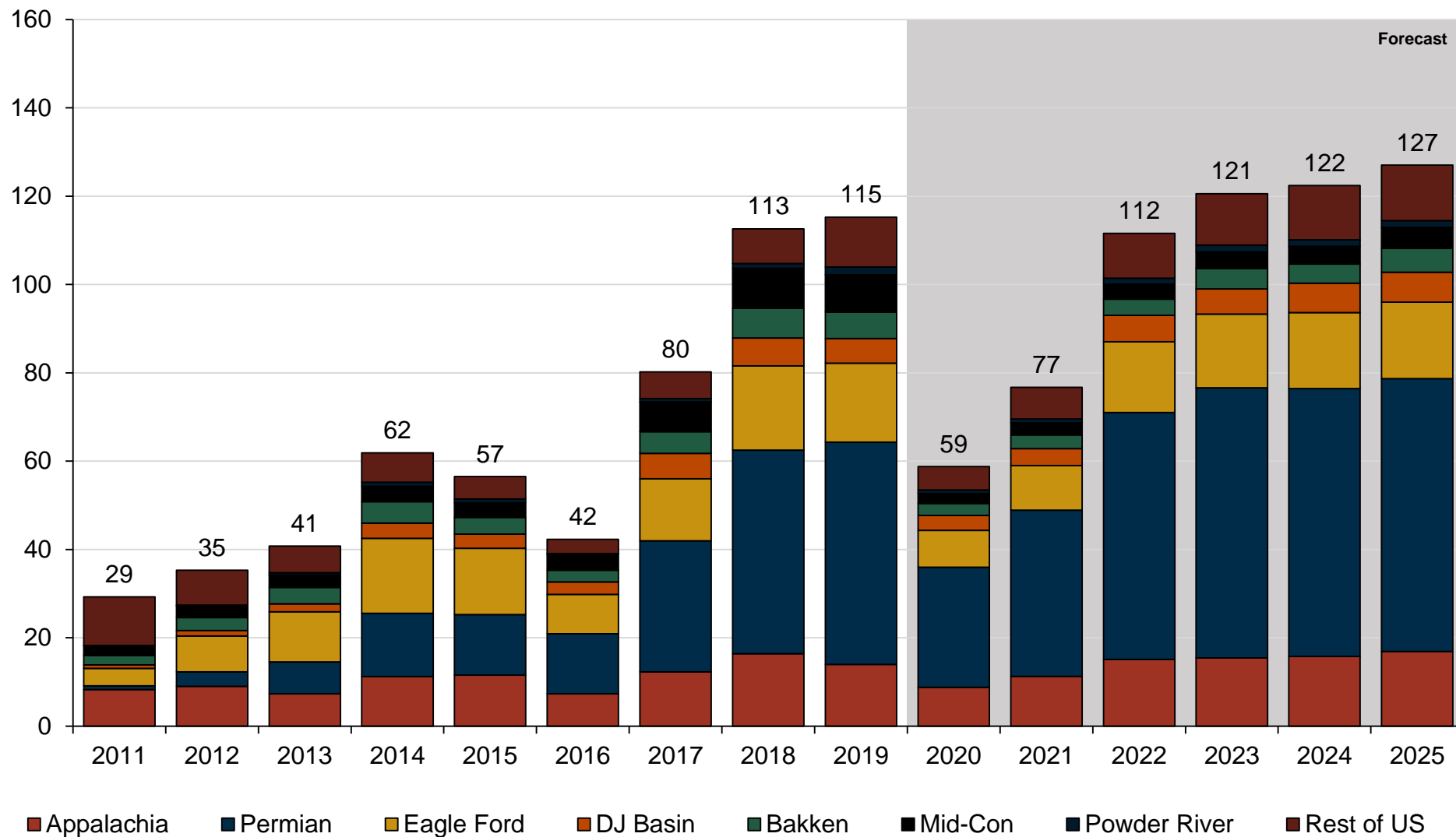


US Land: Frac sand demand

Million tons



Notes: Appalachia includes Appalachia-Marcellus and Appalachia-Utica; Permian includes Permian-Midland, Permian-Delaware and Permian-Other; Eagle Ford includes Eagle Ford and Woodbine; Mid-Con includes Mid-Con-SCOOP, Mid-Con-STACK and Mid-Con-Other
 Source: Rystad Energy research and analysis, Rystad Energy ShaleWellCube

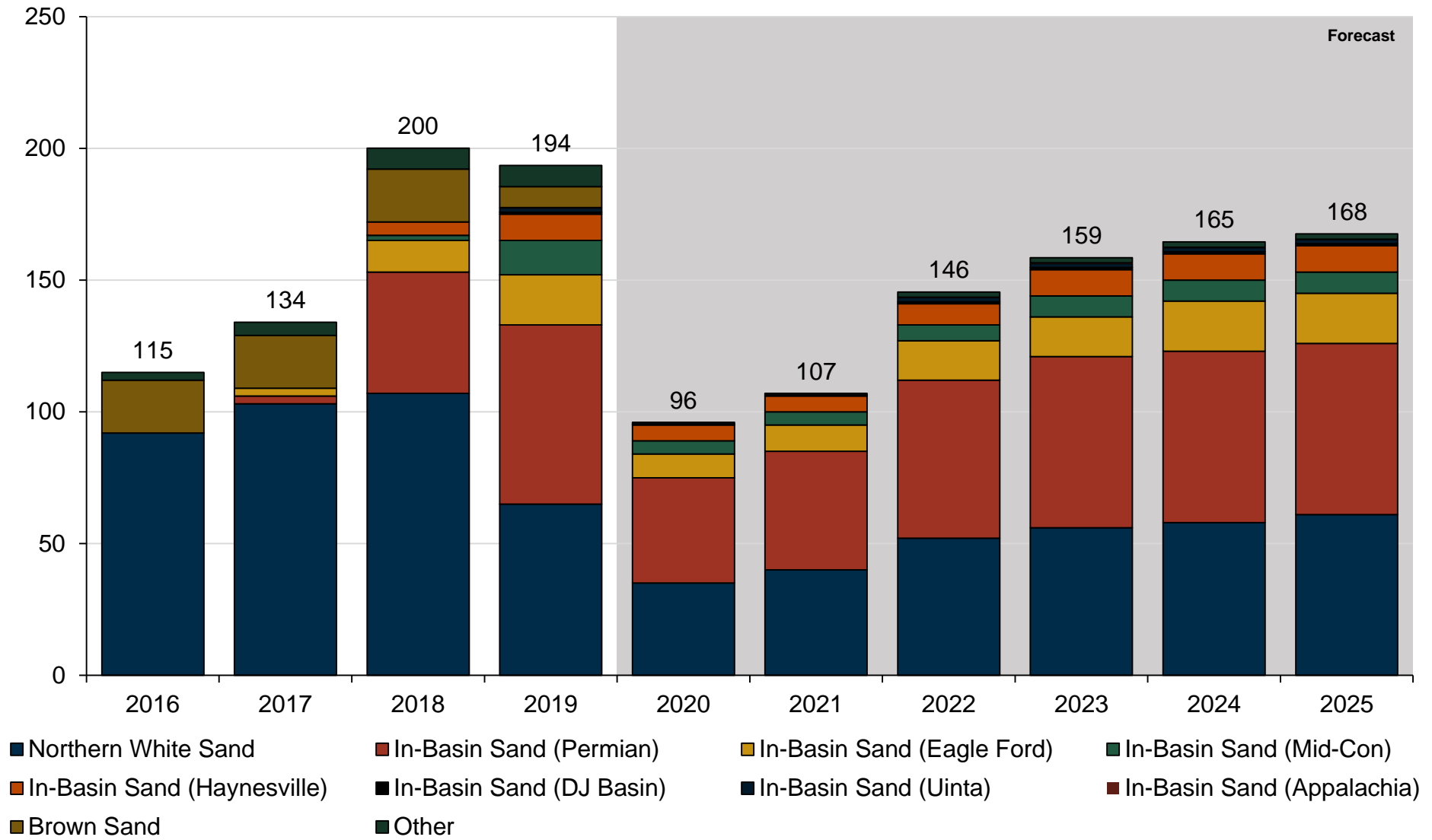
2020: Northern White vs in-basin sand demand, by play

Play / Basin	2020 Frac Sand Demand	In-Basin Sand Adoption Rate (%)	2020 In-Basin Sand Demand	2020 NWS Demand
Appalachia	8.8	0%	0.0	8.8
Bakken	2.7	0%	0.0	2.7
DJ Basin	3.4	2%	0.1	3.3
Eagle Ford	8.3	65%	5.4	2.9
Haynesville	3.5	90%	3.2	0.4
Mid-Con	2.3	80%	1.8	0.5
Permian	27.2	90%	24.5	2.7
Powder River	0.8	0%	0.0	0.8
Rest of US	1.8	0%	0.0	1.8
US Land	58.8	60%	35.0	23.8

Source: Rystad Energy research and analysis, Rystad Energy ShaleWellCube

US Land: Frac sand supply

Million tons



Source: Rystad Energy research and analysis, Rystad Energy ShaleWellCube