

On July 19th around 06:30 I Christopher martin along with my sister, Brianna martin, took off from ECS in my Cessna 170 B on a flight to SPF. We landed at SPF around 07:00. Upon arriving at SPF, Brianna's friend Jenni, who wanted a ride in the plane met us at the airport. Brianna waited at SPF while I took Jenni for a ride. I and Jenni took off from SPF around 07:30, flew for about forty minutes in a circle over Bear butte, Orman dam, then back to SPF. When we landed at SPF, Jenni left, and I had the airport attendant fill the plane with fuel for The return trip to ECS. Around 08:30 Brianna and I took off from SPF headed for ECS, The airport weather observation indicated calm wind so I chose to use runway 260, a turf runway the dirction of which coincided with the route I wanted to take back to ECS. However, a few seconds after lifting off the ground, I noticed I was not able to climb at a nomal rate. Even after reducing the pitch angle, the airspeed remained dangerously low, and the stall horn sounded intermittently. The departure from runway 260 is directly over the city of spearfish, SD and I, fearing that I would be unable to climb away from the ground and crash in the populated area ahead, cut the throttle and let the plane come back down to the runway. By this time however, there was not sufficient runway ahead to get the plane stopped. The plane rolled off the end of the runway, down a slight grade, and roughly 70 yards off the end of the runway, the left wing struck a tree. When the wing struck the tree, the plane spun 180 degrees. and came to rest facing the opposite direction that we had departed. Neither I or my sister had any injuries.