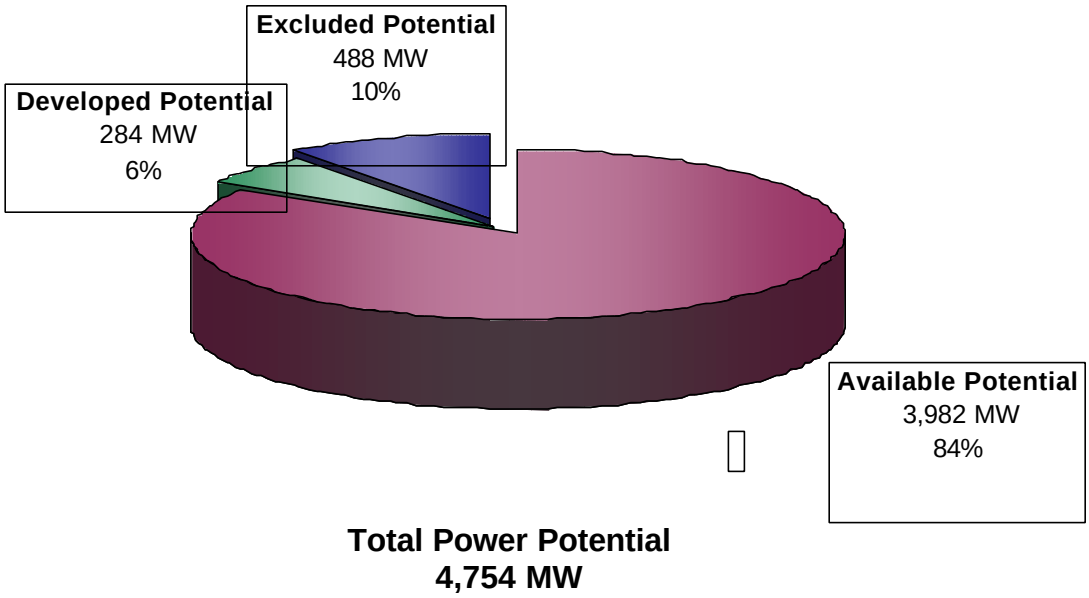


Figure B-187. Power category distribution of the total power potential (annual mean power) of water energy resources in Pennsylvania.

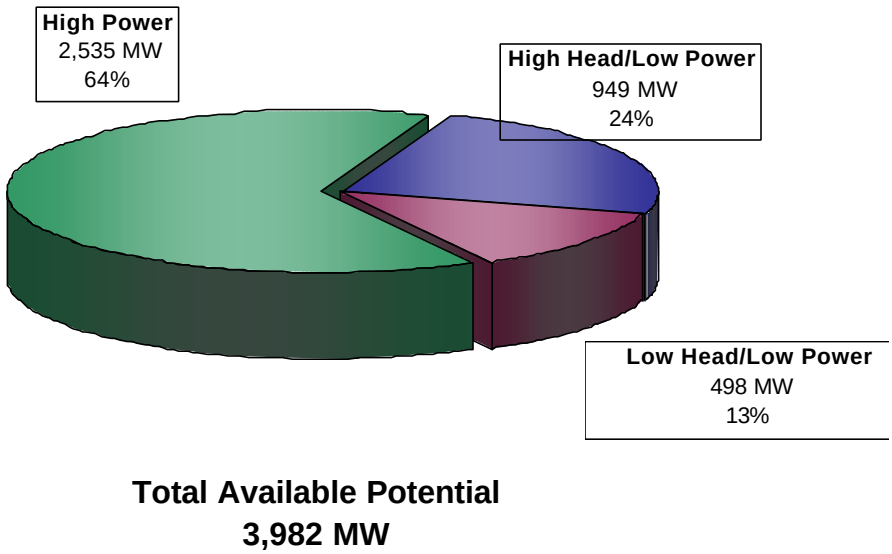


Figure B-188. Power class distribution of the available power potential (annual mean power) of water energy resources in Pennsylvania.

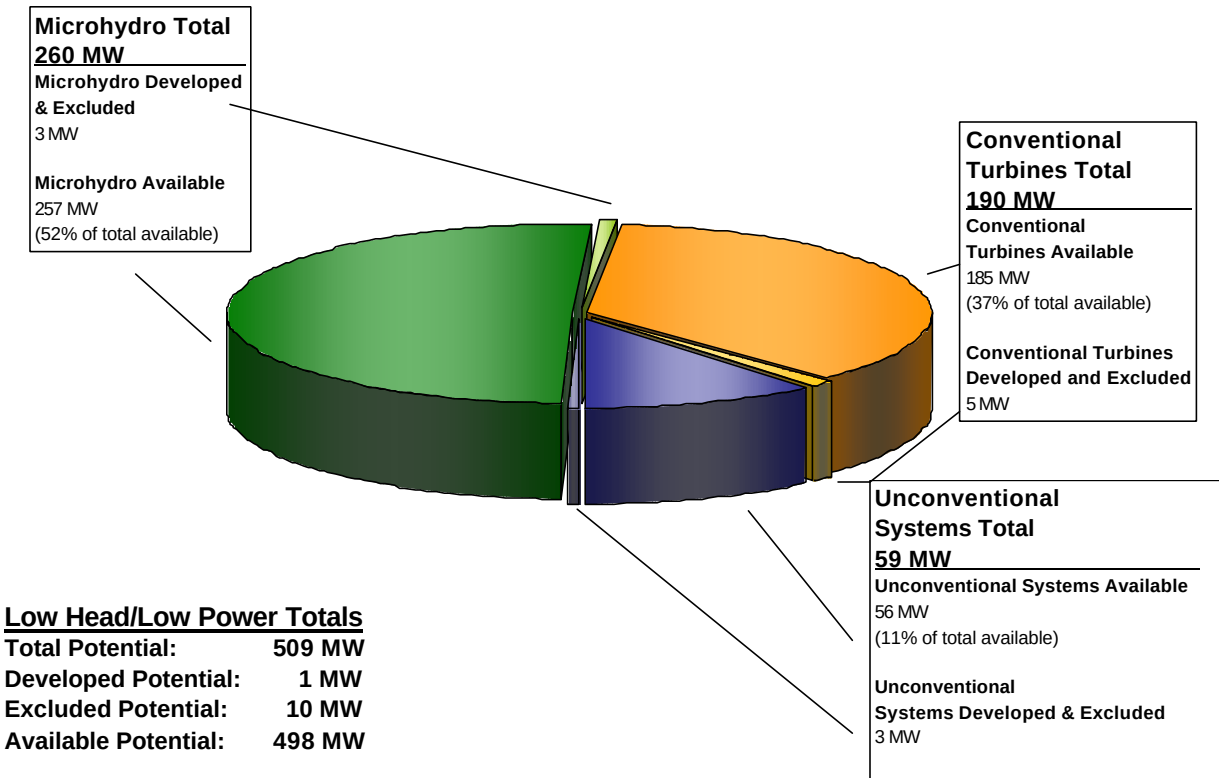


Figure B-189. Distribution of the low head/low power power potential (annual mean power) of water energy resources in Pennsylvania among three low head/low power hydropower technology classes.

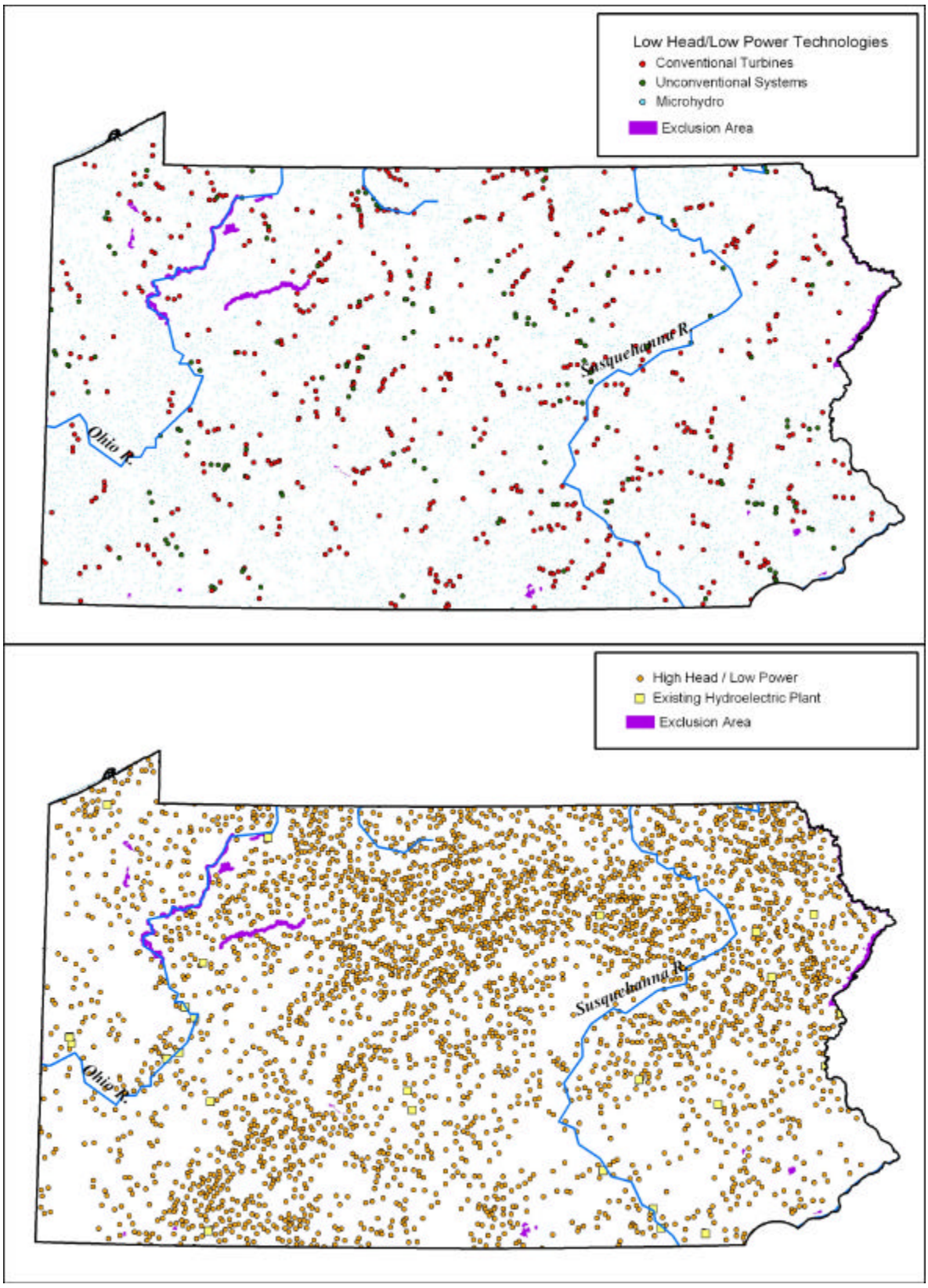


Figure B-190. Low head/low power and high head/low power water energy sites, and existing hydroelectric plants in Pennsylvania.

B.39 Rhode Island

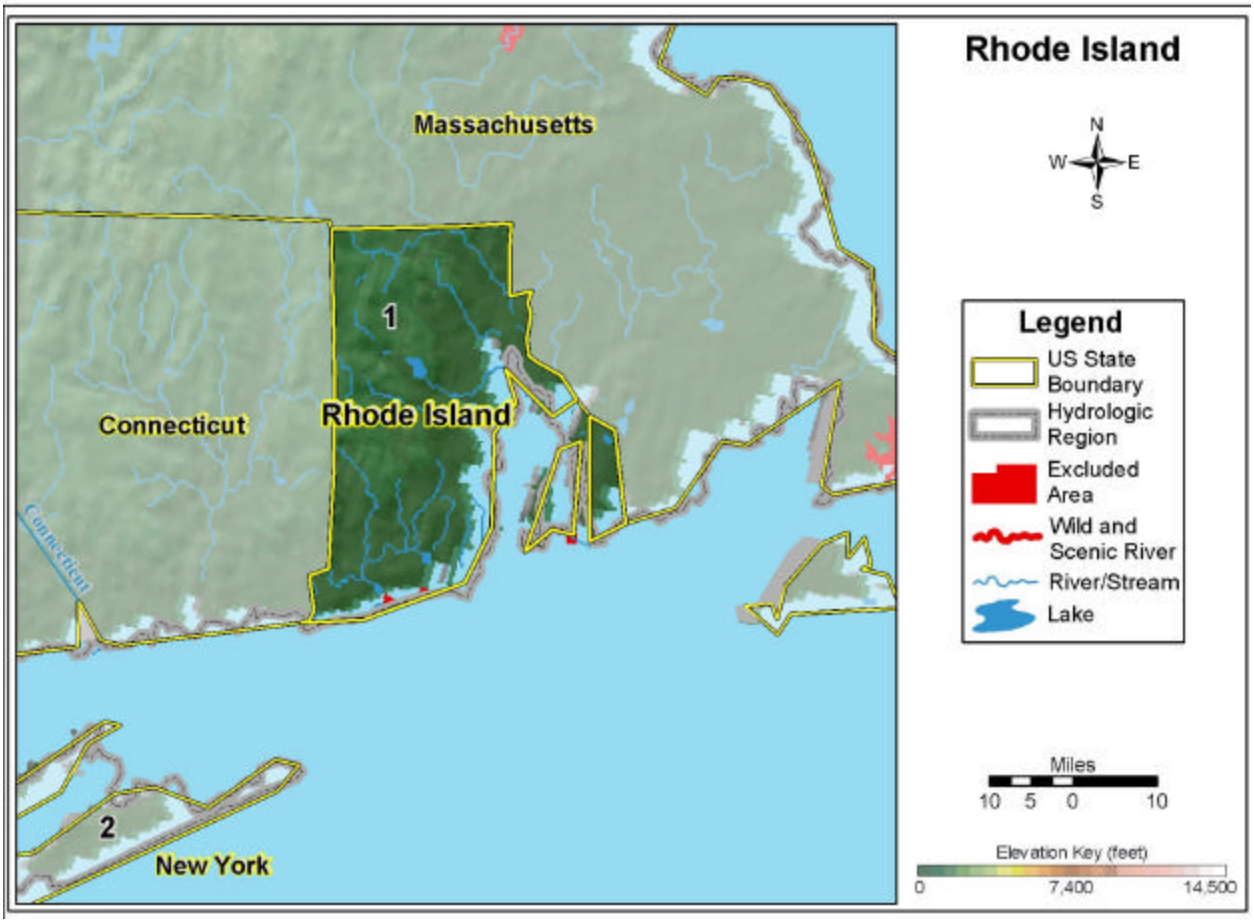


Figure B-191. Rhode Island.

Table B-39. Summary of results of hydropower resource assessment of Rhode Island.

Annual Mean Power (MW)	Total	Developed	Excluded	Available[a]
TOTAL POWER	**37**	**4**	**0**	**33**
TOTAL HIGH POWER	**16**	**1**	**0**	**15**
High Head/High Power	**14**	**1**	**0**	**13**
Low Head/High Power	**2**	**0**	**0**	**2**
TOTAL LOW POWER	**21**	**3**	**0**	**18**
High Head/Low Power	**9**	**0**	**0**	**9**
Low Head/Low Power	**12**	**3**	**0**	**9**
Conventional Turbine	5	3	0	2
Unconventional Systems	1	0	0	1
Microhydro	6	0	0	6

a. No feasibility or availability assessments have been performed. "Available" only indicates net potential after subtracting developed and excluded potentials from total potential.

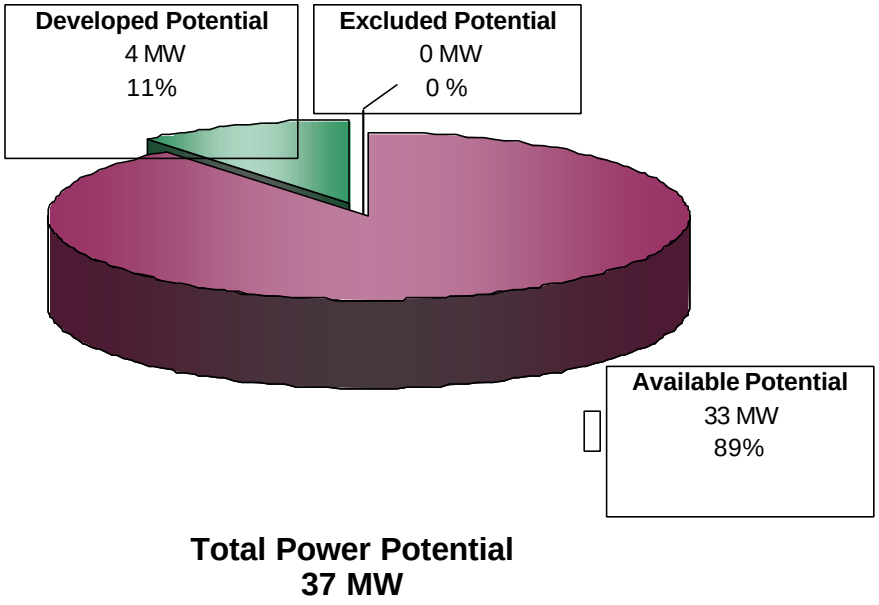


Figure B-192. Power category distribution of the total power potential (annual mean power) of water energy resources in Rhode Island.

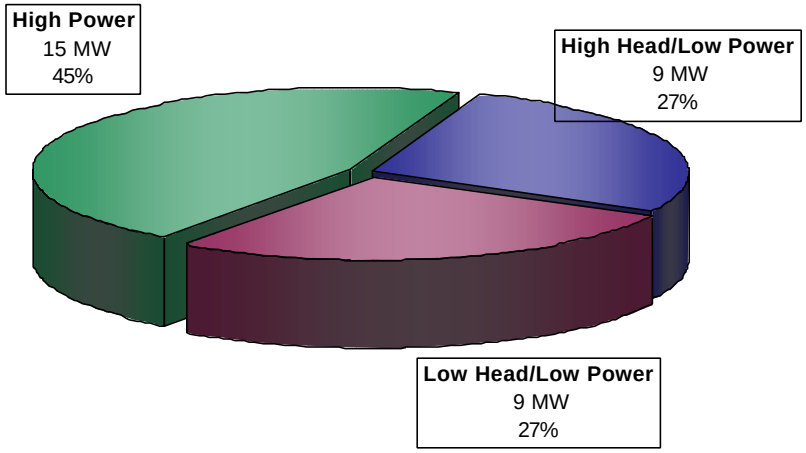


Figure B-193. Power class distribution of the available power potential (annual mean power) of water energy resources in Rhode Island.

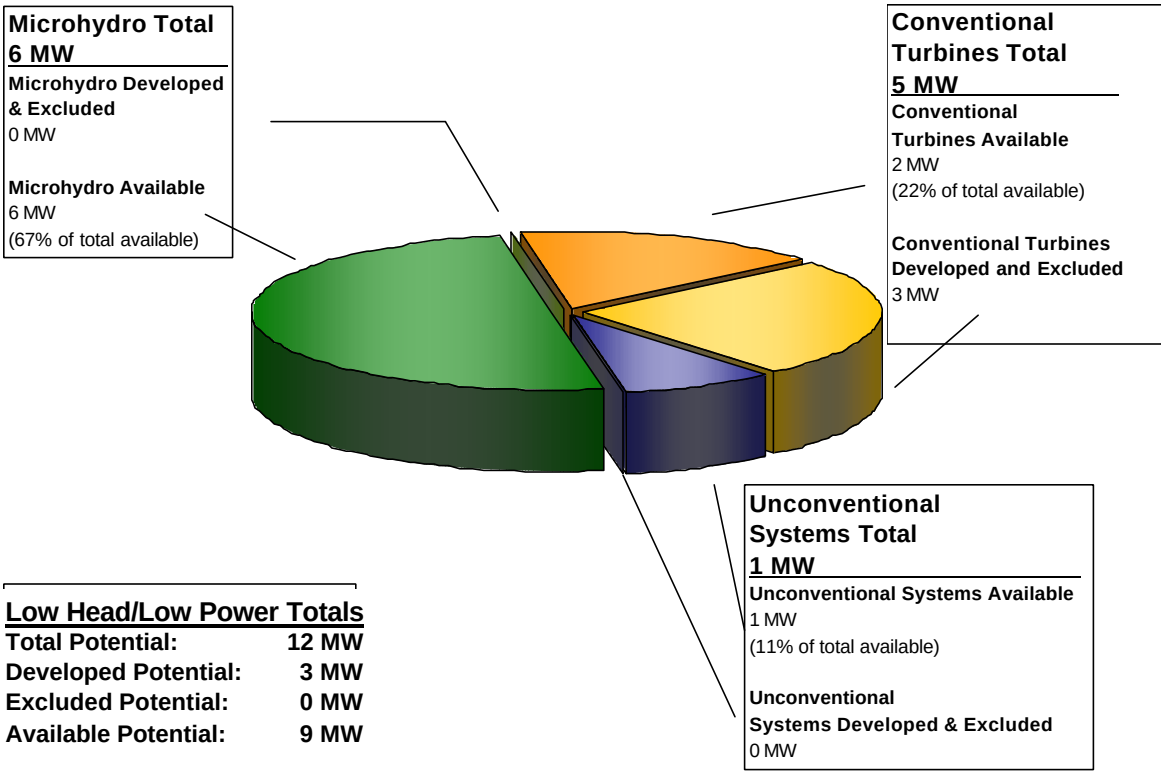


Figure B-194. Distribution of the low head/low power power potential (annual mean power) of water energy resources in Rhode Island among three low head/low power hydropower technology classes.

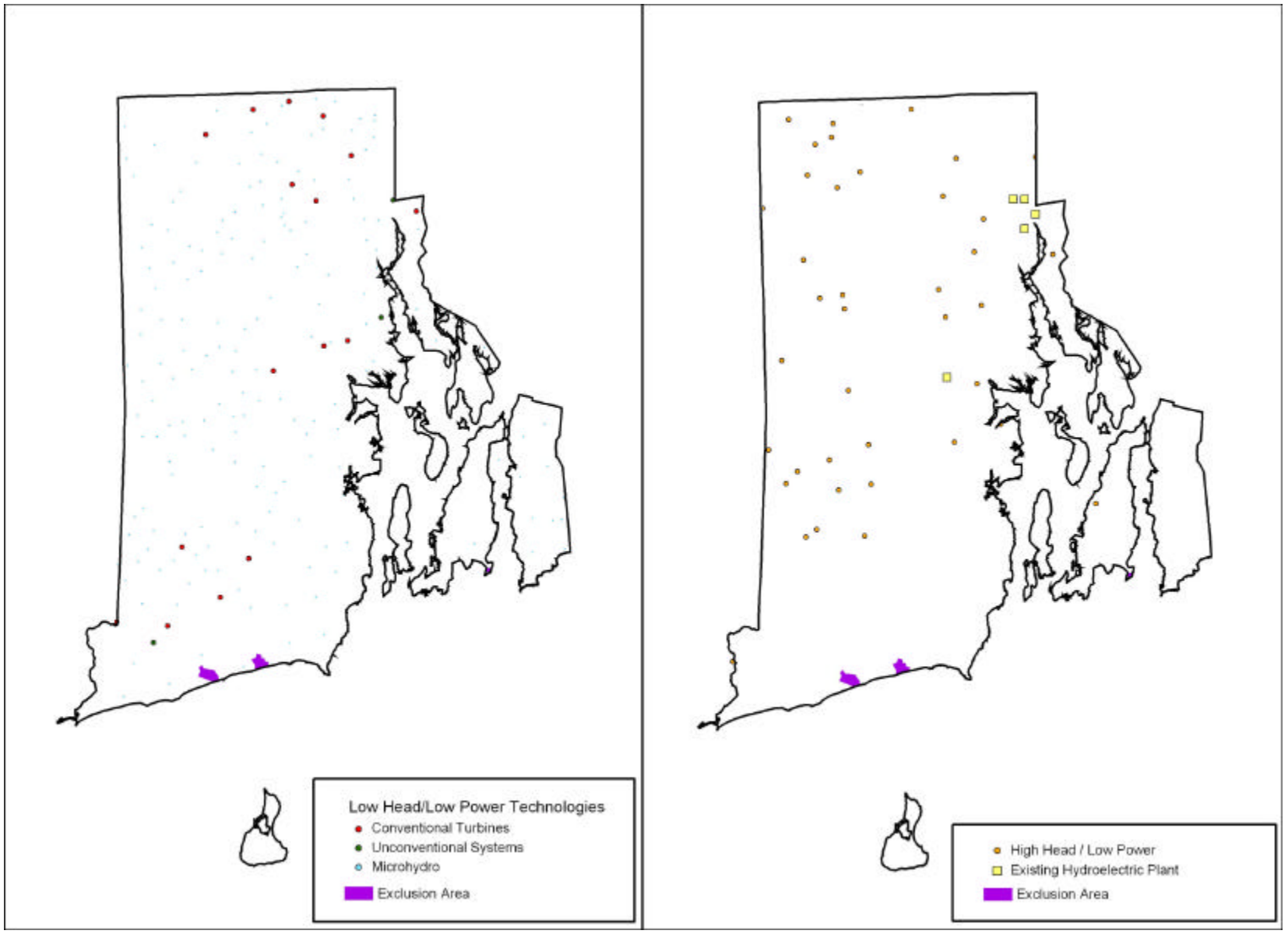


Figure B-195. Low head/low power and high head/low power water energy sites, and existing hydroelectric plants in Rhode Island.

B.40 South Carolina

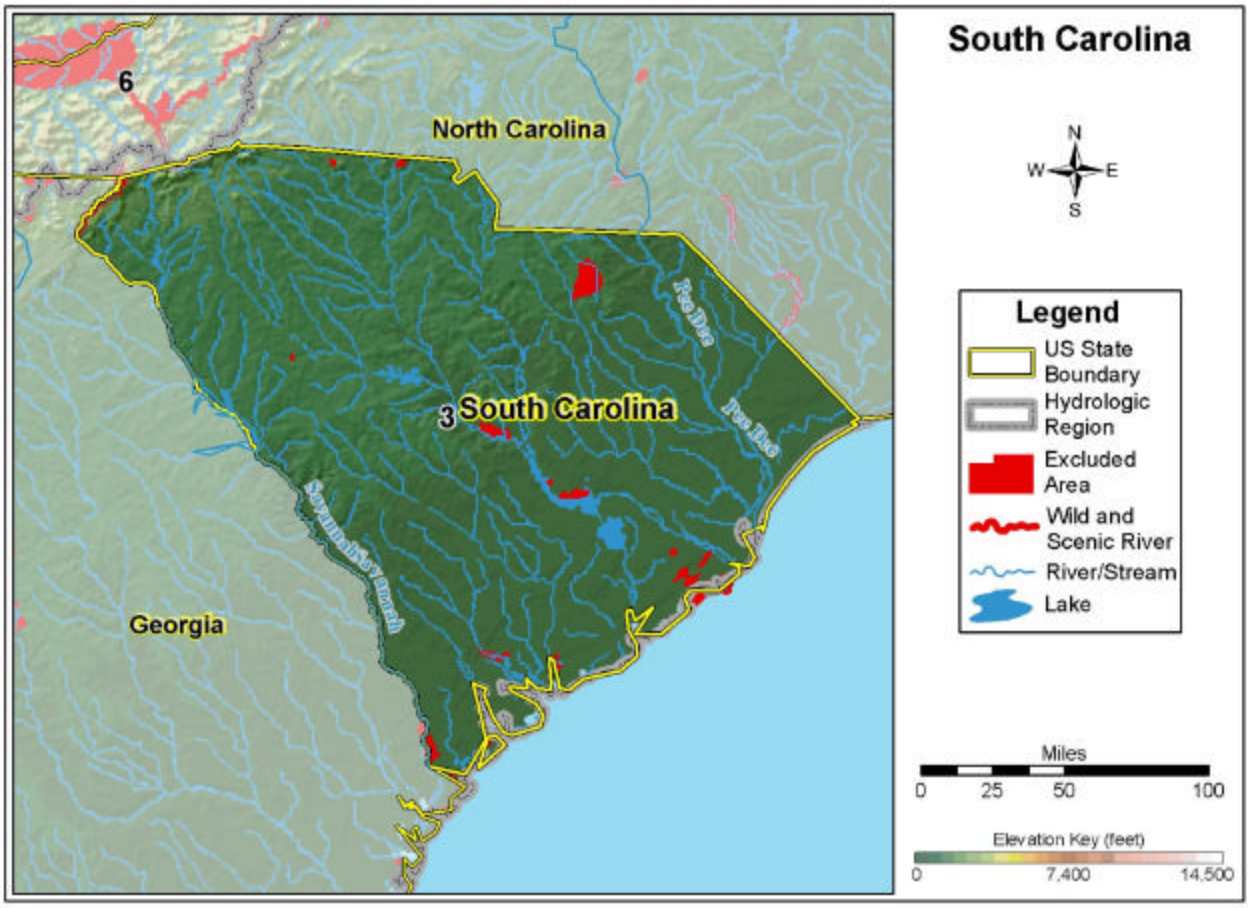


Figure B-196. South Carolina.

Table B-40. Summary of results of hydropower resource assessment of South Carolina.

Annual Mean Power (MW)	Total	Developed	Excluded	Available[a]
TOTAL POWER	**1,325**	**428**	**49**	**848**
TOTAL HIGH POWER	**972**	**420**	**43**	**509**
High Head/High Power	**487**	**415**	**28**	**44**
Low Head/High Power	**485**	**5**	**15**	**465**
TOTAL LOW POWER	**353**	**8**	**6**	**339**
High Head/Low Power	**86**	**5**	**3**	**78**
Low Head/Low Power	**267**	**3**	**3**	**261**
Conventional Turbine	72	3	0	69
Unconventional Systems	81	0	2	79
Microhydro	114	0	1	113

a. No feasibility or availability assessments have been performed. "Available" only indicates net potential after subtracting developed and excluded potentials from total potential.

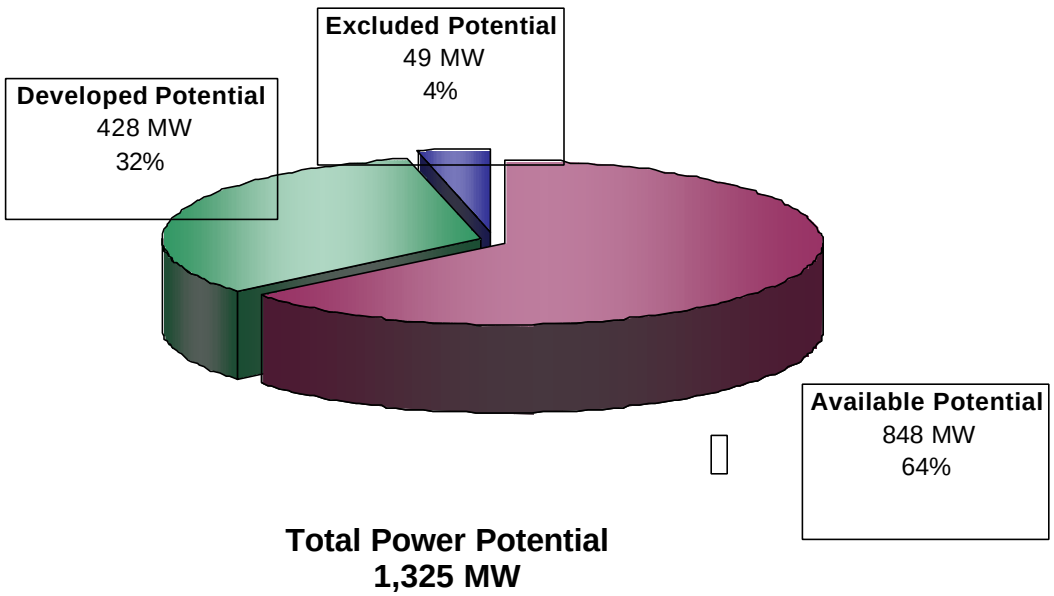


Figure B-197. Power category distribution of the total power potential (annual mean power) of water energy resources in South Carolina.

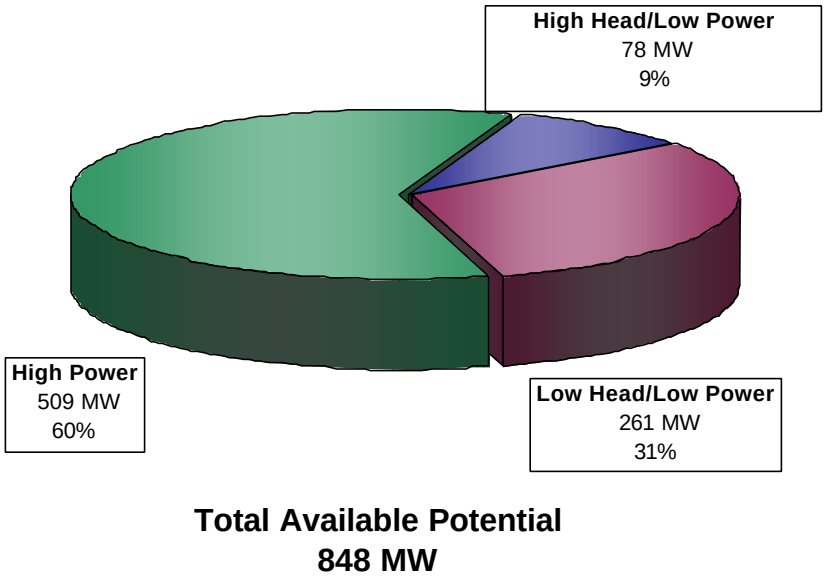


Figure B-198. Power class distribution of the available power potential (annual mean power) of water energy resources in South Carolina.

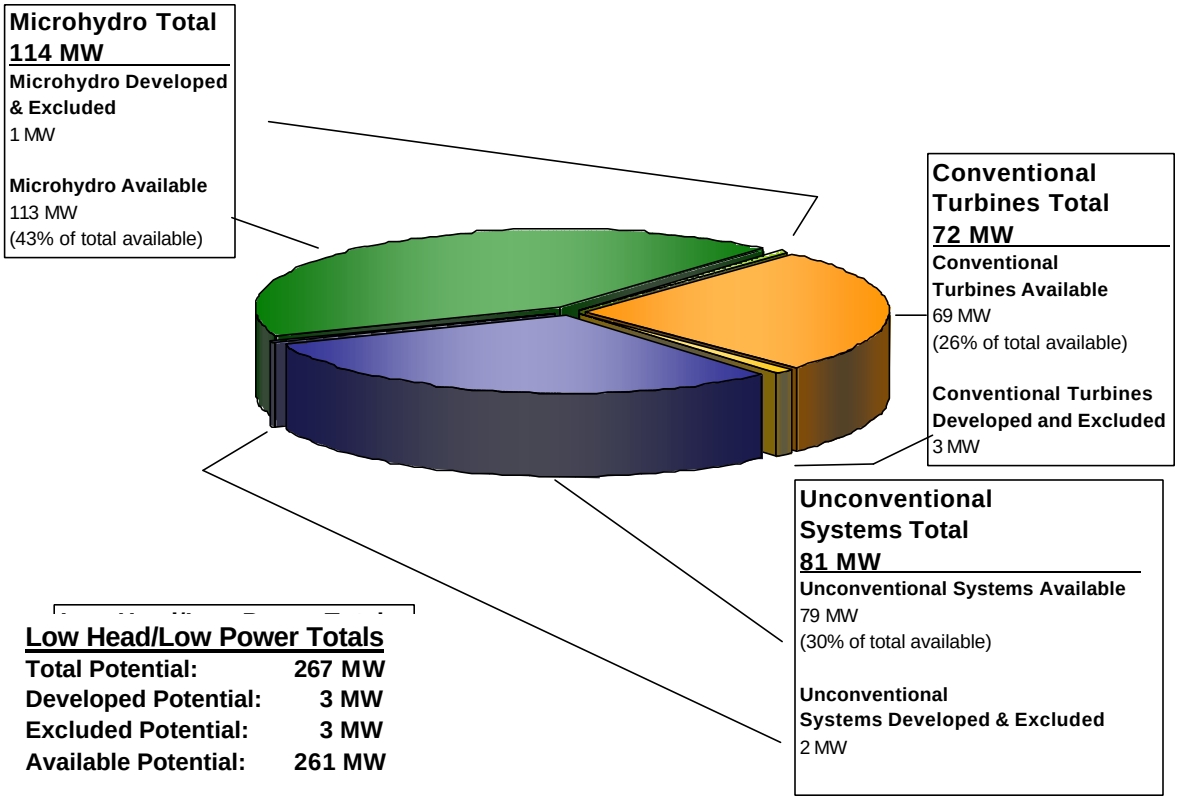


Figure B-199. Distribution of the low head/low power power potential (annual mean power) of water energy resources in South Carolina among three low head/low power hydropower technology classes.

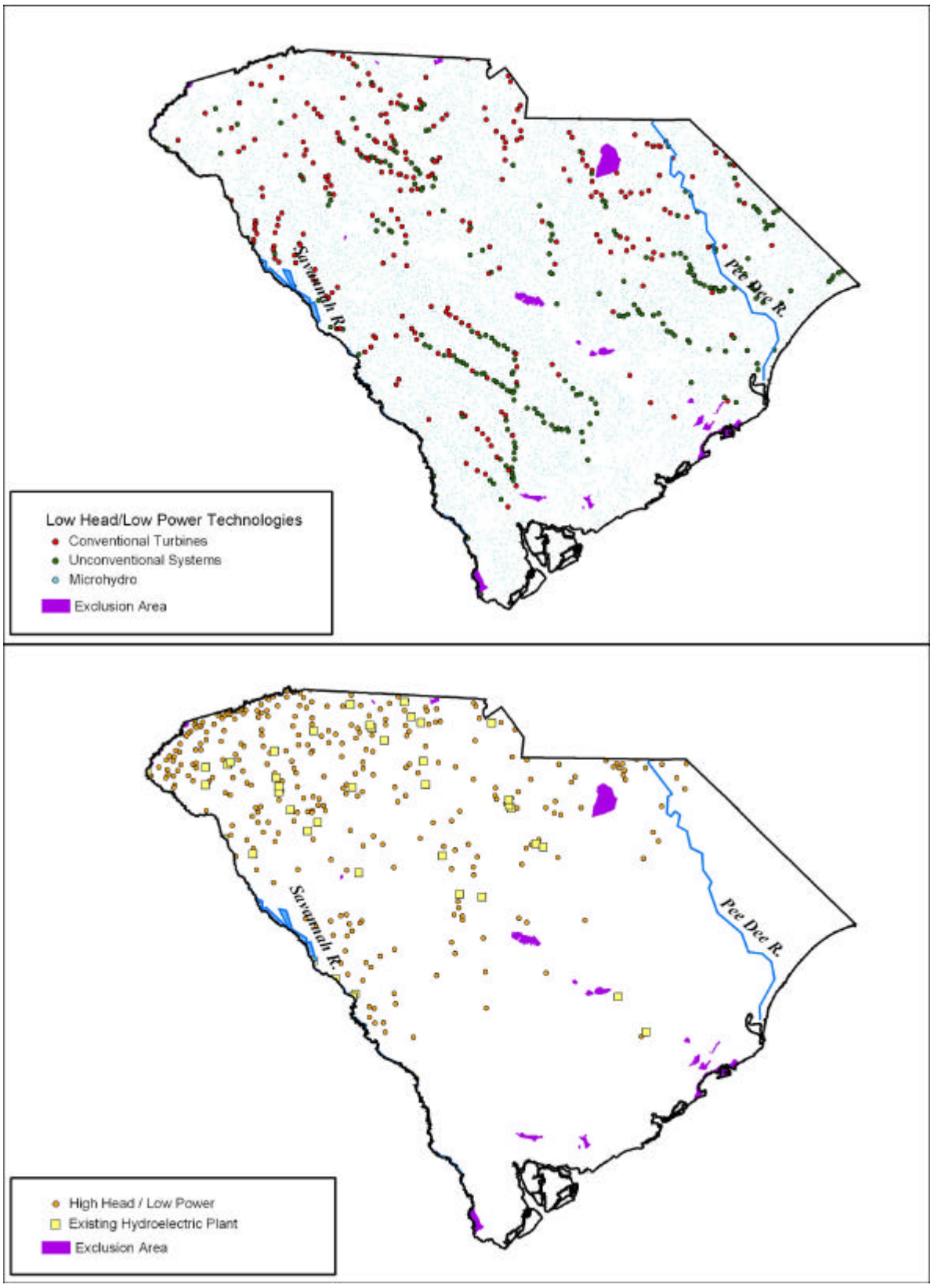


Figure B-200. Low head/low power and high head/low power water energy sites, and existing hydroelectric plants in South Carolina.

B.41 South Dakota

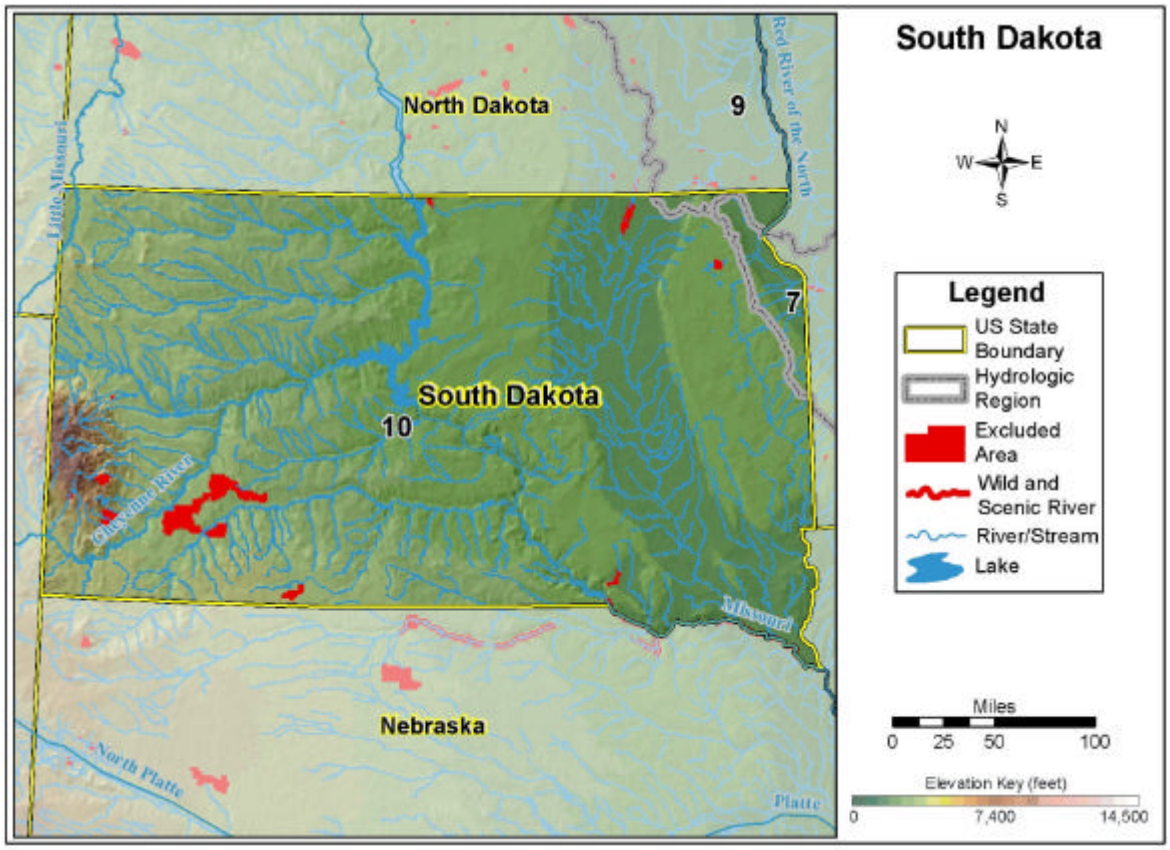


Figure B-201. South Dakota.

Table B-41. Summary of results of hydropower resource assessment of South Dakota.

Annual Mean Power (MW)	Total	Developed[a]	Excluded[a]	Available[a,b]
TOTAL POWER	**858**	622	67	169
TOTAL HIGH POWER	**423**	365	58	0
High Head/High Power	**323**	323	0	0
Low Head/High Power	**100**	42	58	0
TOTAL LOW POWER	**435**	257	9	169
High Head/Low Power	**105**	102	3	0
Low Head/Low Power	**330**	155	6	169
Conventional Turbine	120	117	3	0
Unconventional Systems	33	32	1	0
Microhydro	177	6	2	169

a. Developed high head/high power potential in exclusion zones exceeded the total amount of potential in exclusion zones in this power class by 90 MW probably because the developed power is made up of resources in other power classes. Assuming that all the excluded potential in this power class has been developed resulted in 299 MW of "excess" developed power in the high head/high power class. This "excess" developed power in the high head/high power class was rolled downward into successively lower power classes in this table to the extent that each lower power class could accommodate additional developed power without creating a negative available potential

b. No feasibility or availability assessments have been performed. "Available" only indicates net potential after subtracting developed and excluded potentials from total potential.

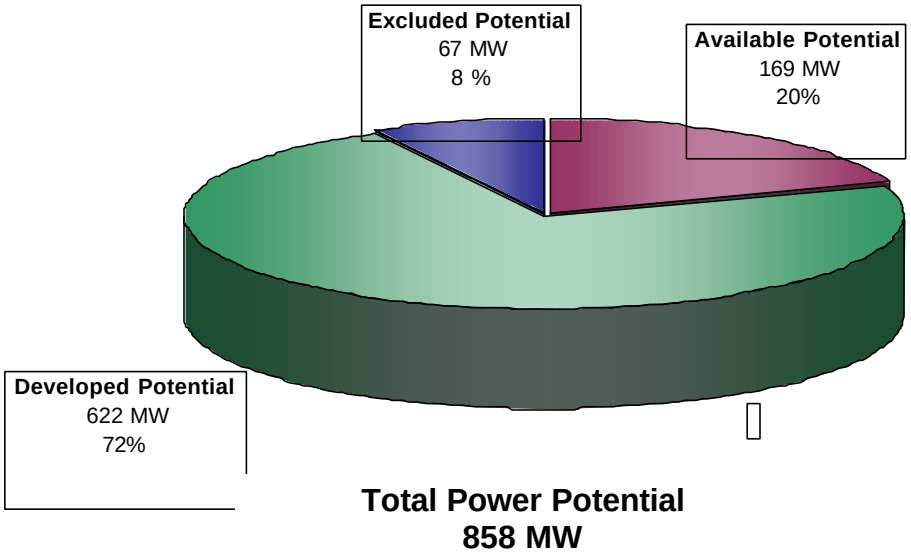


Figure B-202. Power category distribution of the total power potential (annual mean power) of water energy resources in South Dakota.

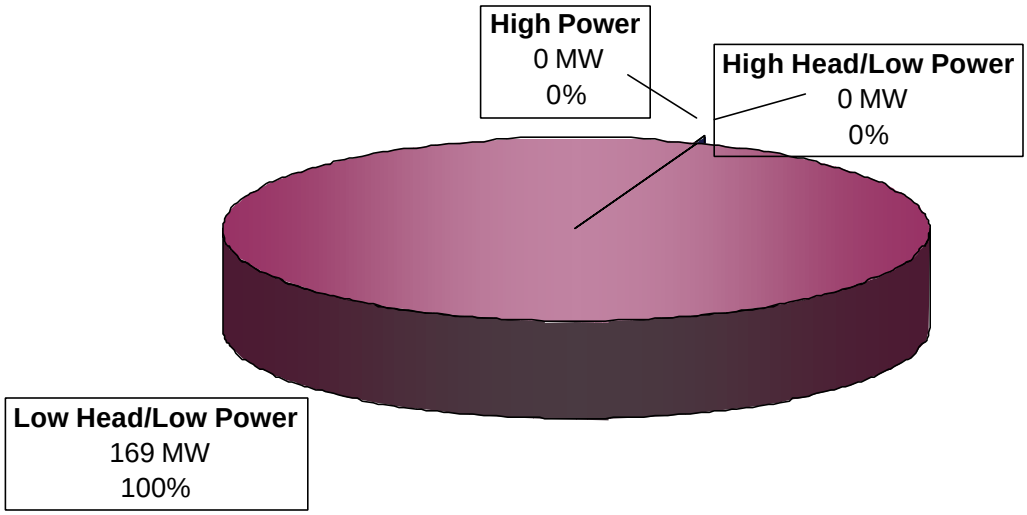


Figure B-203. Power class distribution of the available power potential (annual mean power) of water energy resources in South Dakota.

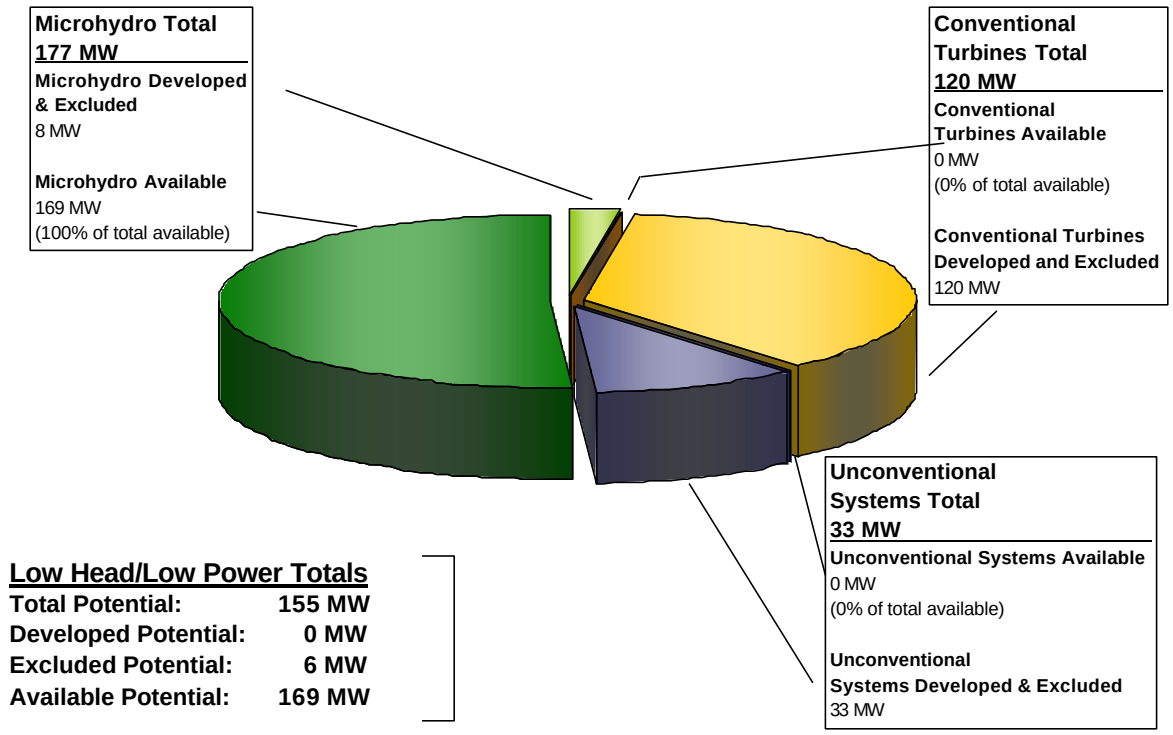


Figure B-204. Distribution of the low head/low power power potential (annual mean power) of water energy resources in South Dakota among three low head/low power hydropower technology classes.

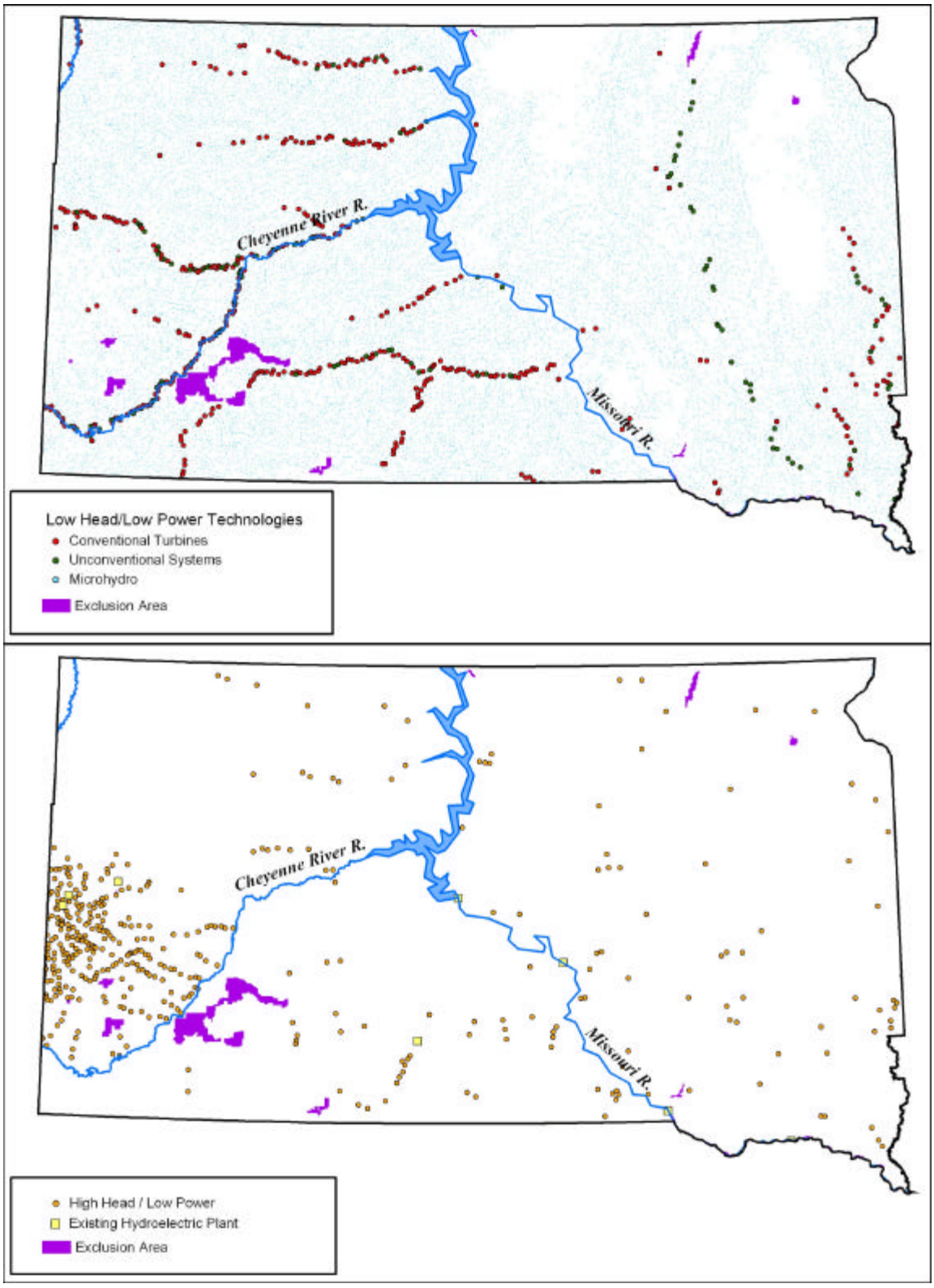


Figure B-205. Low head/low power and high head/low power water energy sites, and existing hydroelectric plants in South Dakota. (Note: Water energy sites shown in this figure are probably sites of power potential even though redistribution of "excess" developed power resulted in no available low power potential except in the microhydro technology class.)

B.42 Tennessee

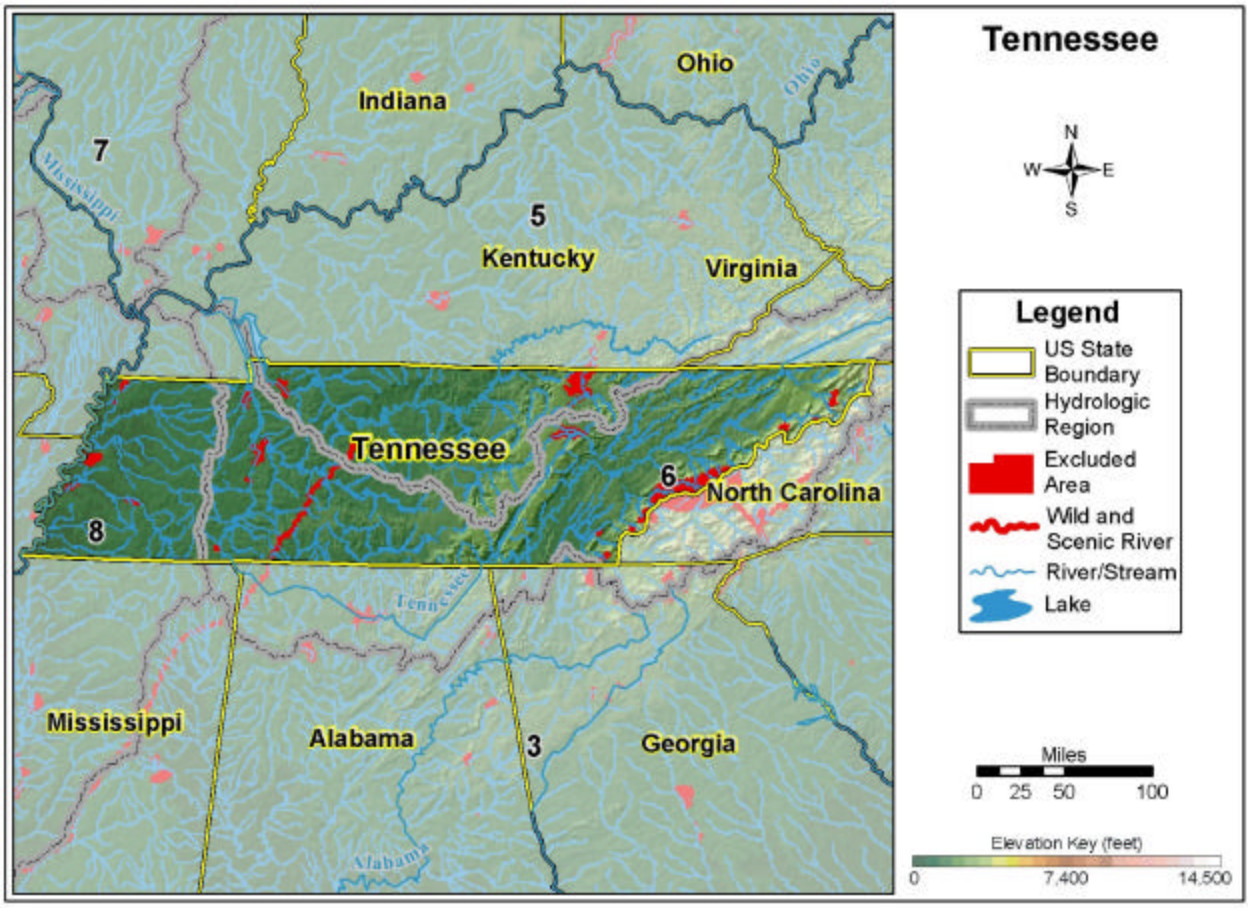


Figure B-206. Tennessee.

Table B-42. Summary of results of hydropower resource assessment of Tennessee.

Annual Mean Power (MW)	Total	Developed	Excluded	Available[a]
TOTAL POWER	**5,284**	**1,082**	**472**	**3,730**
TOTAL HIGH POWER	**4,368**	**1,082**	**386**	**2,900**
High Head/High Power	**1,606**	**1,061**	**278**	**267**
Low Head/High Power	**2,762**	**21**	**108**	**2,633**
TOTAL LOW POWER	**916**	**0**	**86**	**830**
High Head/Low Power	**463**	**0**	**66**	**397**
Low Head/Low Power	**453**	**0**	**20**	**433**
Conventional Turbine	151	0	6	145
Unconventional Systems	84	0	6	78
Microhydro	218	0	8	210

a. No feasibility or availability assessments have been performed. "Available" only indicates net potential after subtracting developed and excluded potentials from total potential.

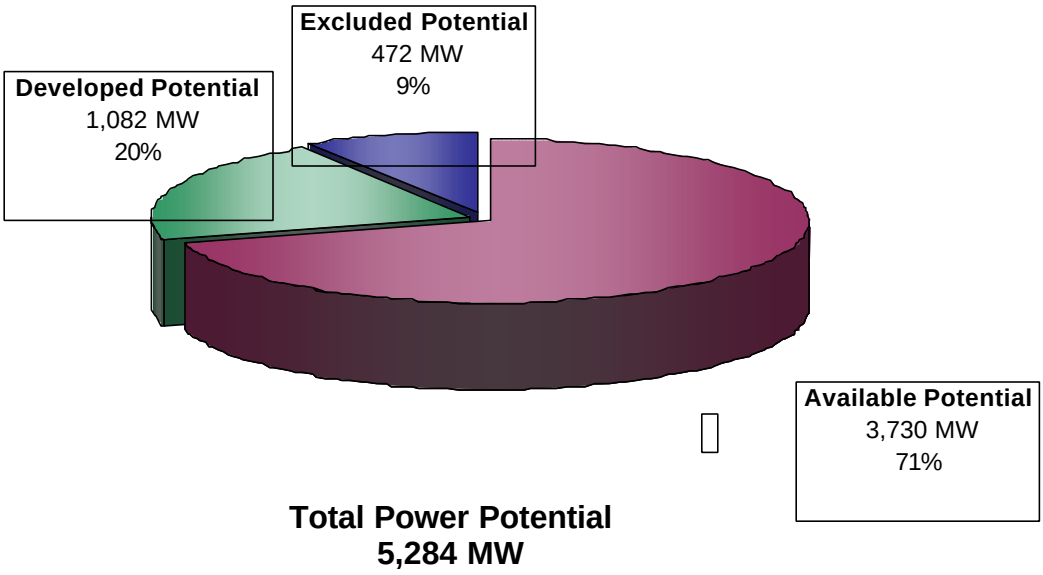


Figure B-207. Power category distribution of the total power potential (annual mean power) of water energy resources in Tennessee.

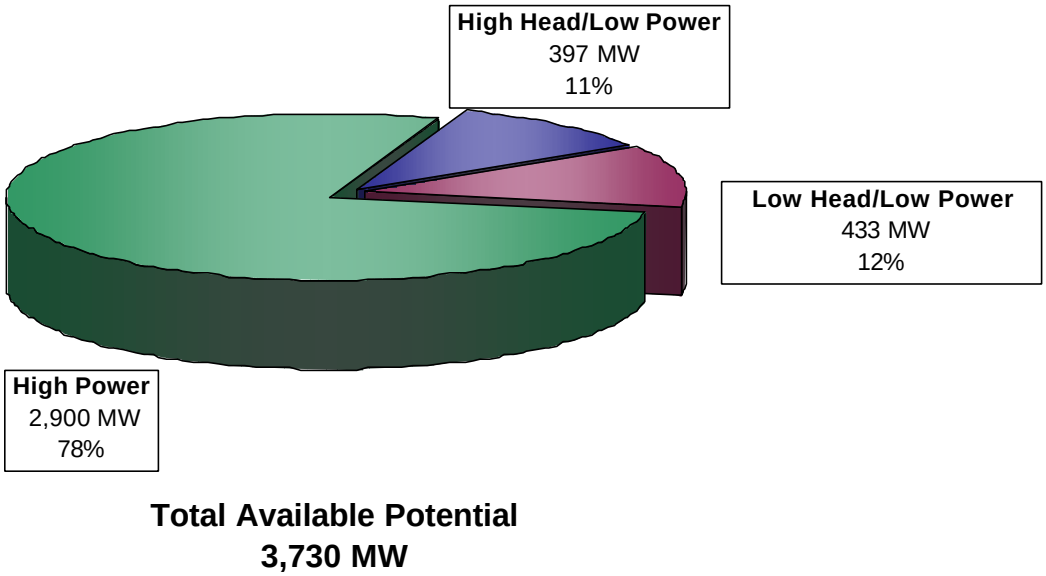


Figure B-208. Power class distribution of the available power potential (annual mean power) of water energy resources in Tennessee.

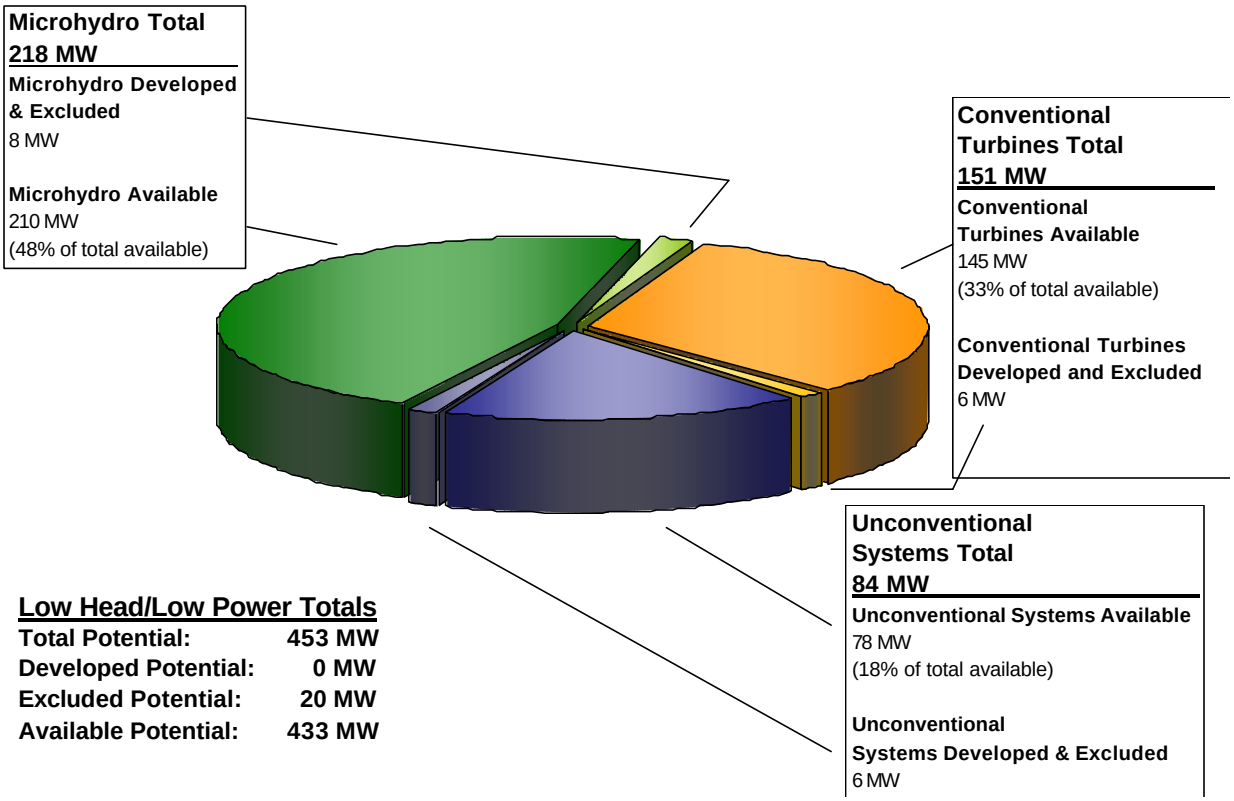


Figure B-209. Distribution of the low head/low power power potential (annual mean power) of water energy resources in Tennessee among three low head/low power hydropower technology classes.

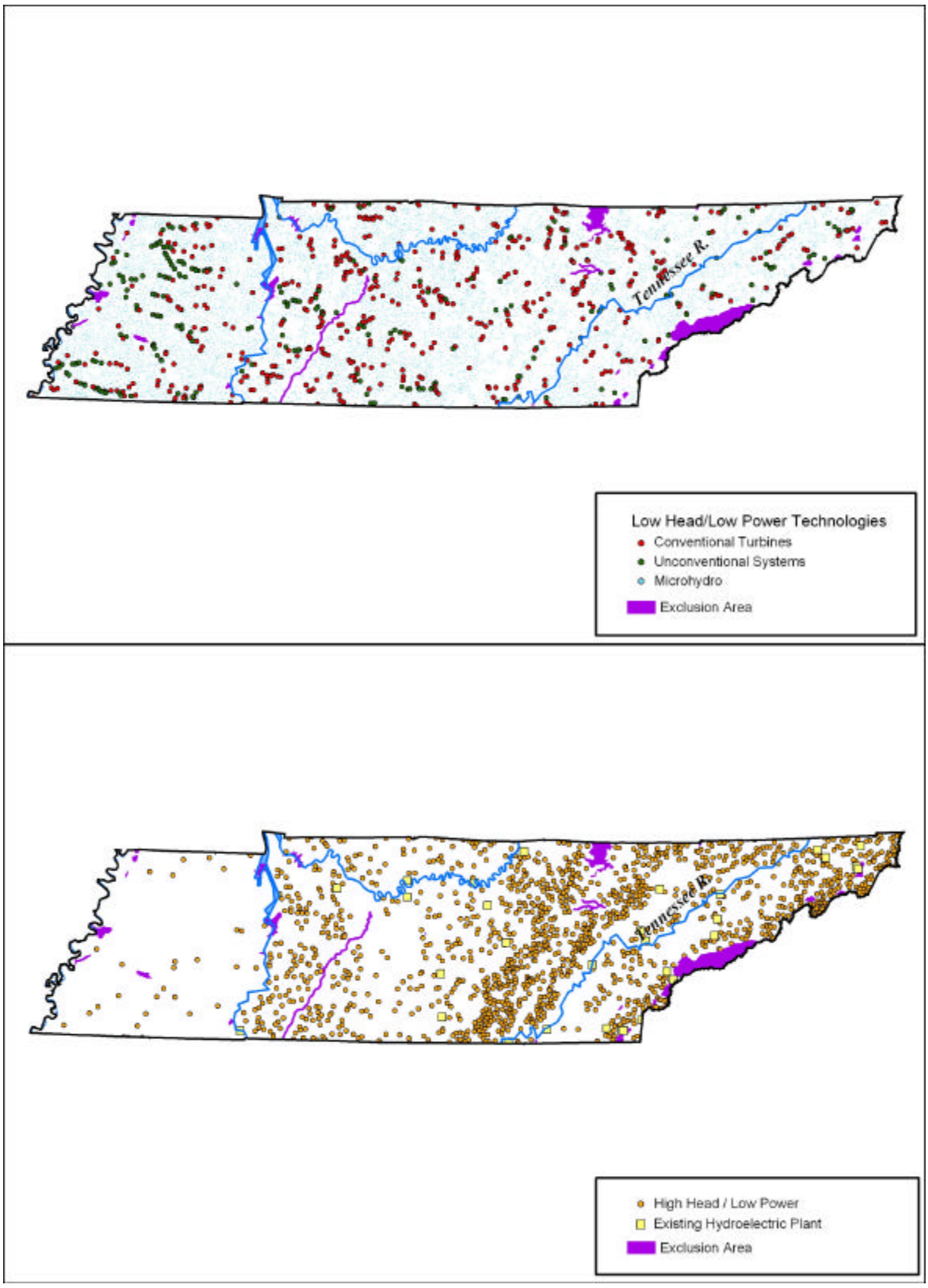


Figure B-210. Low head/low power and high head/low power water energy sites, and existing hydroelectric plants in Tennessee.

B.43 Texas

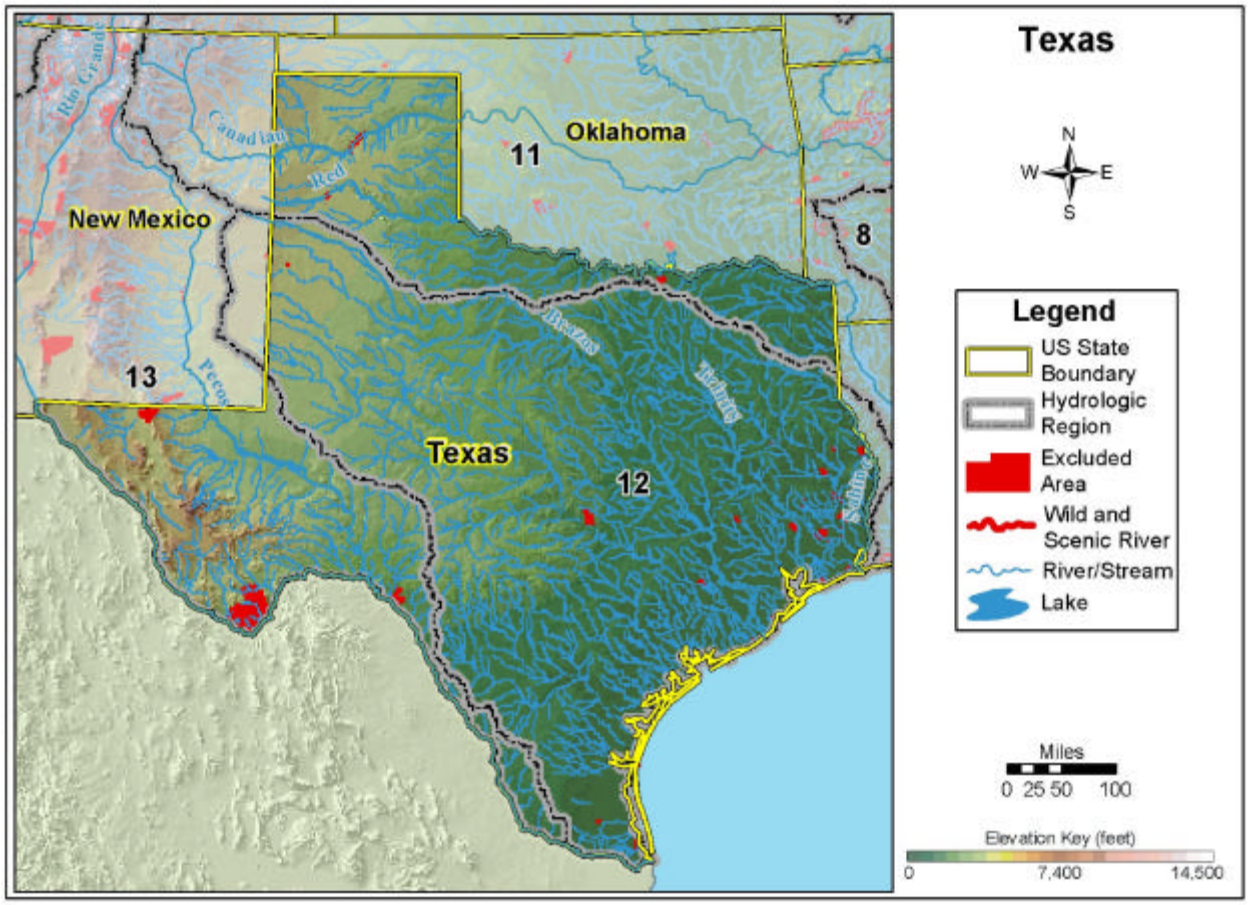


Figure B-211. Texas.

Table B-43. Summary of results of hydropower resource assessment of Texas.

Annual Mean Power (MW)	Total	Developed	Excluded	Available[a]
TOTAL POWER	**2,336**	**189**	**119**	**2,028**
TOTAL HIGH POWER	**627**	**183**	**83**	**361**
High Head/High Power	**273**	**178**	**33**	**62**
Low Head/High Power	**354**	**5**	**50**	**299**
TOTAL LOW POWER	**1,709**	**6**	**36**	**1,667**
High Head/Low Power	**248**	**1**	**5**	**242**
Low Head/Low Power	**1,461**	**5**	**31**	**1,425**
Conventional Turbine	452	5	9	438
Unconventional Systems	253	0	11	242
Microhydro	756	0	11	745

a. No feasibility or availability assessments have been performed. “Available" only indicates net potential after subtracting developed and excluded potentials from total potential.

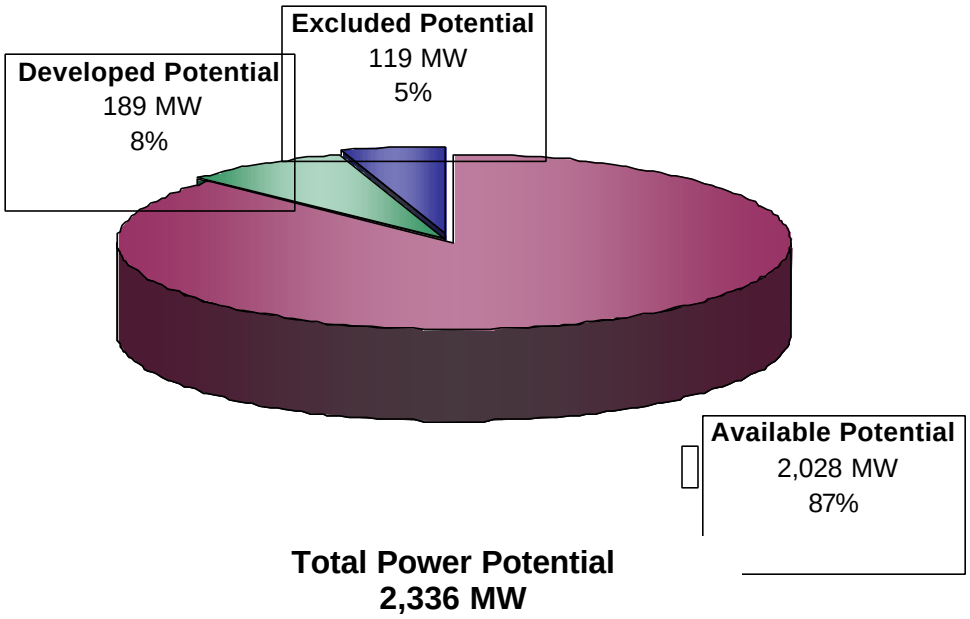


Figure B-212. Power category distribution of the total power potential (annual mean power) of water energy resources in Texas.

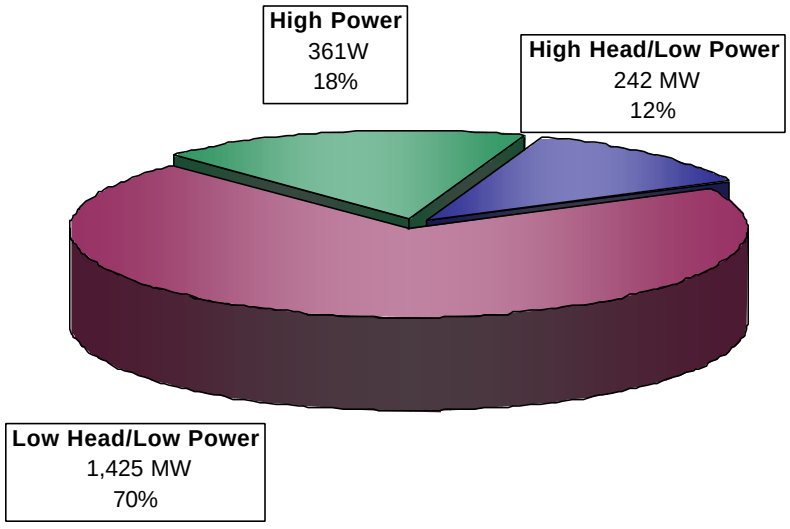


Figure B-213. Power class distribution of the available power potential (annual mean power) of water energy resources in Texas.

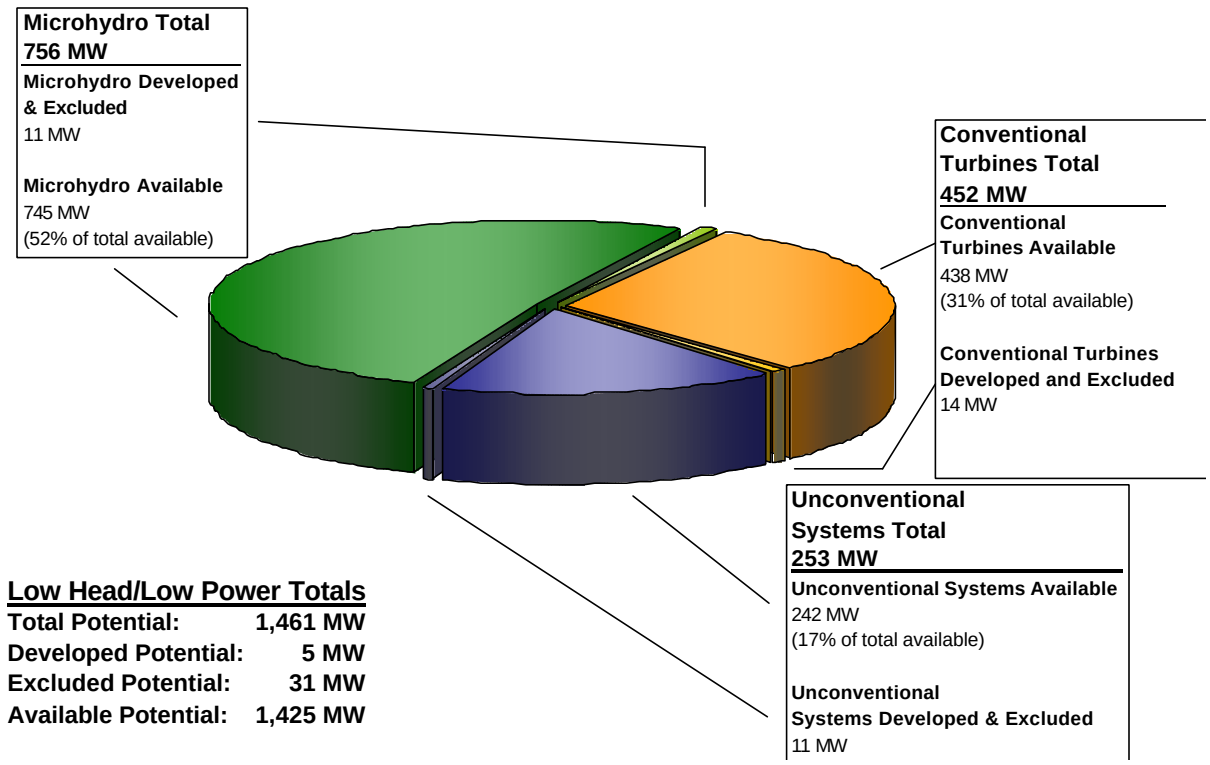


Figure B-214. Distribution of the low head/low power power potential (annual mean power) of water energy resources in Texas among three low head/low power hydropower technology classes.

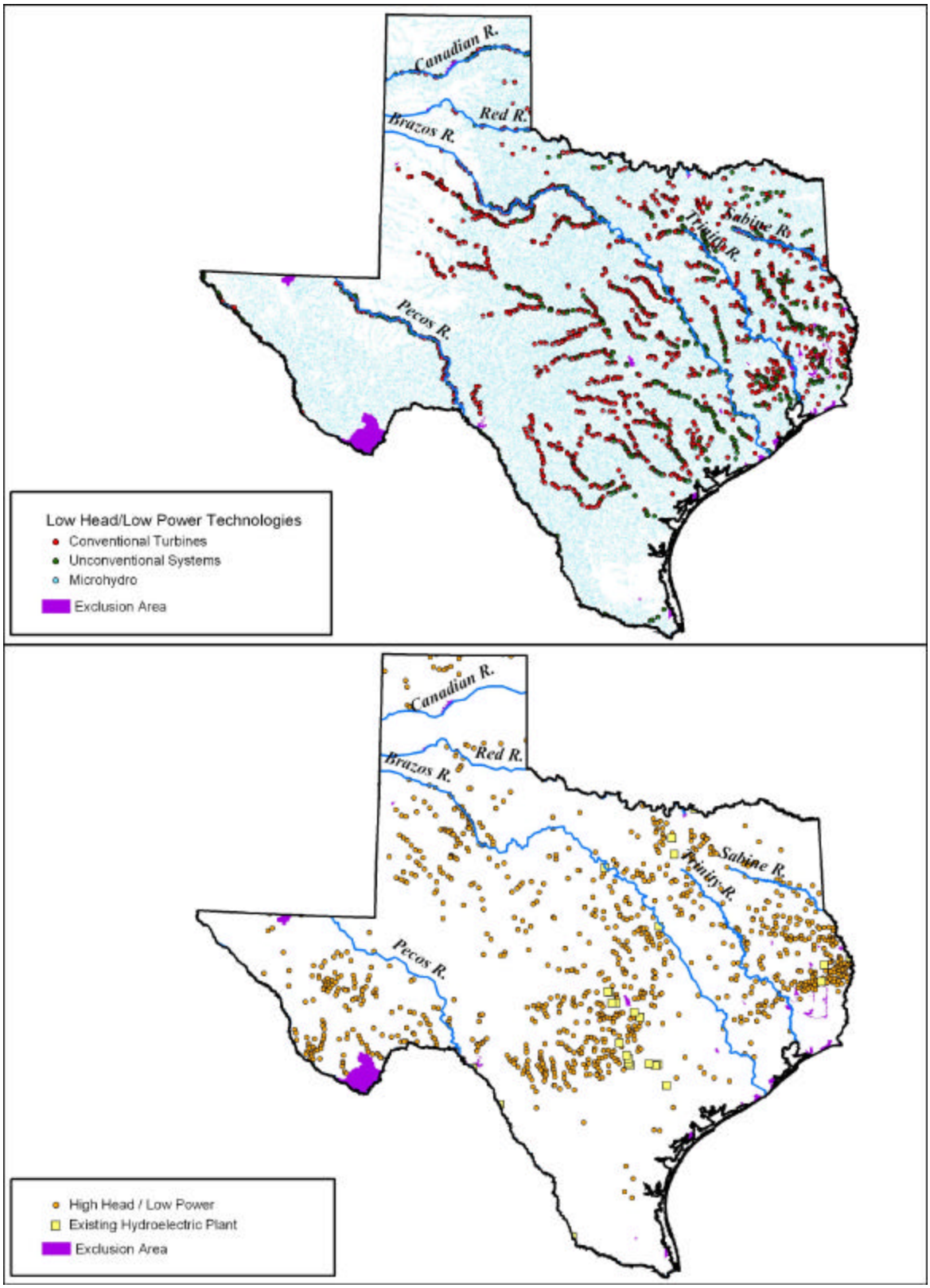


Figure B-215. Low head/low power and high head/low power water energy sites, and existing hydroelectric plants in Texas.

B.44 Utah

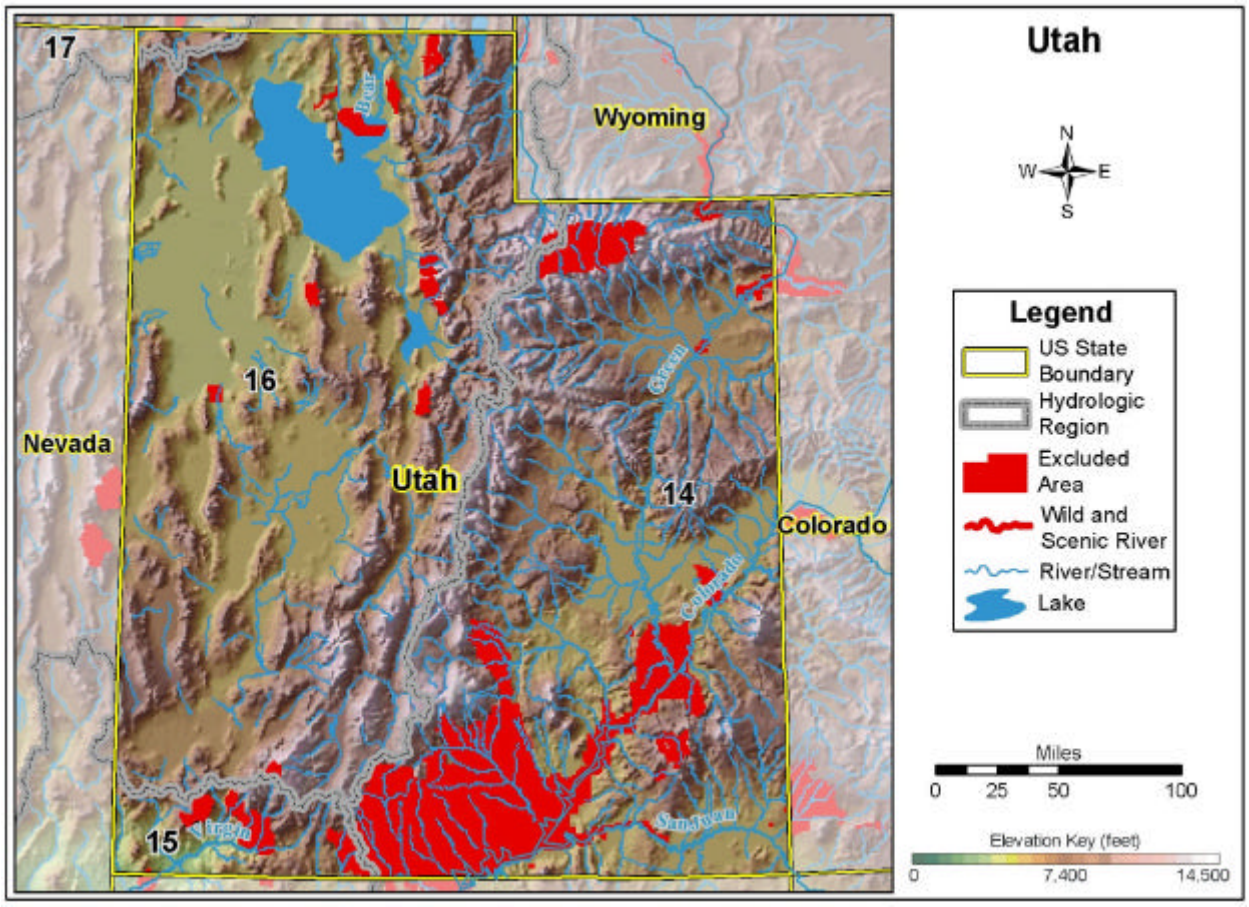


Figure B-216. Utah.

Table B-44. Summary of results of hydropower resource assessment of Utah.

Annual Mean Power (MW)	Total	Developed	Excluded	Available[a]
TOTAL POWER	**3,924**	**135**	**933**	**2,856**
TOTAL HIGH POWER	**2,385**	**117**	**755**	**1,513**
High Head/High Power	**1,777**	**117**	**556**	**1,104**
Low Head/High Power	**608**	**0**	**199**	**409**
TOTAL LOW POWER	**1,539**	**18**	**178**	**1,343**
High Head/Low Power	**1,126**	**17**	**139**	**970**
Low Head/Low Power	**413**	**1**	**39**	**373**
Conventional Turbine	92	1	4	87
Unconventional Systems	37	0	5	32
Microhydro	284	0	30	254

a. No feasibility or availability assessments have been performed. “Available" only indicates net potential after subtracting developed and excluded potentials from total potential.

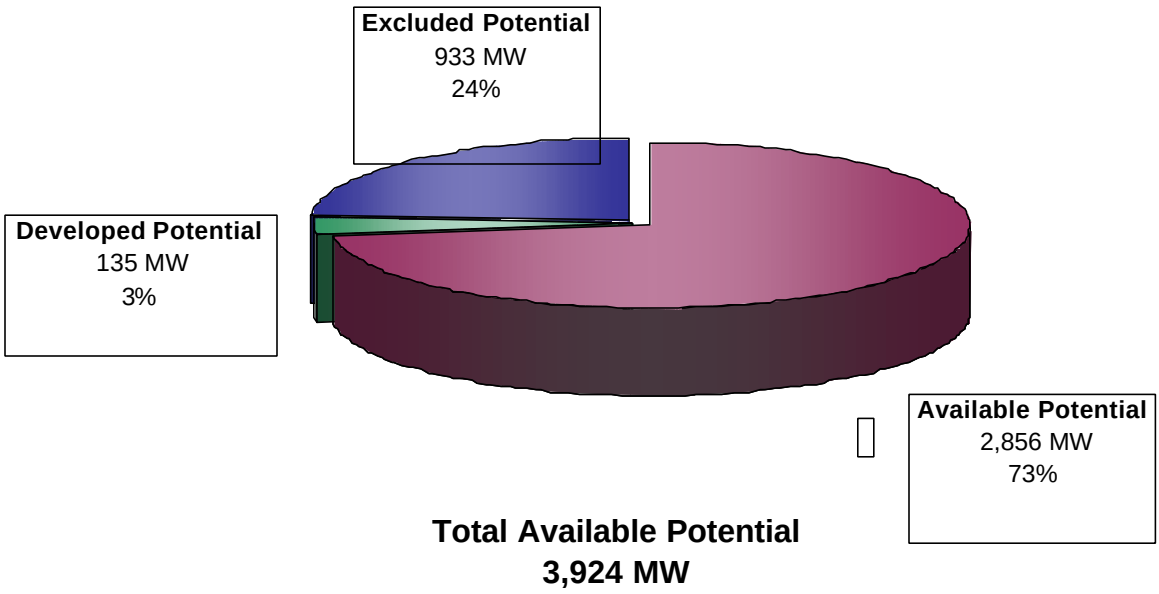


Figure B-217. Power category distribution of the total power potential (annual mean power) of water energy resources in Utah.

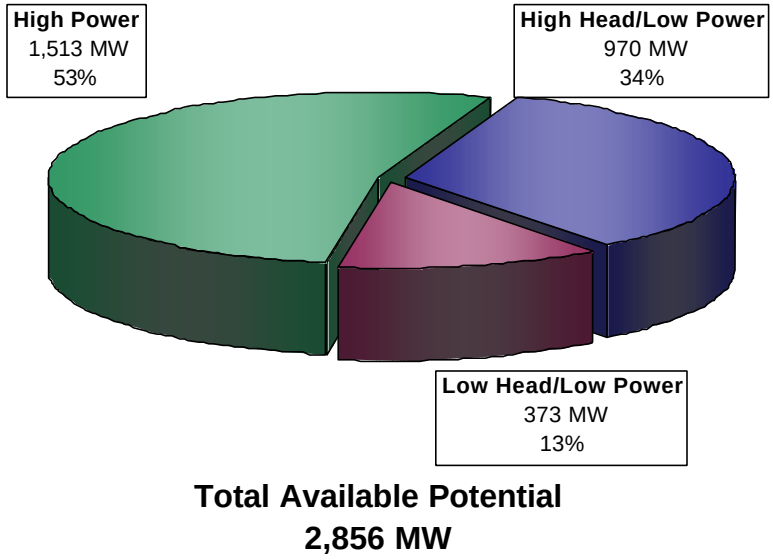


Figure B-218. Power class distribution of the available power potential (annual mean power) of water energy resources in Utah.

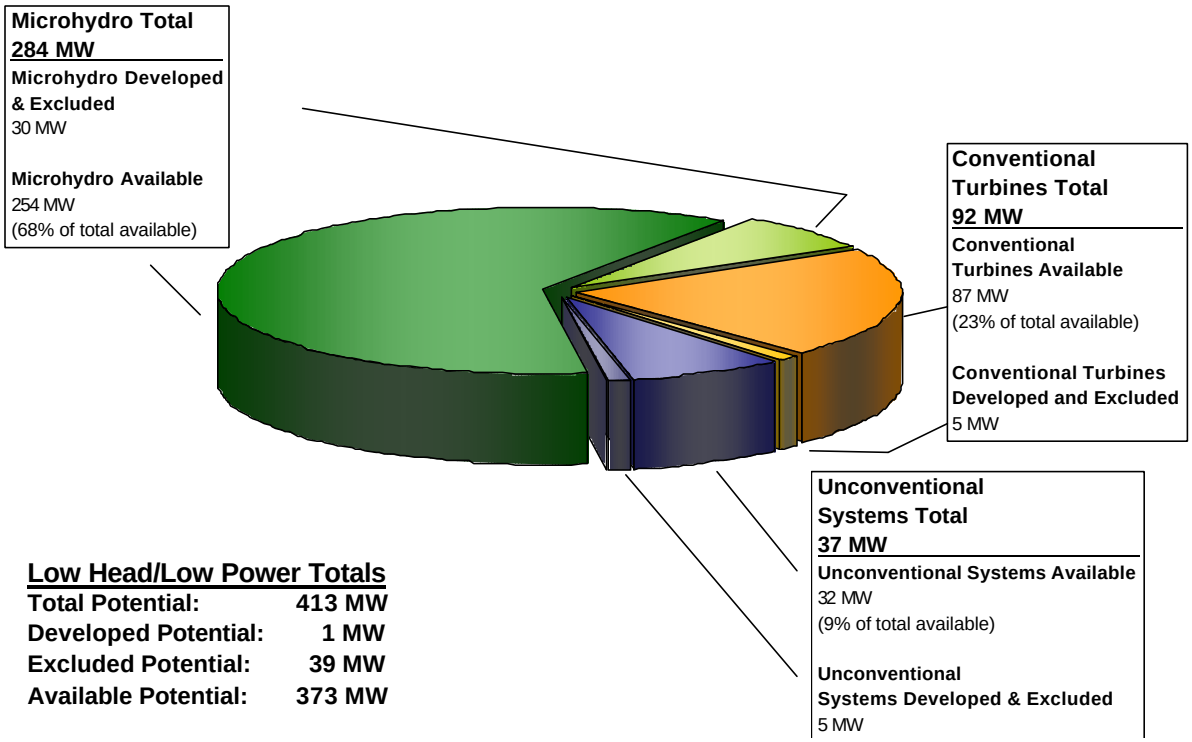


Figure B-219. Distribution of the low head/low power power potential (annual mean power) of water energy resources in Utah among three low head/low power hydropower technology classes.

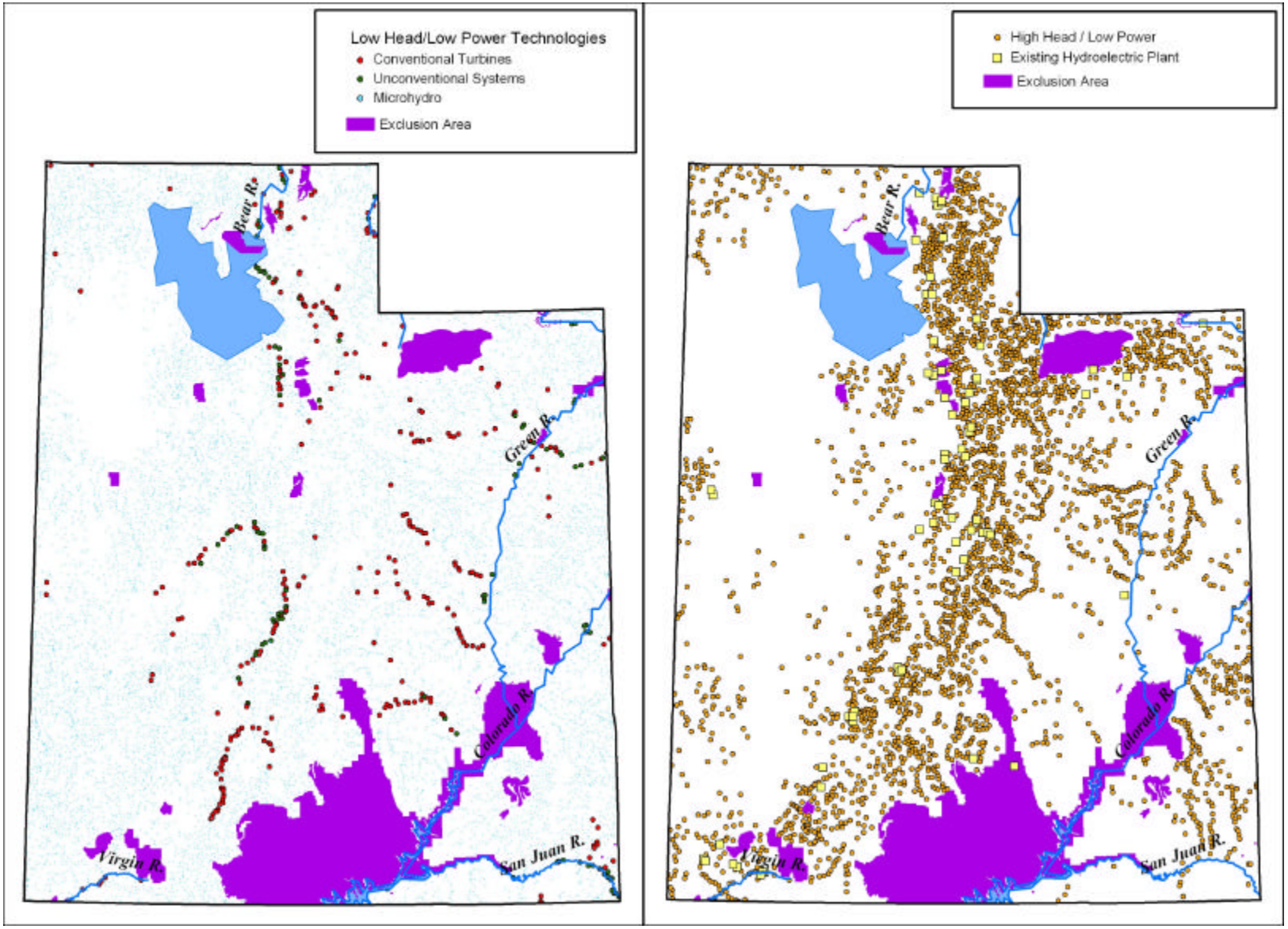


Figure B-220. Low head/low power and high head/low power water energy sites, and existing hydroelectric plants in Utah.

B.45 Vermont

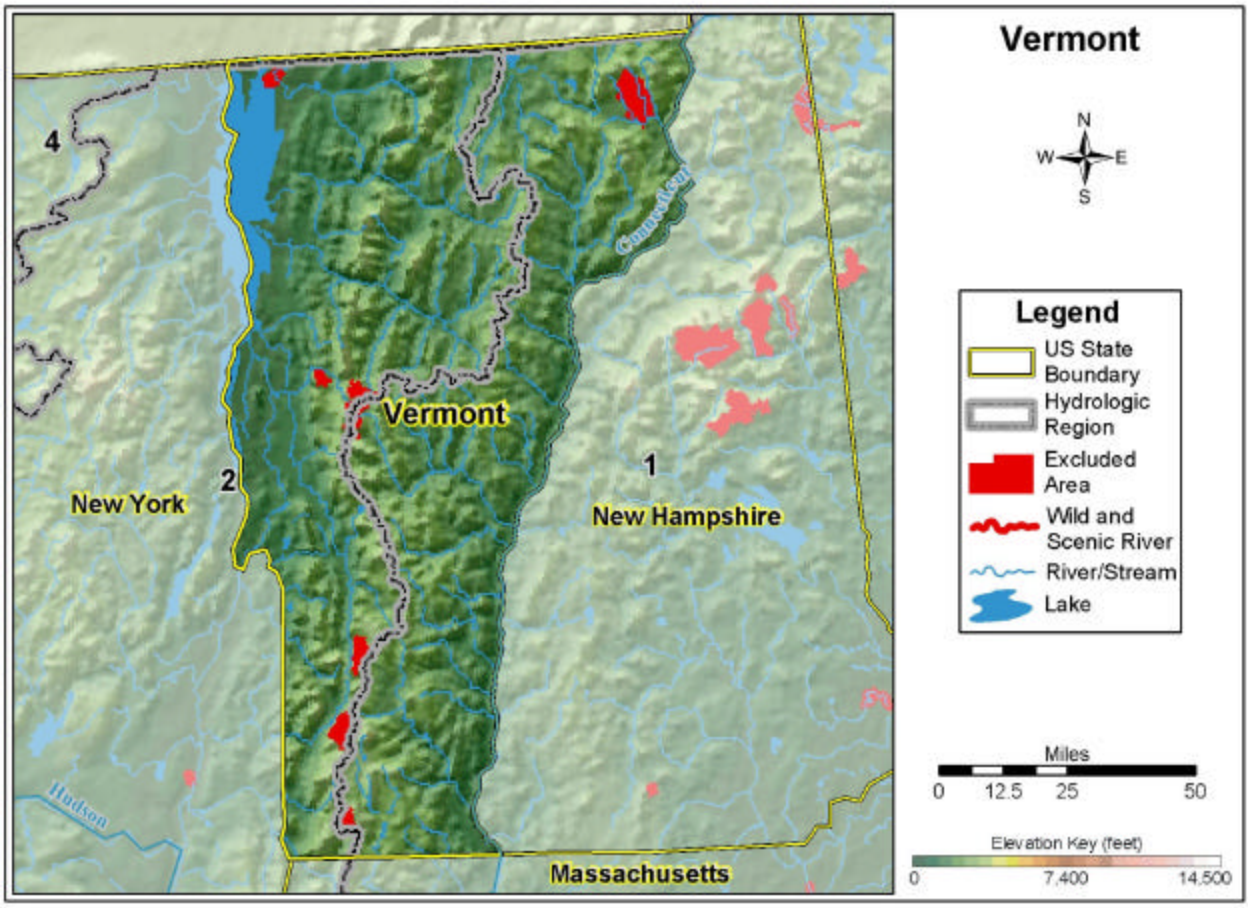


Figure B-221. Vermont.

Table B-45. Summary of results of hydropower resource assessment of Vermont.

Annual Mean Power (MW)	Total	Developed	Excluded	Available[a]
TOTAL POWER	**1,144**	**128**	**49**	**967**
TOTAL HIGH POWER	**682**	**110**	**34**	**538**
High Head/High Power	**533**	**107**	**33**	**393**
Low Head/High Power	**149**	**3**	**1**	**145**
TOTAL LOW POWER	**462**	**18**	**15**	**429**
High Head/Low Power	**372**	**13**	**14**	**345**
Low Head/Low Power	**90**	**5**	**1**	**84**
Conventional Turbine	40	4	0	36
Unconventional Systems	15	0	0	15
Microhydro	35	1	1	33

a. No feasibility or availability assessments have been performed. "Available" only indicates net potential after subtracting developed and excluded potentials from total potential.

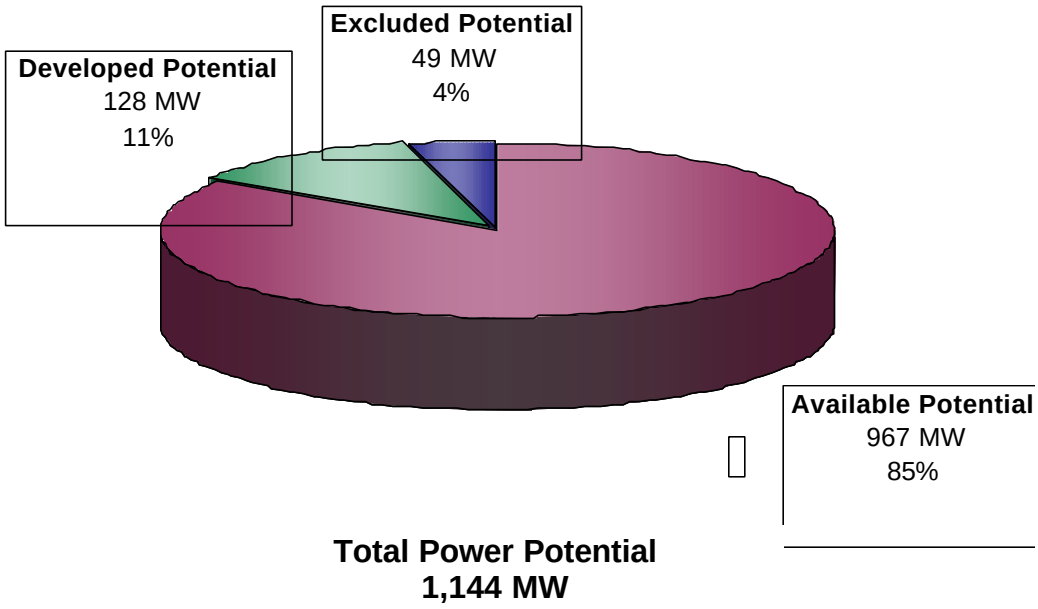


Figure B-222. Power category distribution of the total power potential (annual mean power) of water energy resources in Vermont.

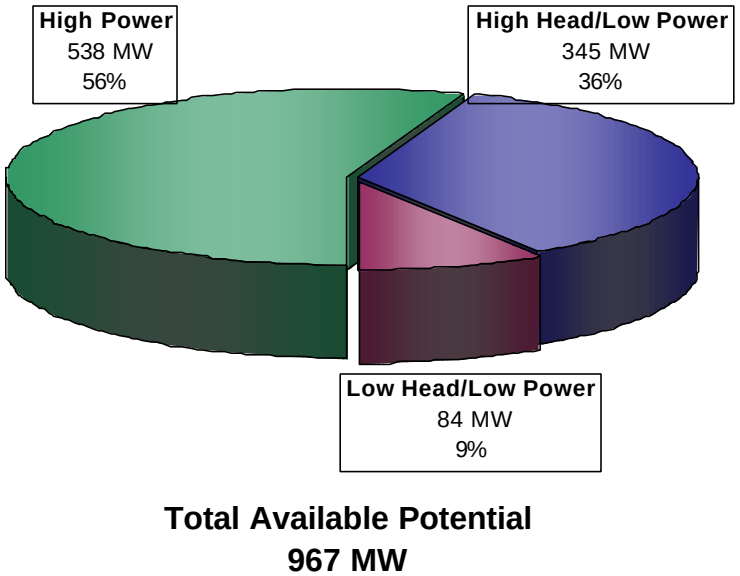


Figure B-223. Power class distribution of the available power potential (annual mean power) of water energy resources in Vermont.

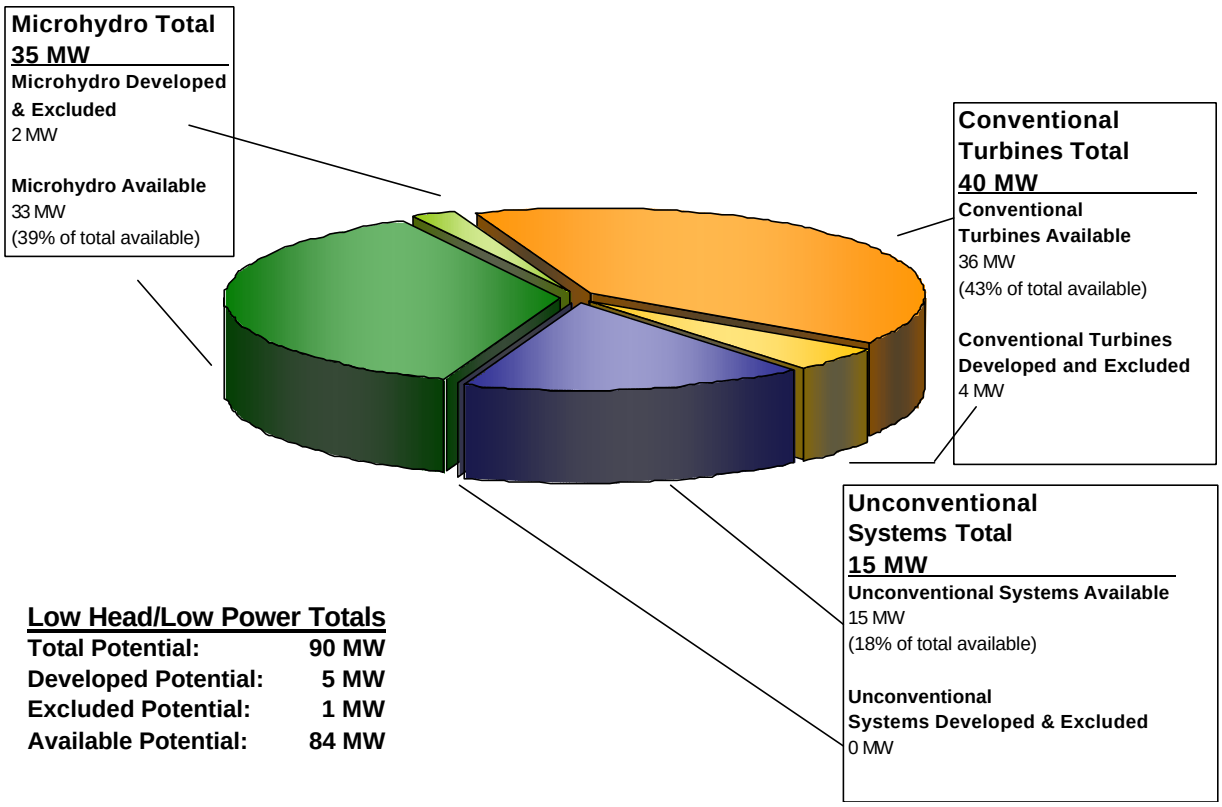


Figure B-224. Distribution of the low head/low power power potential (annual mean power) of water energy resources in Vermont among three low head/low power hydropower technology classes.

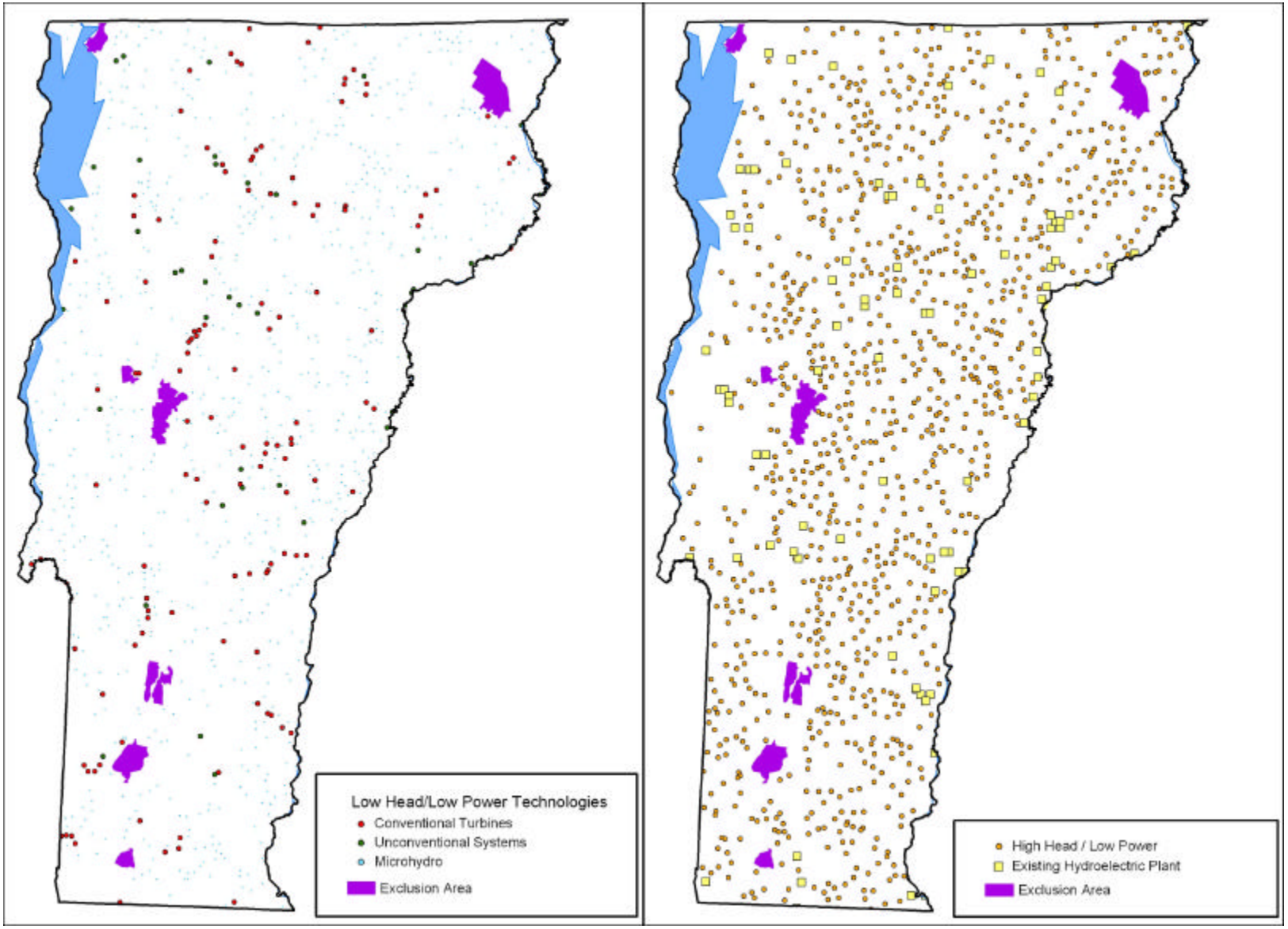


Figure B-225. Low head/low power and high head/low power water energy sites, and existing hydroelectric plants in Vermont.

B.46 Virginia

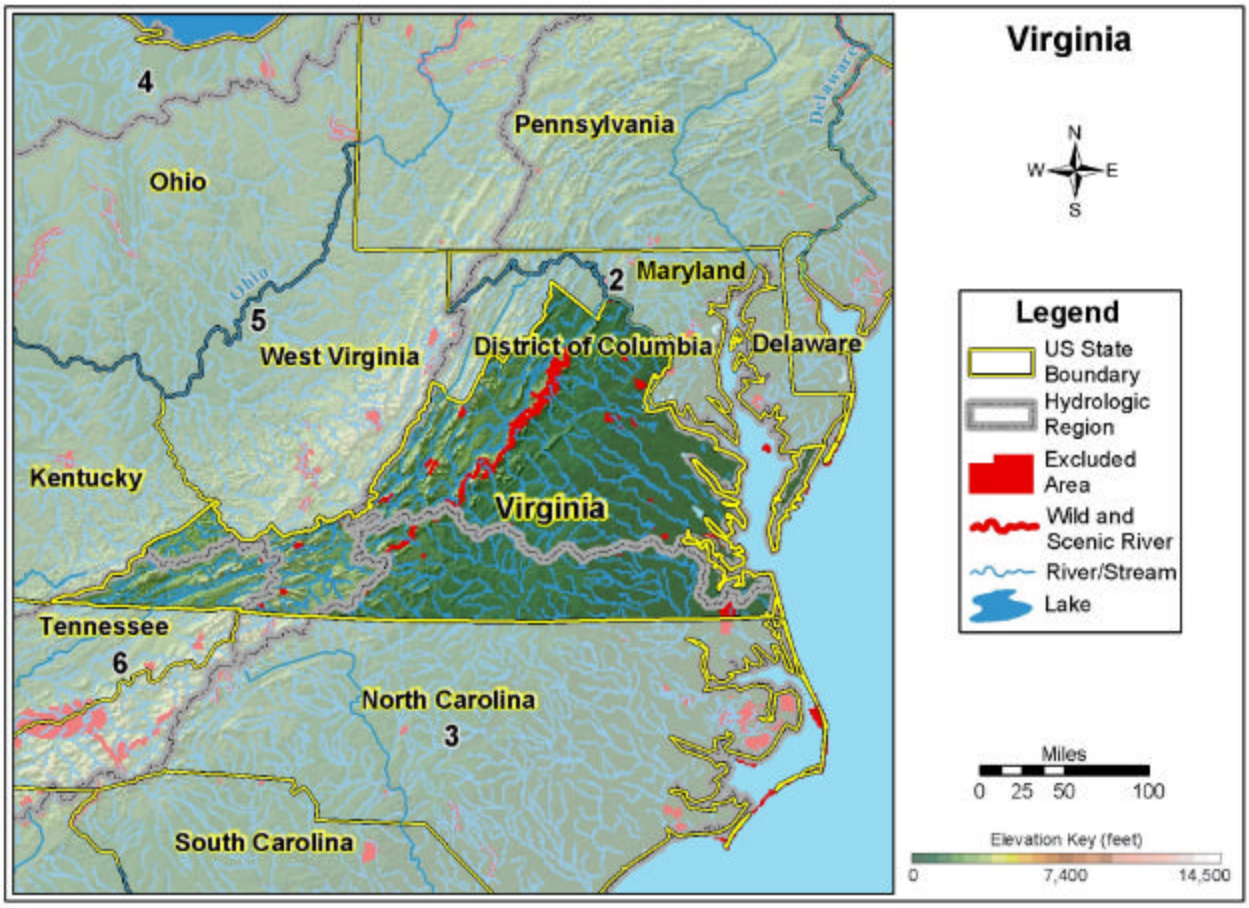


Figure B-226. Virginia.

Table B-46. Summary of results of hydropower resource assessment of Virginia.

Annual Mean Power (MW)	Total	Developed	Excluded	Available[a]
TOTAL POWER	**2,220**	**147**	**194**	**1,879**
TOTAL HIGH POWER	**1,375**	**137**	**118**	**1,120**
High Head/High Power	**847**	**131**	**65**	**651**
Low Head/High Power	**528**	**6**	**53**	**469**
TOTAL LOW POWER	**845**	**10**	**76**	**759**
High Head/Low Power	**478**	**4**	**64**	**410**
Low Head/Low Power	**367**	**6**	**12**	**349**
Conventional Turbine	135	6	2	127
Unconventional Systems	50	0	1	49
Microhydro	182	0	9	173

a. No feasibility or availability assessments have been performed. “Available" only indicates net potential after subtracting developed and excluded potentials from total potential.

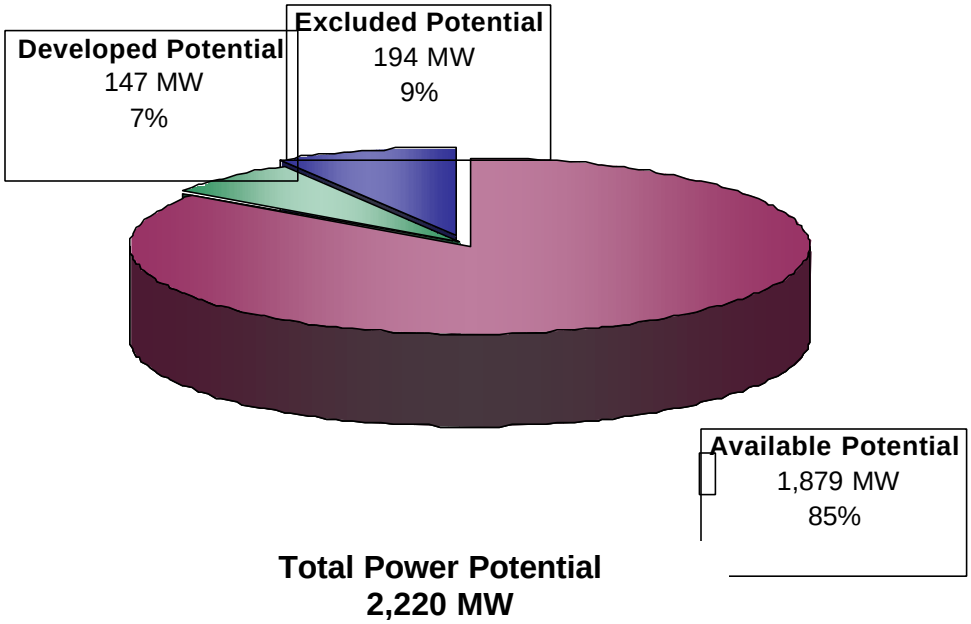


Figure B-227. Power category distribution of the total power potential (annual mean power) of water energy resources in Virginia.

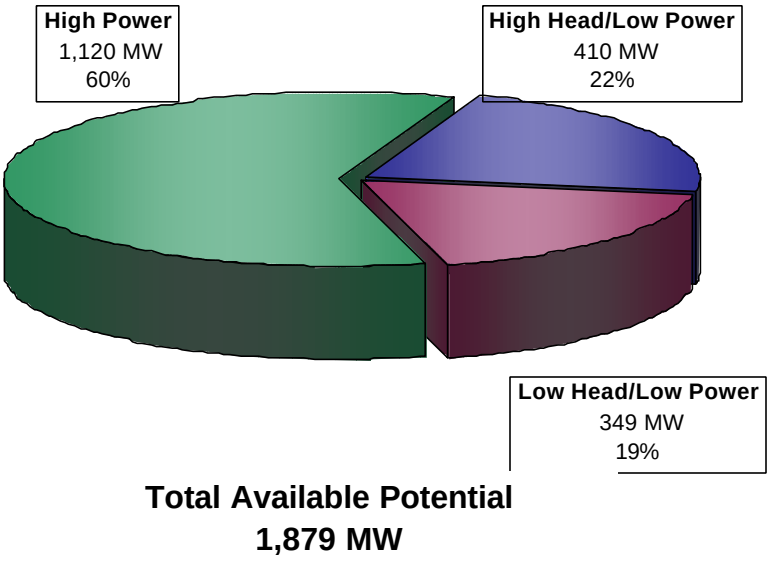


Figure B-228. Power class distribution of the available power potential (annual mean power) of water energy resources in Virginia.

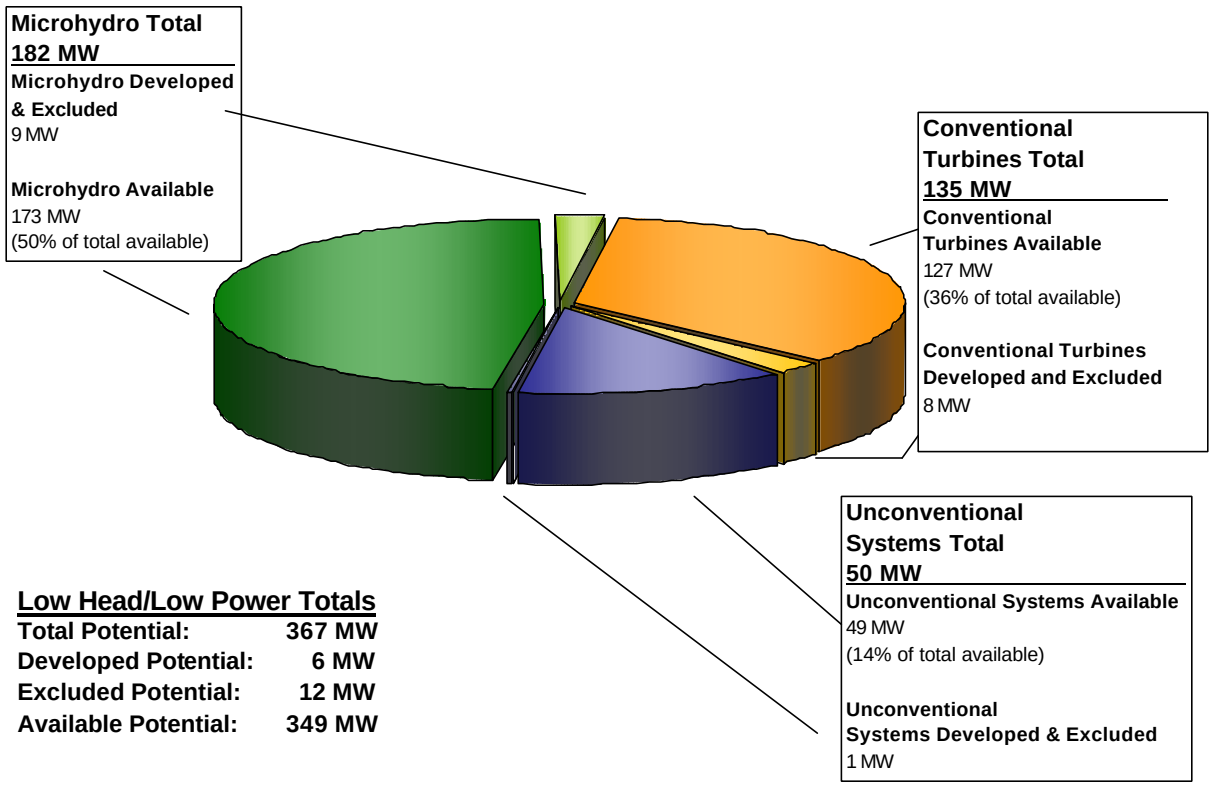


Figure B-229. Distribution of the low head/low power power potential (annual mean power) of water energy resources in Virginia among three low head/low power hydropower technology classes.

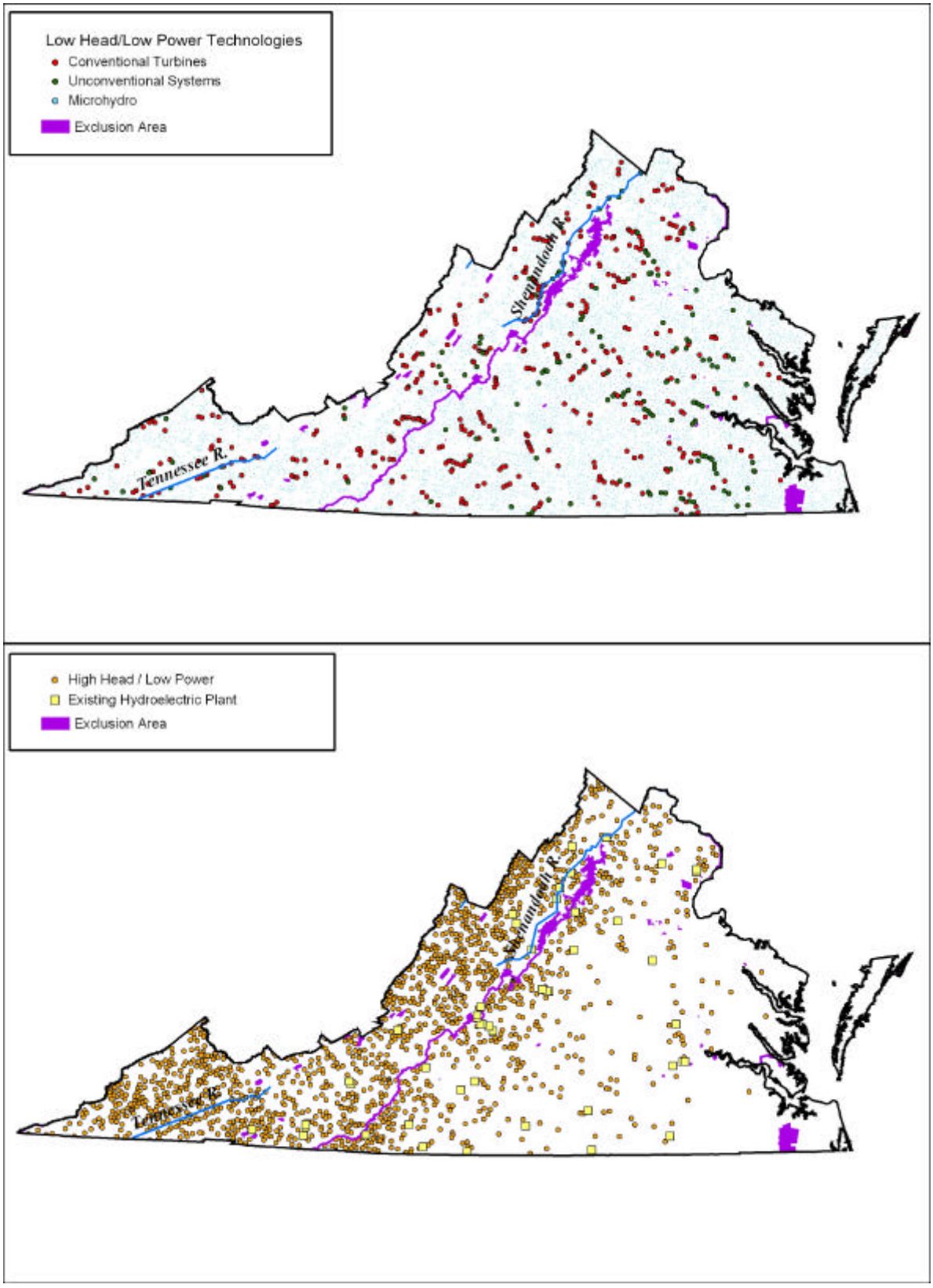


Figure B-230. Low head/low power and high head/low power water energy sites, and existing hydroelectric plants in Virginia.

B.47 Washington

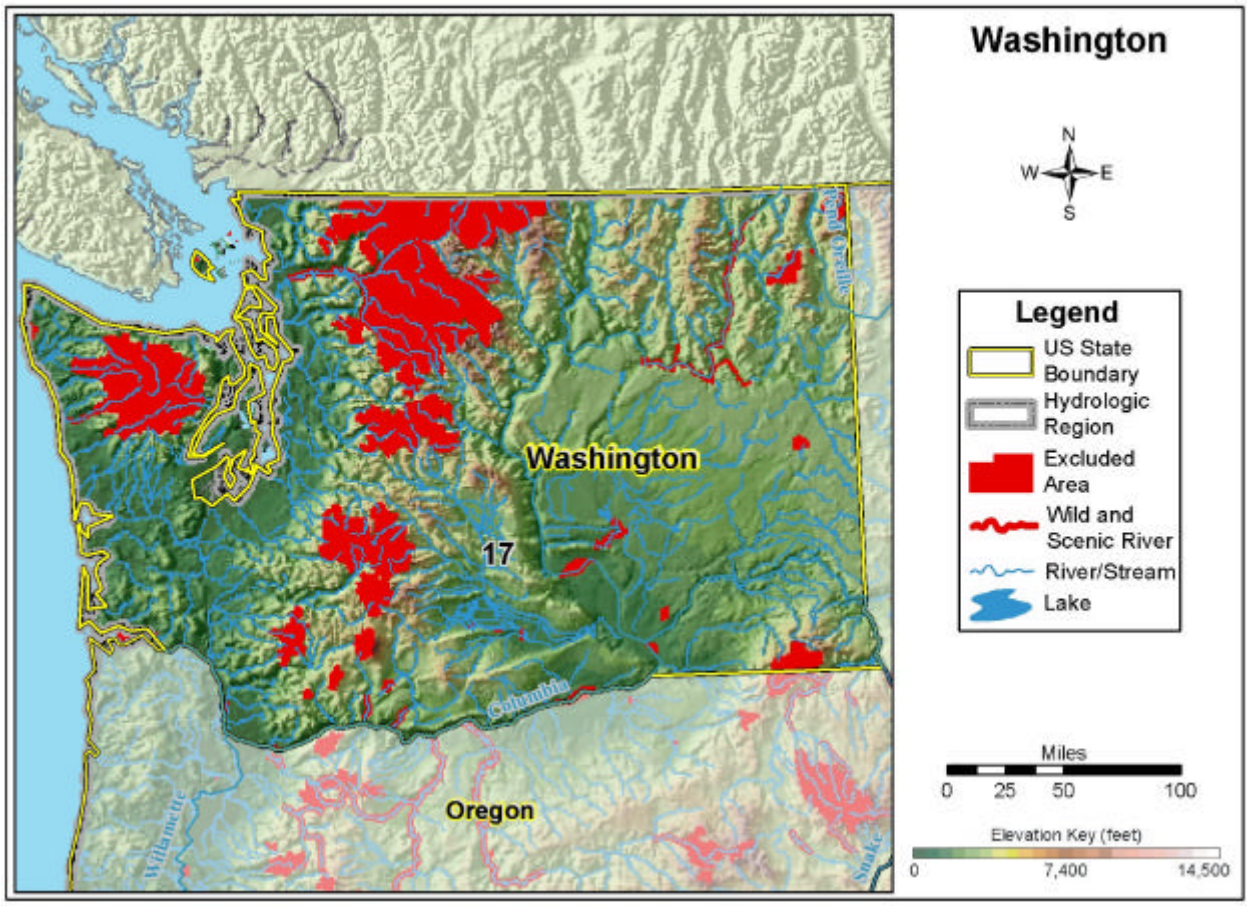


Figure B-231. Washington.

Table B-47. Summary of results of hydropower resource assessment of Washington.

Annual Mean Power (MW)	Total	Developed	Excluded	Available[a]
TOTAL POWER	**30,803**	**11,470**	**6,893**	**12,440**
TOTAL HIGH POWER	**28,676**	**11,460**	**6,571**	**10,645**
High Head/High Power	**25,969**	**11,460**	**5,901**	**8,608**
Low Head/High Power	**2,707**	**0**	**670**	**2,037**
TOTAL LOW POWER	**2,127**	**10**	**322**	**1,795**
High Head/Low Power	**1,691**	**10**	**296**	**1,385**
Low Head/Low Power	**436**	**0**	**26**	**410**
Conventional Turbine	149	0	11	138
Unconventional Systems	80	0	6	74
Microhydro	207	0	9	198

a. No feasibility or availability assessments have been performed. “Available" only indicates net potential after subtracting developed and excluded potentials from total potential.

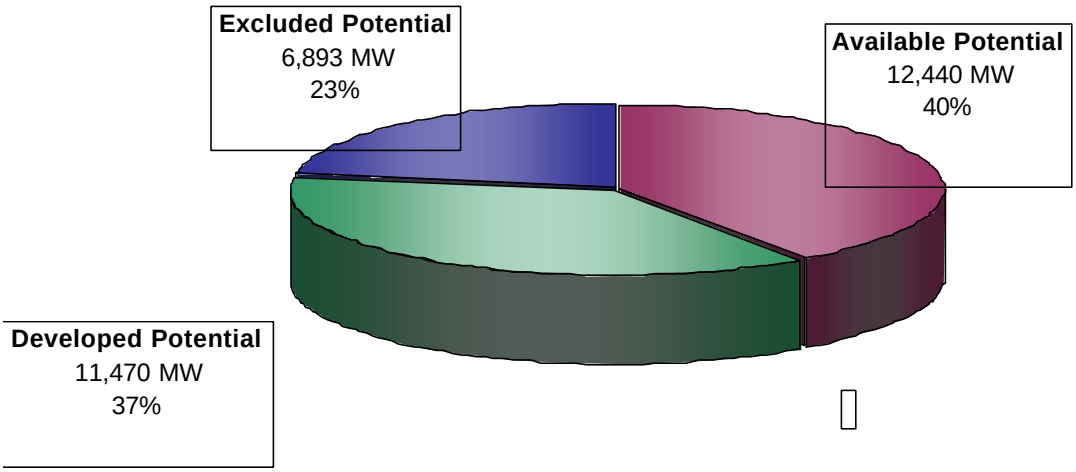


Figure B-232. Power category distribution of the total power potential (annual mean power) of water energy resources in Washington.

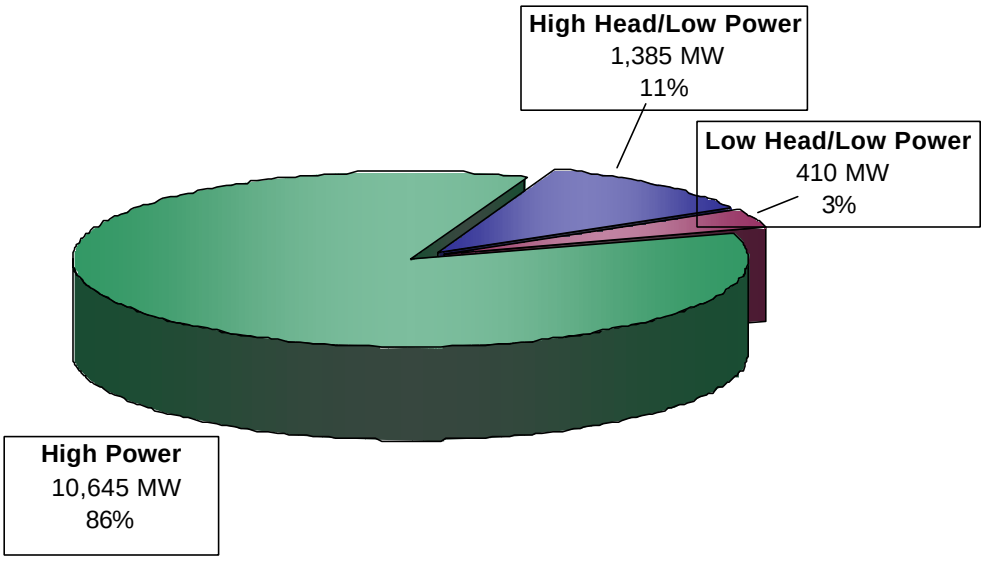


Figure B-233. Power class distribution of the available power potential (annual mean power) of water energy resources in Washington.

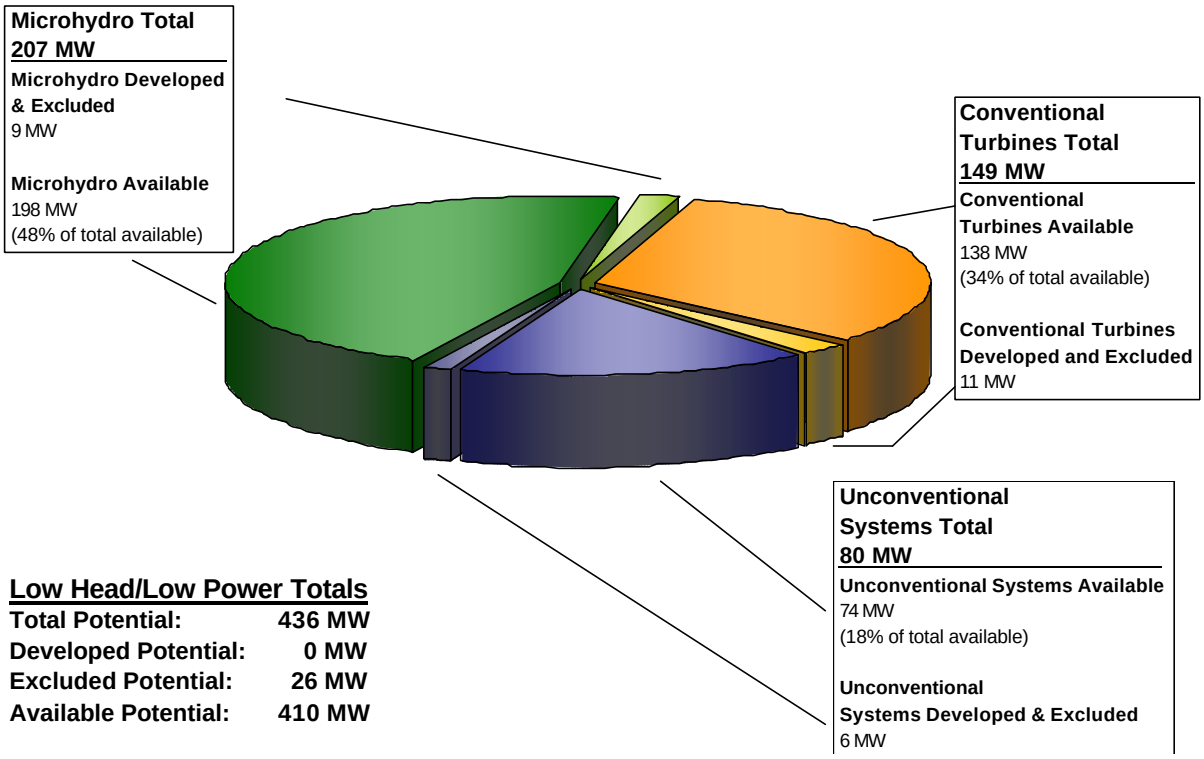


Figure B-234. Distribution of the low head/low power power potential (annual mean power) of water energy resources in Washington among three low head/low power hydropower technology classes.

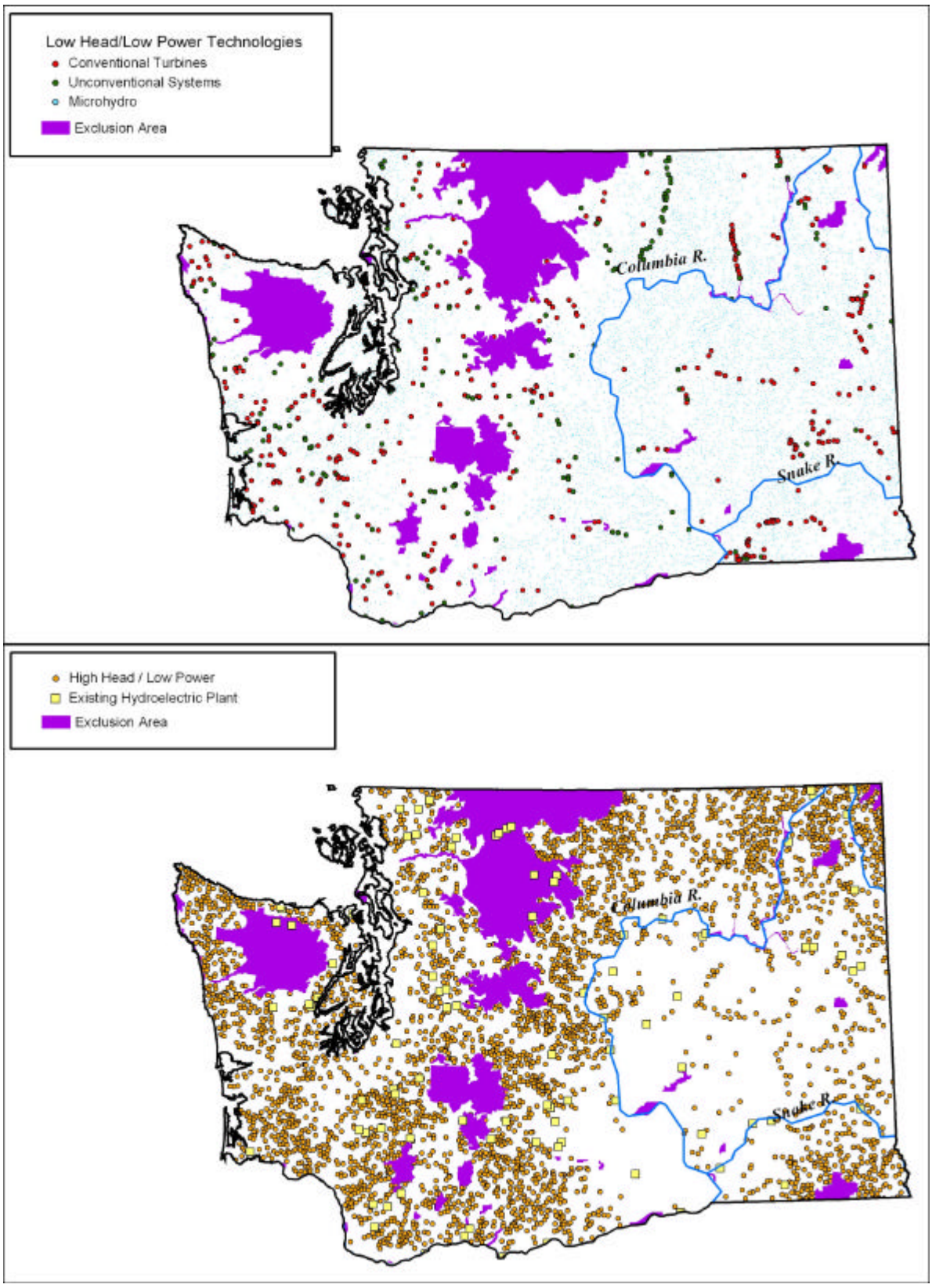


Figure B-235. Low head/low power and high head/low power water energy sites, and existing hydroelectric plants in Washington.

B.48 West Virginia

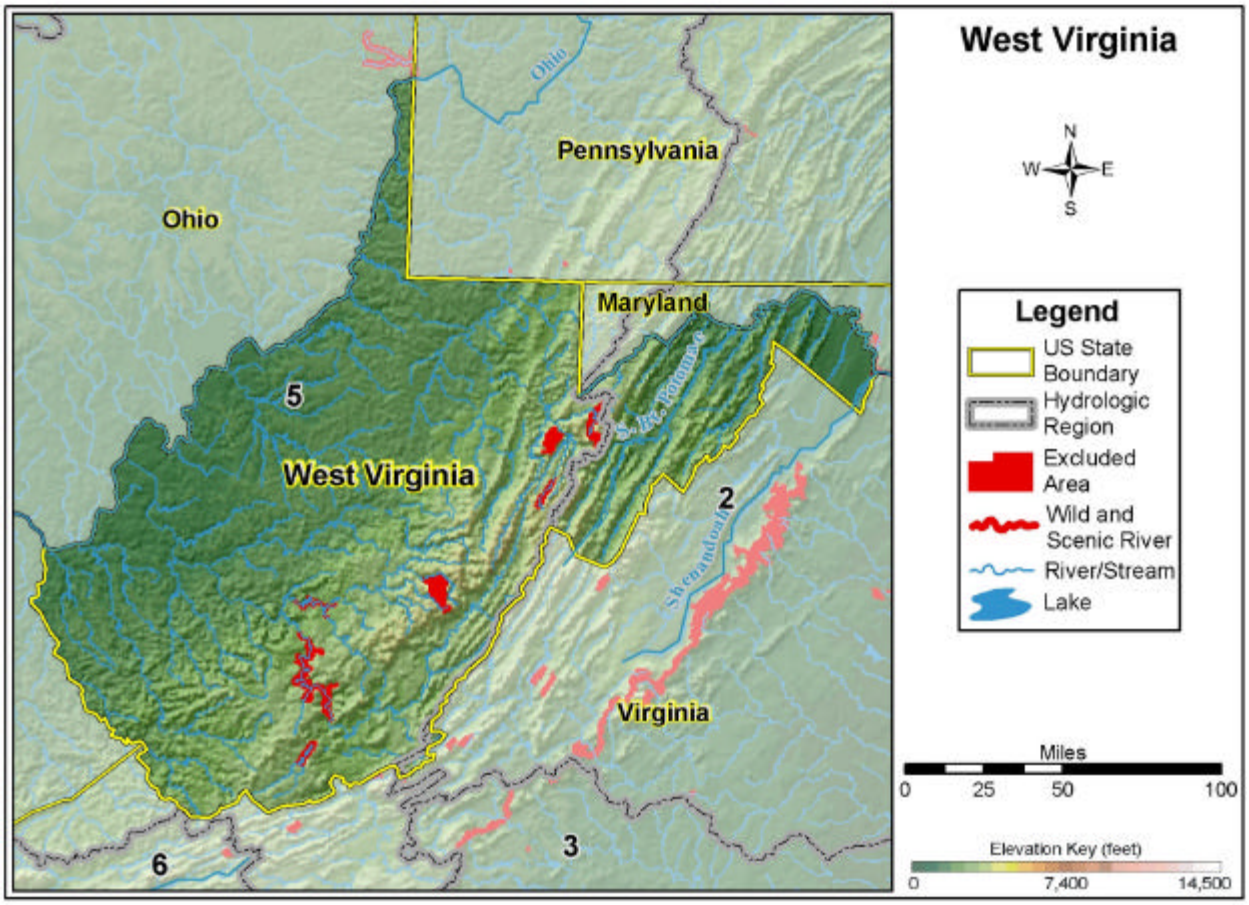


Figure B-236. West Virginia.

Table B-48. Summary of results of hydropower resource assessment of West Virginia.

Annual Mean Power (MW)	Total	Developed	Excluded	Available[a]
TOTAL POWER	**3,427**	**140**	**753**	**2,534**
TOTAL HIGH POWER	**2,703**	**139**	**716**	**1,848**
High Head/High Power	**1,832**	**76**	**597**	**1,159**
Low Head/High Power	**871**	**63**	**119**	**689**
TOTAL LOW POWER	**724**	**1**	**37**	**686**
High Head/Low Power	**484**	**0**	**32**	**452**
Low Head/Low Power	**240**	**1**	**5**	**234**
Conventional Turbine	85	1	2	82
Unconventional Systems	33	0	0	33
Microhydro	122	0	3	119

a. No feasibility or availability assessments have been performed. "Available" only indicates net potential after subtracting developed and excluded potentials from total potential.

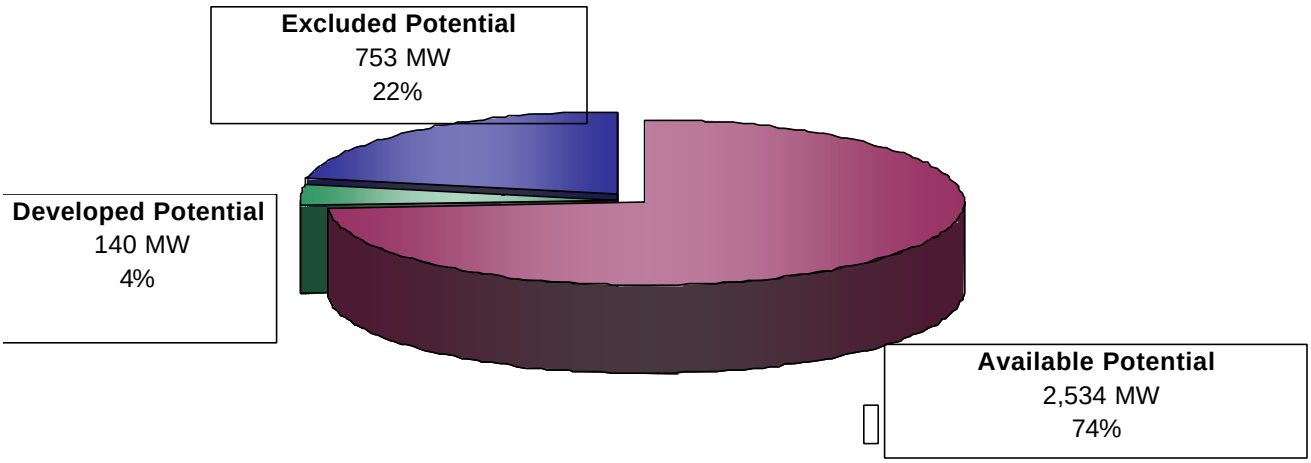


Figure B-237. Power category distribution of the total power potential (annual mean power) of water energy resources in West Virginia.

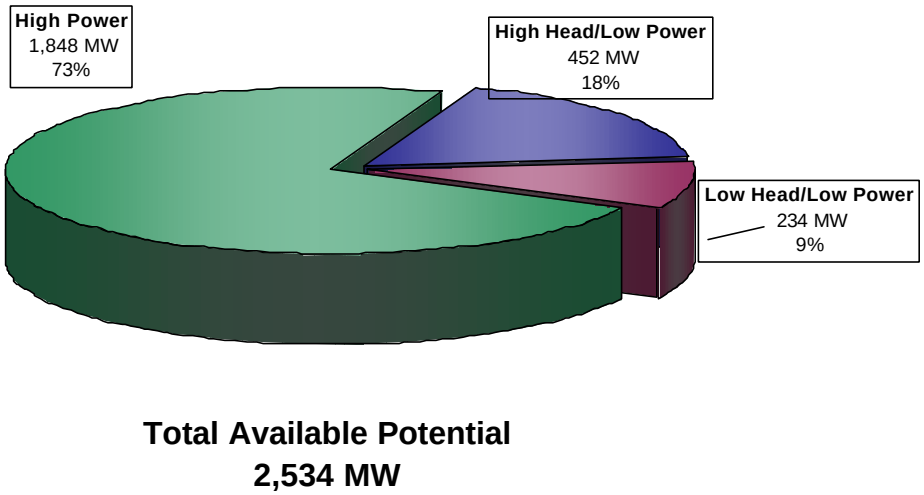


Figure B-238. Power class distribution of the available power potential (annual mean power) of water energy resources in West Virginia.

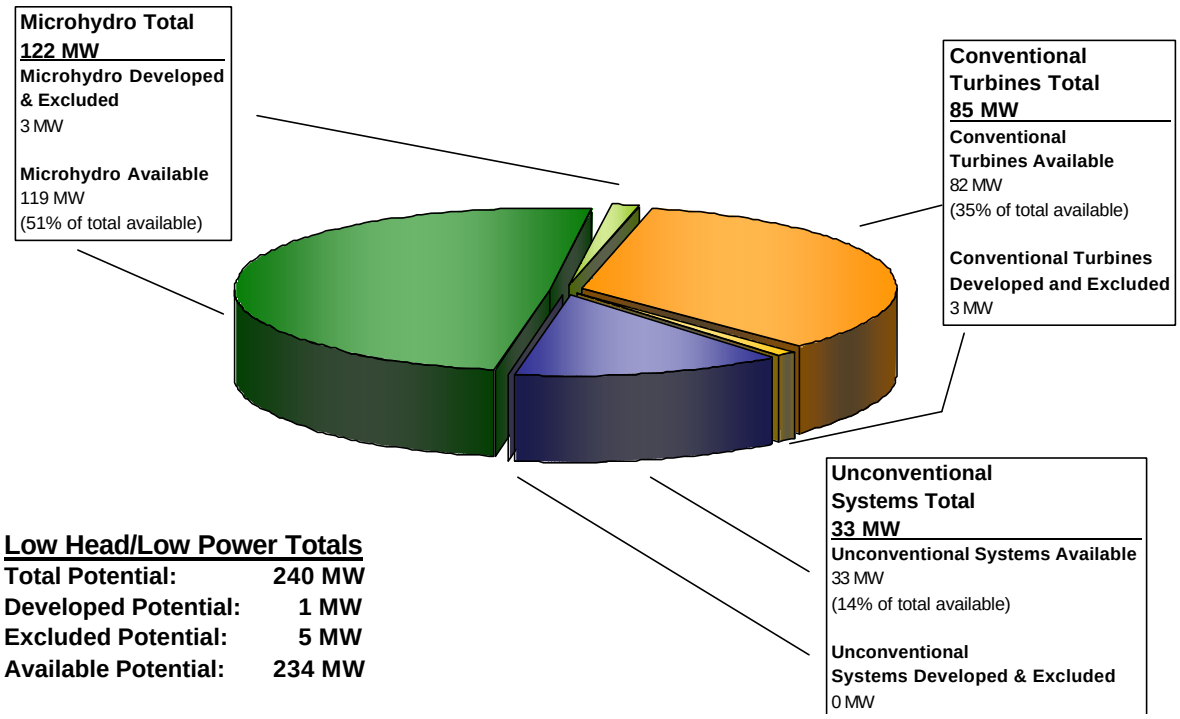


Figure B-239. Distribution of the low head/low power power potential (annual mean power) of water energy resources in West Virginia among three low head/low power hydropower technology classes.

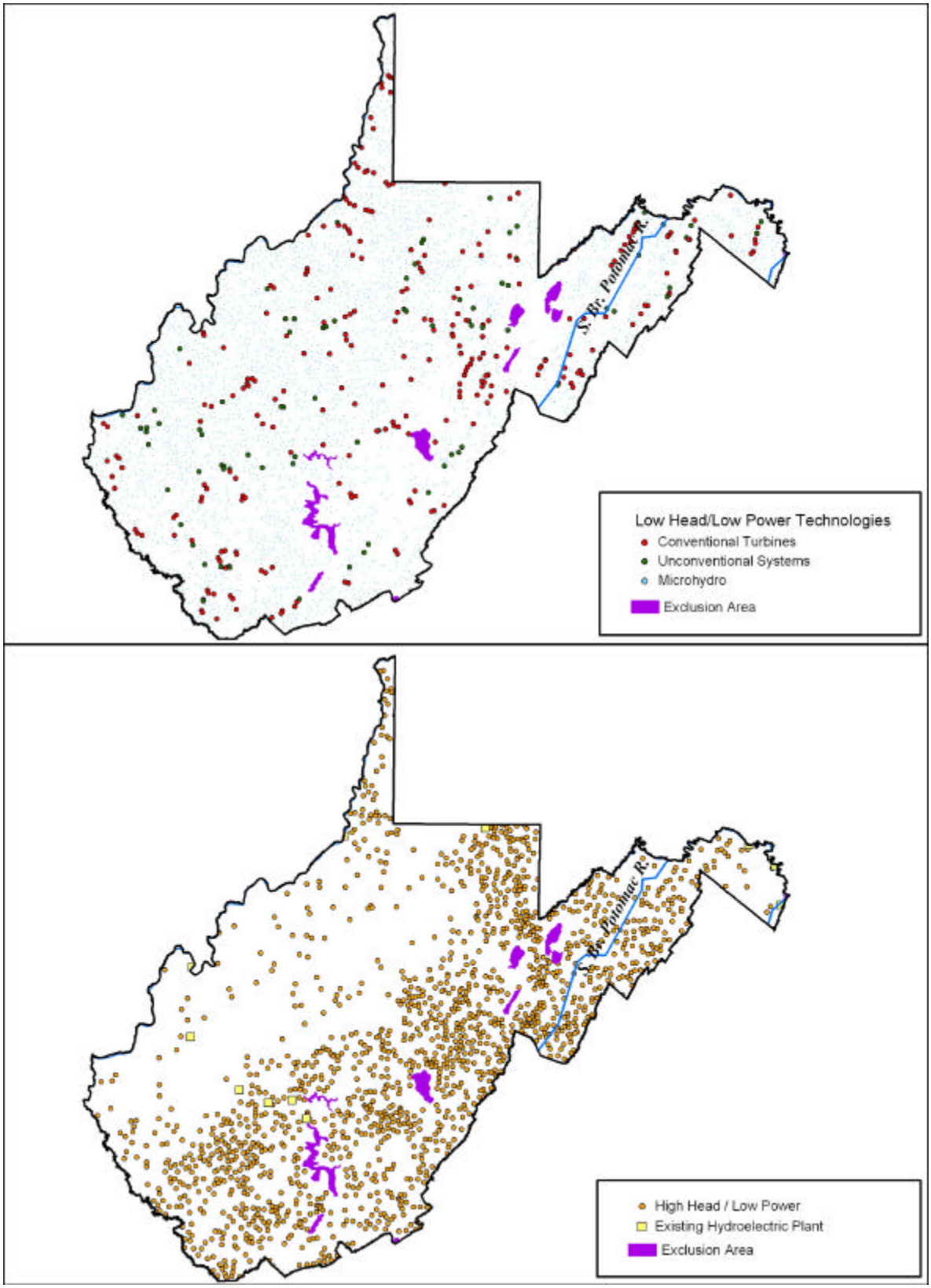


Figure B-240. Low head/low power and high head/low power water energy sites, and existing hydroelectric plants in West Virginia.

B.49 Wisconsin

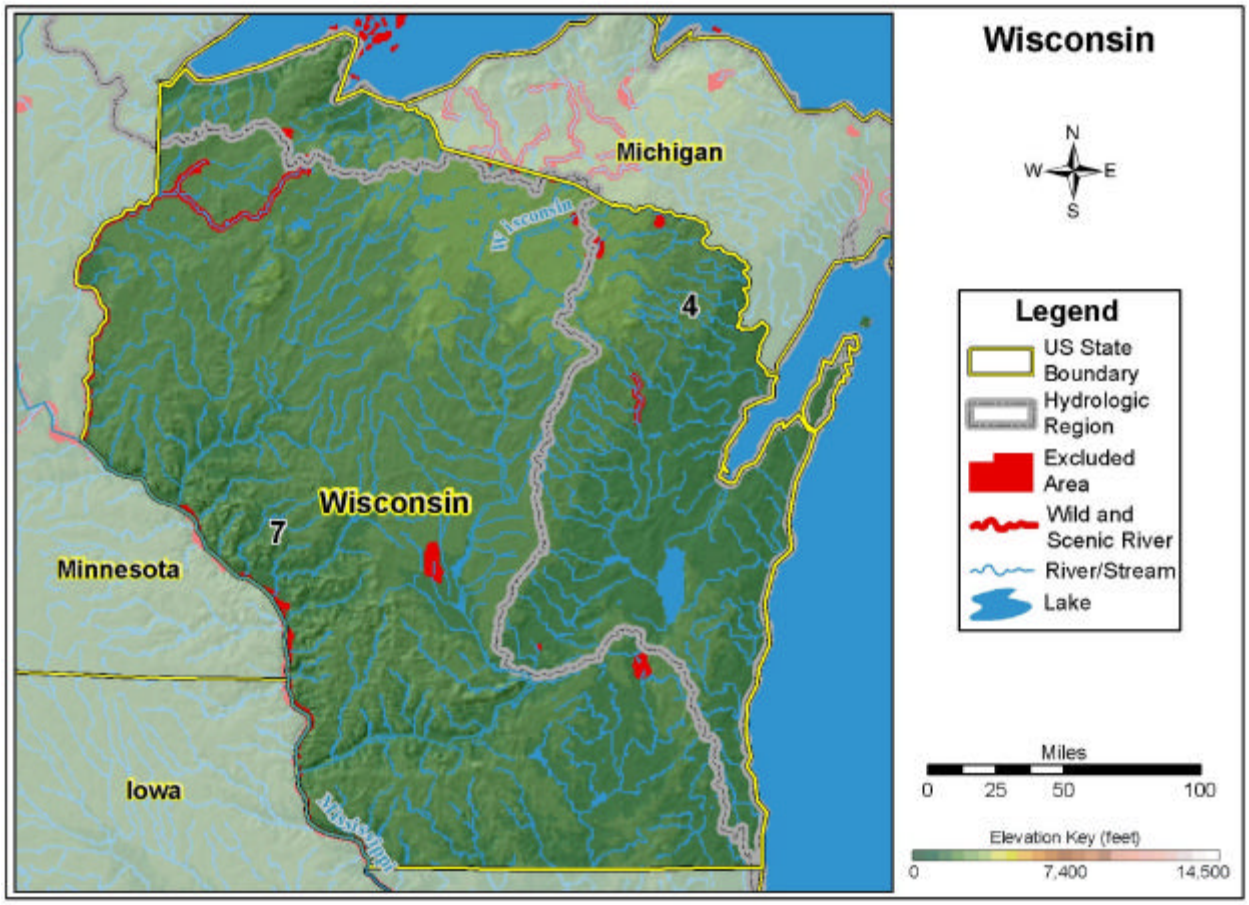


Figure B-241. Wisconsin.

Table B-49. Summary of results of hydropower resource assessment of Wisconsin.

Annual Mean Power (MW)	Total	Developed	Excluded	Available[a]
TOTAL POWER	**1,595**	**264**	**189**	**1,142**
TOTAL HIGH POWER	**996**	**242**	**152**	**602**
High Head/High Power	**502**	**168**	**25**	**309**
Low Head/High Power	**494**	**74**	**127**	**293**
TOTAL LOW POWER	**599**	**22**	**37**	**540**
High Head/Low Power	**149**	**5**	**6**	**138**
Low Head/Low Power	**450**	**17**	**31**	**402**
Conventional Turbine	157	16	10	131
Unconventional Systems	84	0	16	68
Microhydro	209	1	5	203

a. No feasibility or availability assessments have been performed. "Available" only indicates net potential after subtracting developed and excluded potentials from total potential.

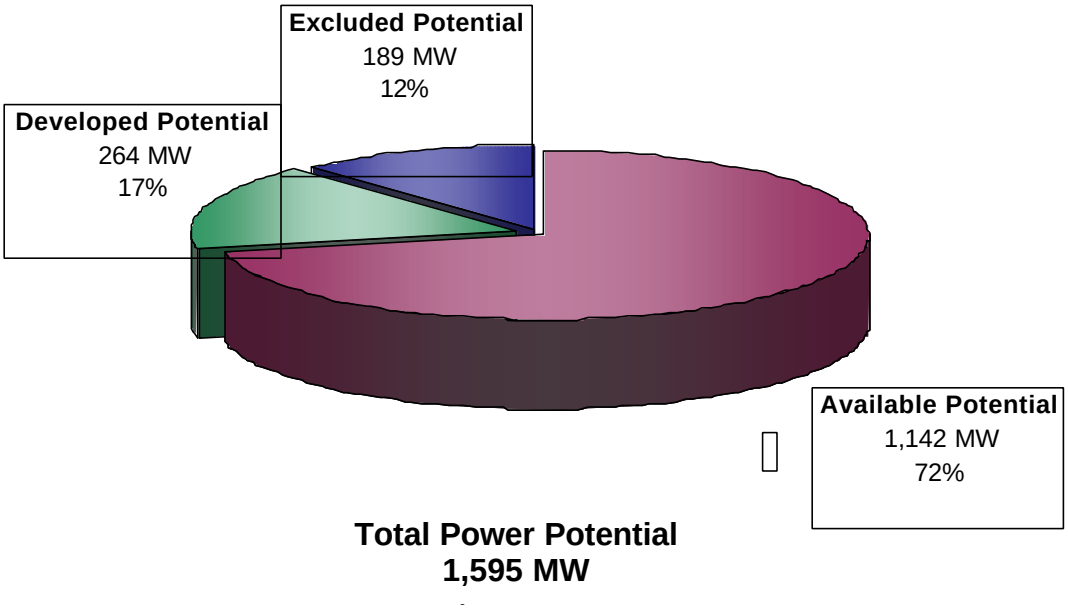


Figure B-242. Power category distribution of the total power potential (annual mean power) of water energy resources in Wisconsin.

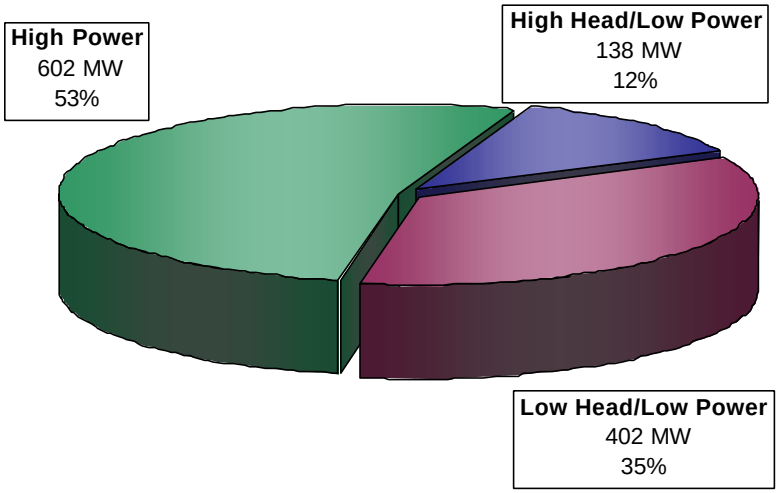


Figure B-243. Power class distribution of the available power potential (annual mean power) of water energy resources in Wisconsin.

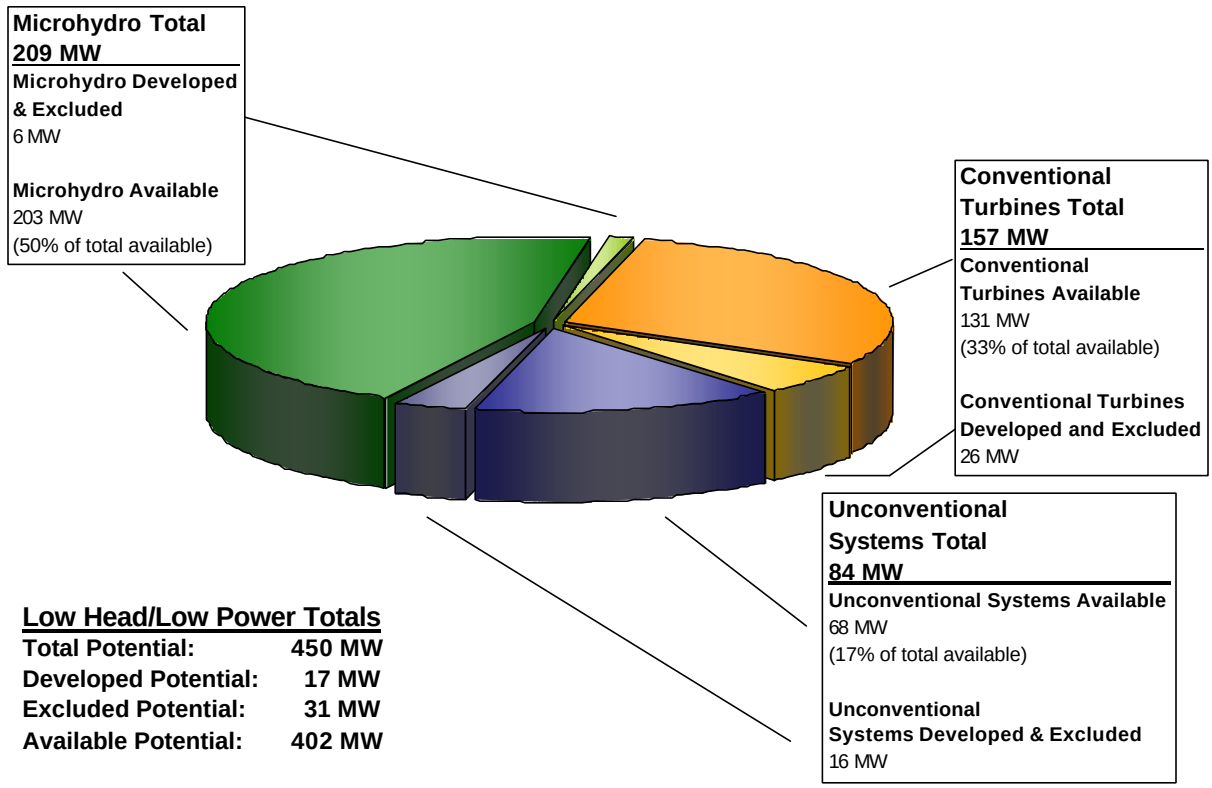


Figure B-244. Distribution of the low head/low power power potential (annual mean power) of water energy resources in Wisconsin among three low head/low power hydropower technology classes.

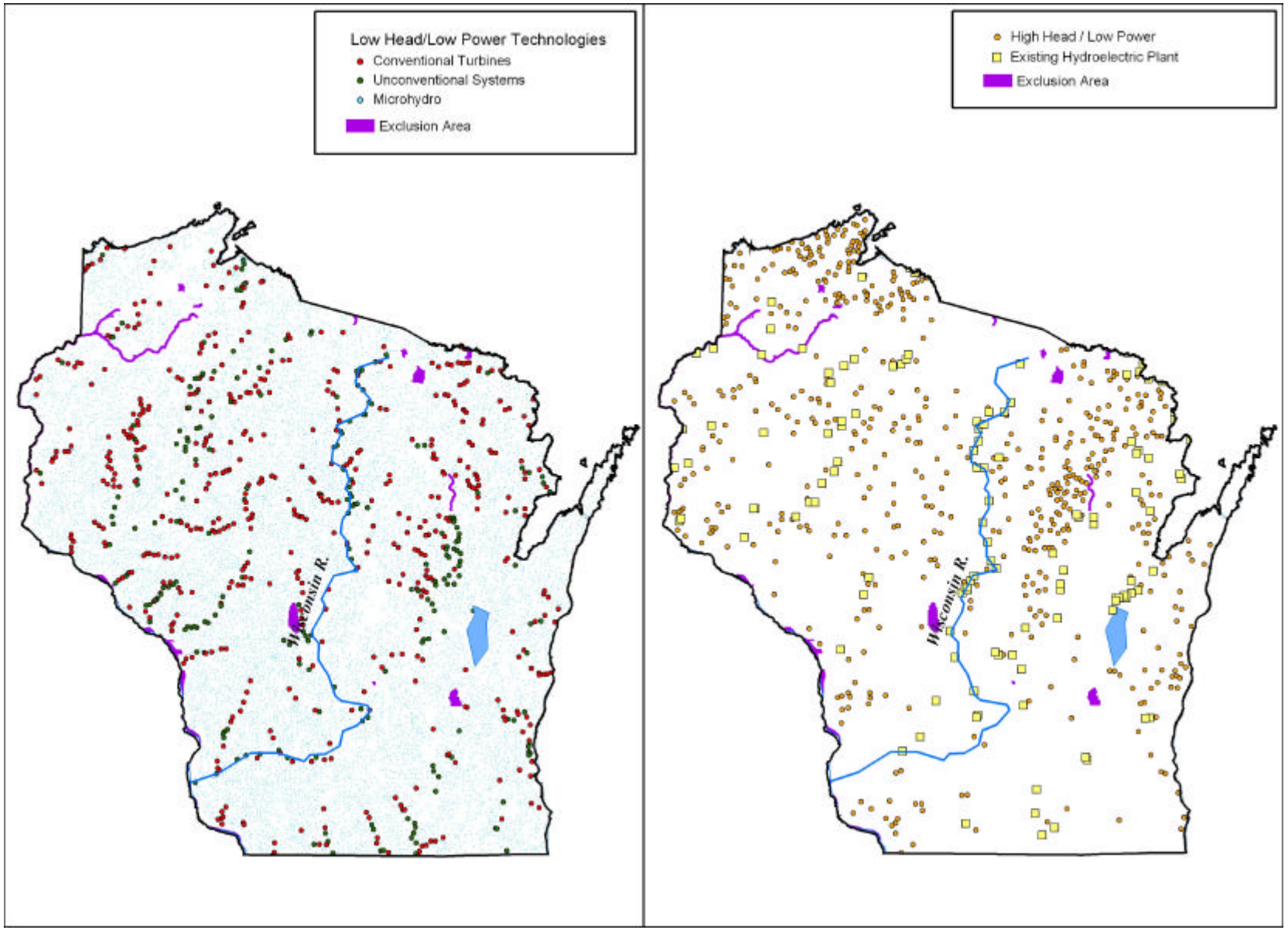


Figure B-245. Low head/low power and high head/low power water energy sites, and existing hydroelectric plants in Wisconsin.

B.50 Wyoming

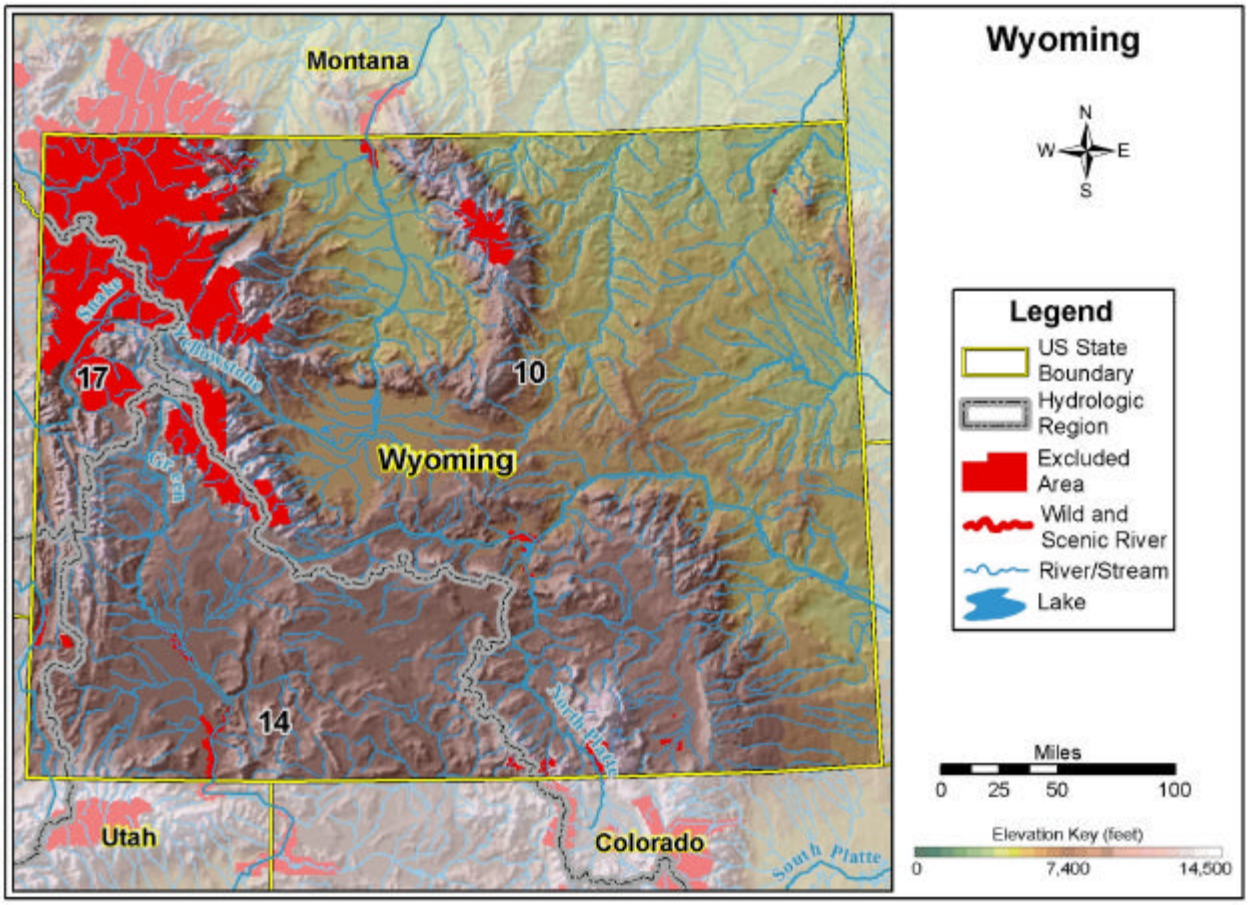


Figure B-246. Wyoming.

Table B-50. Summary of results of hydropower resource assessment of Wyoming.

Annual Mean Power (MW)	Total	Developed	Excluded	Available[a]
TOTAL POWER	**6,058**	**117**	**2,768**	**3,173**
TOTAL HIGH POWER	**4,231**	**116**	**2,211**	**1,904**
High Head/High Power	**3,934**	**116**	**2,150**	**1,668**
Low Head/High Power	**297**	**0**	**61**	**236**
TOTAL LOW POWER	**1,827**	**1**	**557**	**1,269**
High Head/Low Power	**1,299**	**1**	**497**	**801**
Low Head/Low Power	**528**	**0**	**60**	**468**
Conventional Turbine	221	0	27	194
Unconventional Systems	59	0	12	47
Microhydro	248	0	21	227

a. No feasibility or availability assessments have been performed. "Available" only indicates net potential after subtracting developed and excluded potentials from total potential.

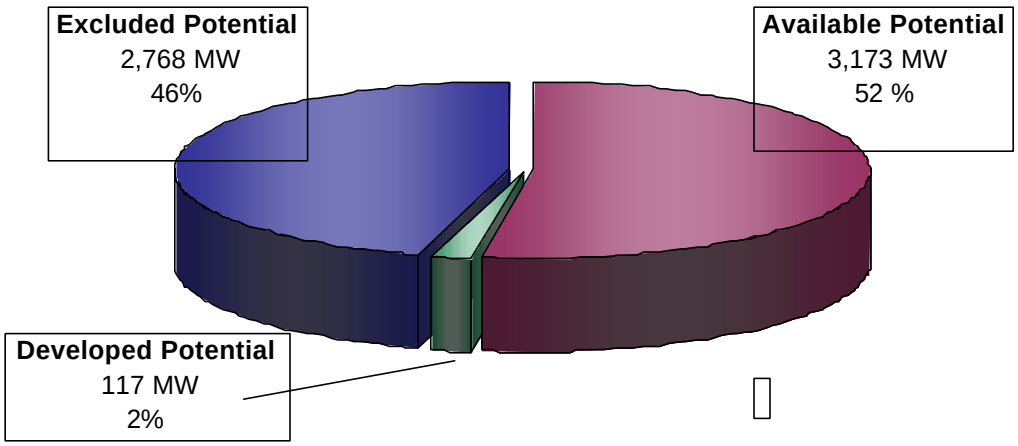


Figure B-247. Power category distribution of the total power potential (annual mean power) of water energy resources in Wyoming.

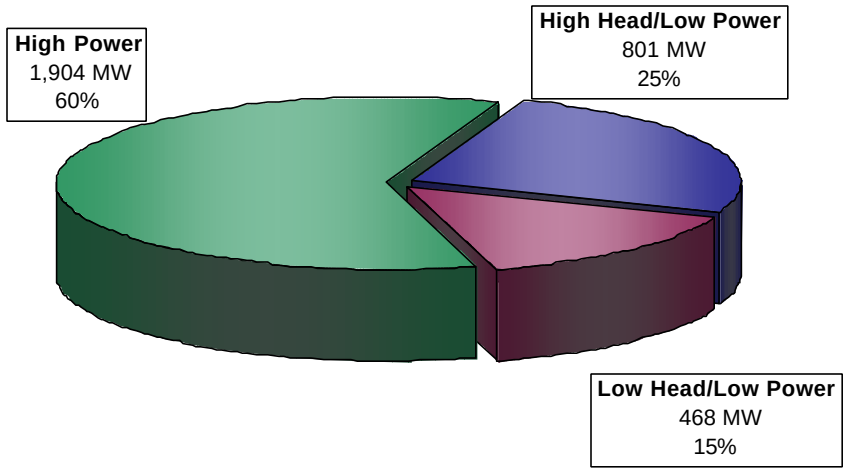


Figure B-248. Power class distribution of the available power potential (annual mean power) of water energy resources in Wyoming.

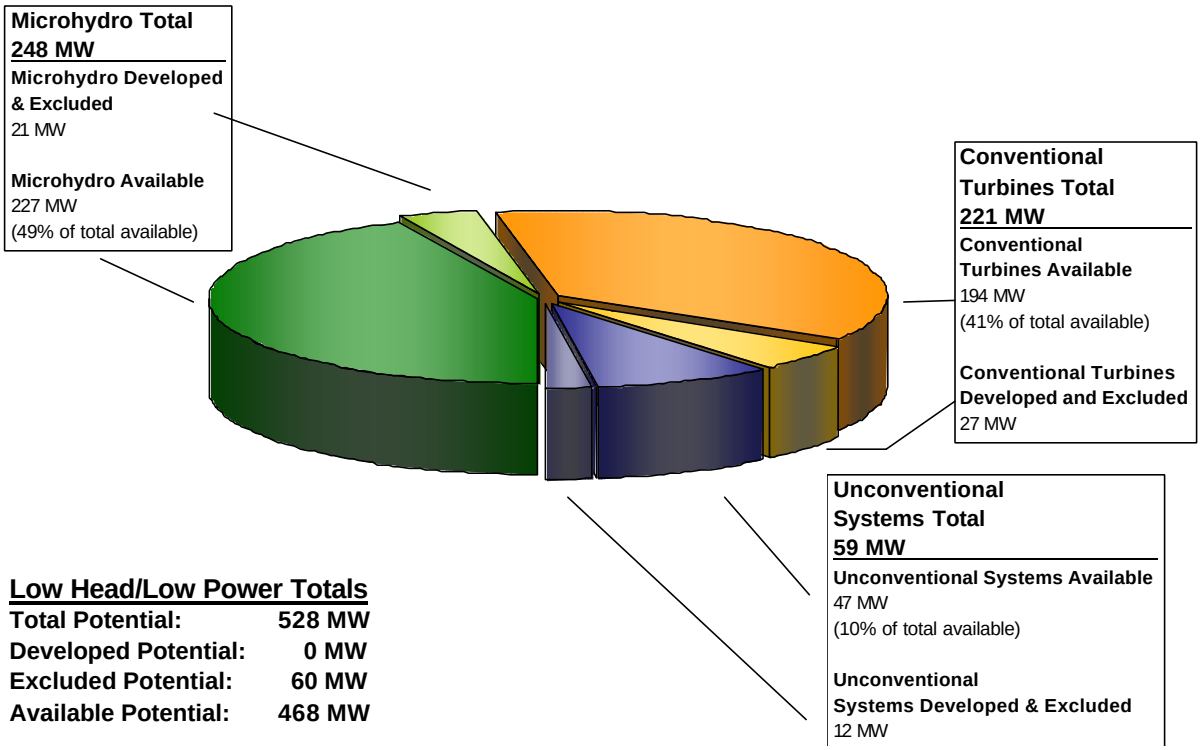


Figure B-249. Distribution of the low head/low power power potential (annual mean power) of water energy resources in Wyoming among three low head/low power hydropower technology classes.

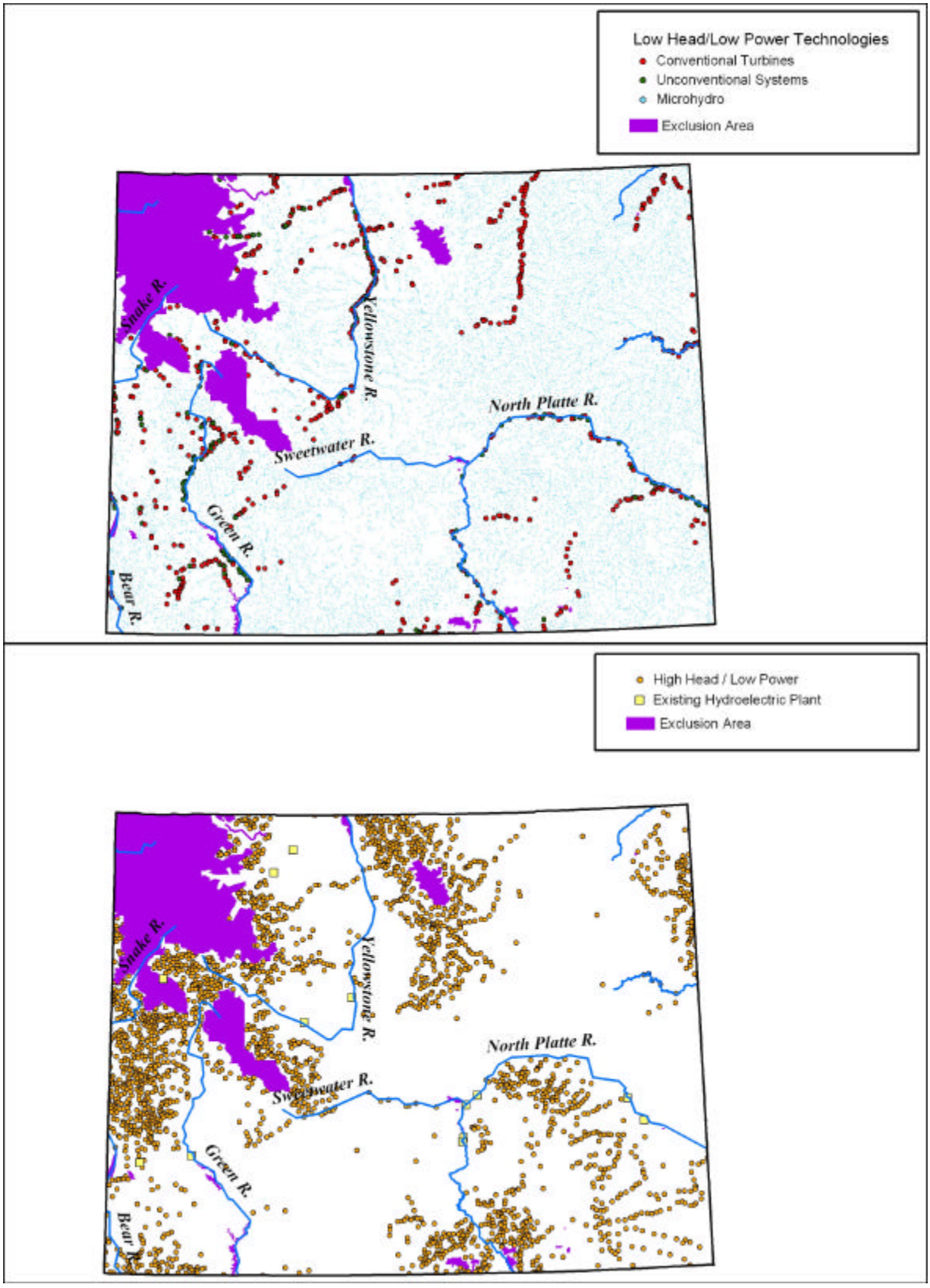


Figure B-250. Low head/low power and high head/low power water energy sites, and existing hydroelectric plants in Wyoming.