During the mid seventies, the Wildlife Division introduced Arctic hare and ptarmigan to Scaterie Island. With the support of the Nova Scotia Fish and Game Association, the area became a wildlife management area in 1976. The hare and ptarmigan persisted for several years but are now believed to have died out.

This wildlife management area includes Scatarie Island and the water, rocks and islands within one mile of its shore. This includes Hay Island, which is about 12 hectares, and several islets and rocks. Total area of the wildlife management area is 6770 hectares, of which 5243 hectares is ocean and coastal wetlands such as marine flats. Scatarie Island is about 1500 hectares in size. It includes 5 hectares owned by the federal government for lighthouses, and 7 hectares of privately owned land. The rest of the island is owned by the Province.

The wildlife management area has about 568 hectares of freshwater wetlands, bogs and ponds, 520 hectares of coastal forest, 323 hectares of barrens, 89 hectares of rock and beach and 10 hectares which have been cleared for lighthouses and powerline corridor.

Hunting for deer and migratory birds is permitted. Other hunting and trapping are prohibited. This area is now a Wilderness Area.