SI Table 1: Description of sites sampled at the Mazar Wildlife Reserve.

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| **Site** | **Elevation (m)** | **Slope** | **Coordinates** | **Land cover** | **Land use** |
| **M1Y** | 3449 | 21 | 2**°**34’17”S, 78**°**44’52”W | Regenerating páramo; 15-25% short tussock; 10-15% shrubs (regenerating); 20-30% low lying herbs; 30-40% bare ground. | Burned in July 2009 as part of an experimental burn; burned again in November 2009 in an accidental burn; alpaca grazing; Prior to 2009, this site had not been burned in 20 years |
| **M6Y** | 3428 | 20 | 2**°**33’56”S, 78**°**44’58”W | Grass páramo; 70-80% tussock grass; 5-10% shrubs; 10-20% low lying herbs; 10-20% bare ground  | Burned in January 2004; occasional alpaca grazing  |
| **M25Y** | 3453 | 13.5 | 2**°**34’15”S, 78**°**44’45”W | Shrubby páramo; 40-50% tussock grass; 15-20% *Puya;* 15-20% shrubs; 1-5% trees; 10-15% other herbaceous | Last burned approximately 25 years ago; near research cabin, but minimal disturbance |
| **M45Y** | 3351 | 22 | 2**°**34’27”S, 78**°**44’49”W | Shrubby páramo/woodland; 5-10% tussock grass; 50-60% shrubs; 20-30% trees; 10-20% low lying herbs | Last burn over 45 years ago |
| **MP1** | 3402 | 17.5 | 2**°**34’04”S, 78**°**45’03”W | Pine plantation; 5-10% shrubs | Pine plantation |
| **MP2** | 3249 | 20 | 2**°**34’24”S, 78**°**44’43”W | Pine plantation; 1-5% shrubs | Pine plantation |