

# E

## E & E Bird Survey Tables



**Table E-1 Raptor Survey Data for Surveys Conducted in the Ball Hill Project Area in Fall 2006, Spring 2007, and Spring 2008**

Date	Time	Common Name	Number	Height	Direction <sup>1</sup>	Local? <sup>2</sup>
9/15/2006	09:08	Northern Harrier	1	L	L	Local
	09:32	Red-tailed Hawk	1	L	L	Local
	10:02	American Kestrel	1	L	L	Local
	11:56	Merlin	1	L	SE	Migrant
	11:58	Turkey Vulture	13	H	SE	Migrant
	12:18	Red-tailed Hawk	2	L	L	Local
	12:28	Turkey Vulture	1	H	SE	Migrant
	12:37	Turkey Vulture	3	L	NW	Local
	12:55	Red-tailed Hawk	1	L	L	Local
	13:14	American Kestrel	1	L	L	Local
	13:24	Turkey Vulture	2	L	SE	Local
	13:43	Northern Harrier	1	L	L	Local
	13:47	Turkey Vulture	1	L	SE	Migrant
	13:57	Turkey Vulture	1	H,L	S	Migrant
	14:00	Turkey Vulture	1	H	SW	Migrant
10/5/2006	09:09	Northern Harrier	1	L	L	Local
	09:26	Cooper's Hawk	1	L	N	Local
	10:02	Northern Harrier	1	H	SE	Migrant
	10:03	Turkey Vulture	1	H	E	Migrant
	10:25	Turkey Vulture	8	H	SE	Migrant
	10:32	Red-tailed Hawk	1	L	L	Local
	10:33	Red-shouldered Hawk	3	H	W	Migrant
	10:38	Turkey Vulture	3	L	SW	Migrant
	10:41	Turkey Vulture	3	H	SE	Migrant
	10:42	Northern Harrier	1	L	L	Local
	10:53	Turkey Vulture	2	L	SE	Migrant
	10:54	Turkey Vulture	1	L	W	Migrant
	11:04	Red-shouldered Hawk	1	H	SE	Migrant
	11:04	Turkey Vulture	4	H	SE	Migrant
	11:10	Red-tailed Hawk	1	L	L	Local
	11:22	Sharp-shinned Hawk	1	H	SW	Migrant
	11:37	Turkey Vulture	3	H	SE	Migrant
	12:04	Merlin	1	L	S	Migrant
	12:04	Turkey Vulture	1	H	S	Migrant
	12:09	Cooper's Hawk	1	L	S	Migrant
12:33	Red-shouldered Hawk	2	H	W	Migrant	
13:14	Turkey Vulture	2	H	SW	Migrant	

**Table E-1 Raptor Survey Data for Surveys Conducted in the Ball Hill Project Area in Fall 2006, Spring 2007, and Spring 2008**

Date	Time	Common Name	Number	Height	Direction <sup>1</sup>	Local? <sup>2</sup>	
	13:22	American Kestrel	1	L	L	Local	
	15:20	Northern Harrier	1	H	S	Migrant	
	15:30	Turkey Vulture	3	L	NE	Local	
11/1/2006	09:00	American Kestrel	1	L	N	Local	
	09:34	Northern Harrier	2	L	L	Local	
	10:01	Red-tailed Hawk	1	H	N	Local	
	10:01	Unknown Buteo	2	H	N	Local	
	10:03	Unknown Buteo	1	H	L	Local	
	10:10	Red-tailed Hawk	1	L	L	Local	
	11:29	Red-tailed Hawk	1	L	S	Migrant	
	11:35	Cooper's Hawk	1	L	NW	Local	
	11:41	Unknown Raptor	1	H	W	Migrant	
	13:35	Red-tailed Hawk	4	H	NE	Local	
	4/22/2007	09:25	Osprey	1	H	NE	Migrant
		09:44	Rough-legged Hawk	2	H	NE	Migrant
09:49		Turkey Vulture	1	L	W	Local	
09:55		Broad-winged Hawk	1	H	NE	Migrant	
09:59		Cooper's Hawk	1	L	W	Local	
10:00		Turkey Vulture	2	L	E	Migrant	
10:18		Red-tailed Hawk	1	L	L	Local	
10:18		Turkey Vulture	4	L	SE	Local	
10:22		Turkey Vulture	1	L	S	Local	
10:28		Red-tailed Hawk	1	L	L	Local	
10:28		Rough-legged Hawk	1	L	SE	Local	
10:39		Unknown Buteo	1	H	E	Migrant	
10:44		Turkey Vulture	2	L	N	Migrant	
10:47		Unknown Buteo	1	H	N	Migrant	
10:54		Red-tailed Hawk	1	H	NE	Migrant	
11:19		Turkey Vulture	1	L	E	Local	
12:30		Turkey Vulture	3	L	SE	Local	
12:35		Red-tailed Hawk	2	H	NE	Migrant	
12:35		Turkey Vulture	1	L	SW	Local	
13:03		American Kestrel	1	L	W	Local	
13:30		American Kestrel	1	L	W	Local	
15:21		Northern Harrier	1	L	SW	Local	
15:30	Turkey Vulture	3	L	N	Migrant		

**Table E-1 Raptor Survey Data for Surveys Conducted in the Ball Hill Project Area in Fall 2006, Spring 2007, and Spring 2008**

Date	Time	Common Name	Number	Height	Direction <sup>1</sup>	Local? <sup>2</sup>
4/23/2007	09:07	Sharp-shinned Hawk	1	L	NE	Migrant
	09:10	Red-tailed Hawk	2	L	L	Local
	09:17	Cooper's Hawk	2	L	L	Local
	09:17	Turkey Vulture	1	H	NE	Migrant
	09:24	Broad-winged Hawk	2	L	NE	Migrant
	09:24	Turkey Vulture	3	L	NE	Migrant
	09:31	Red-shouldered Hawk	1	L	L	Local
	09:38	Broad-winged Hawk	9	H	NE	Migrant
	09:38	Sharp-shinned Hawk	2	H	NE	Migrant
	09:38	Turkey Vulture	1	H	NE	Migrant
	09:40	Bald Eagle	1	L	NE	Migrant
	09:46	Broad-winged Hawk	5	H	NE	Migrant
	09:46	Sharp-shinned Hawk	2	H	NE	Migrant
	09:52	Turkey Vulture	12	H	NE	Migrant
	09:56	American Kestrel	1	L	L	Local
	10:12	Broad-winged Hawk	2	H	NE	Migrant
	10:12	Sharp-shinned Hawk	1	H	NE	Migrant
	10:19	Cooper's Hawk	1	H	NE	Migrant
	10:24	Sharp-shinned Hawk	1	H	NE	Migrant
	11:36	Broad-winged Hawk	1	H	NE	Migrant
	12:10	Turkey Vulture	1	H	NE	Migrant
	12:41	Broad-winged Hawk	1	L	L	Local
	12:41	Red-tailed Hawk	1	H	NE	Migrant
4/30/2007	09:13	Bald Eagle	1	L	ESE	Local
	09:24	Red-tailed Hawk	1	H	W	Migrant
	09:29	Turkey Vulture	1	L	L	Migrant
	09:38	Red-tailed Hawk	1	L	L	Local
	09:41	Unknown Raptor	1	L	L	Local
	10:10	Red-tailed Hawk	1	L	E	Local

**Table E-1 Raptor Survey Data for Surveys Conducted in the Ball Hill Project Area in Fall 2006, Spring 2007, and Spring 2008**

Date	Time	Common Name	Number	Height	Direction <sup>1</sup>	Local? <sup>2</sup>
	10:19	Red-tailed Hawk	1	H	NE	Migrant
	10:19	Unknown Raptor	1	H	W	Migrant
	10:41	Northern Harrier	1	H	NE	Migrant
	10:42	Turkey Vulture	1	L	NE	Migrant
	10:45	Red-tailed Hawk	1	H	L	Local
	10:57	Turkey Vulture	1	L	N	Local
	11:14	Turkey Vulture	5	-	E	Migrant
	11:25	Broad-winged Hawk	1	L	SW	Local
	11:54	Turkey Vulture	5	-	W	Migrant
	12:01	Turkey Vulture	3	H	W	Migrant
	12:05	Turkey Vulture	1	H	NE	Migrant
	12:17	Turkey Vulture	5	L	E	Migrant
	12:20	Turkey Vulture	1	L	SW	Local
	12:26	Turkey Vulture	7	L	E	Migrant
	12:29	Osprey	1	L	SE	Local
	12:51	Turkey Vulture	2	L	S	Local
	13:43	Turkey Vulture	8	L	SW	Local
	13:58	Red-tailed Hawk	1	L	S	Local
	14:03	Red-tailed Hawk	1	L	L	Local
	14:28	Turkey Vulture	1	L	SE	Local
	14:36	Turkey Vulture	2	L	L	Local
	14:41	Northern Harrier	1	L	W	Migrant
	14:47	Turkey Vulture	2	H	SW	Local
	14:58	Turkey Vulture	4	-	W	Migrant
	15:17	Turkey Vulture	5	L	W	Migrant
	15:22	Turkey Vulture	1	L	NE	Migrant
	15:28	Turkey Vulture	8	-	NE	Migrant
	15:31	Turkey Vulture	5	H	WSW	Local
3/30/2008	09:07	American Kestrel	2	L	L	Local
	09:53	Turkey Vulture	4	H	E	Migrant
	10:14	Red-tailed Hawk	1	H	E	Migrant
	10:23	Turkey Vulture	2	L	SE	Local
	10:29	Turkey Vulture	1	H	W	Migrant
	10:45	Red-tailed Hawk	1	L	L	Local
	10:58	Turkey Vulture	1	L	SE	Local
	11:05	Turkey Vulture	1	H	E	Migrant
	11:14	Turkey Vulture	1	L	W	Migrant
	11:42	Turkey Vulture	1	L	E	Migrant
	11:43	Red-tailed Hawk	1	H	SW	Local
	12:09	Turkey Vulture	2	L	NE	Migrant

**Table E-1 Raptor Survey Data for Surveys Conducted in the Ball Hill Project Area in Fall 2006, Spring 2007, and Spring 2008**

Date	Time	Common Name	Number	Height	Direction <sup>1</sup>	Local? <sup>2</sup>
	12:11	Turkey Vulture	1	L	NE	Migrant
	12:19	Turkey Vulture	4	L	E	Migrant
	12:41	Turkey Vulture	2	H	N	Migrant
	12:46	Turkey Vulture	2	H	N	Migrant
	12:48	Turkey Vulture	4	H	E	Migrant
	12:48	Red-tailed Hawk	2	H	E	Migrant
	13:03	Turkey Vulture	2	L	SE	Local
	13:19	Rough-legged Hawk	1	H	E	Migrant
	13:26	Turkey Vulture	1	L	E	Migrant
	13:28	Red-tailed Hawk	1	H	L	Local
	13:39	Golden Eagle	1	L	E	Migrant
	13:48	Turkey Vulture	1	H	NW	Migrant
	13:59	Northern Harrier	1	L	NE	Migrant
	14:06	Red-tailed Hawk	1	L	NW	Local
	14:10	Turkey Vulture	1	L	N	Migrant
	14:26	Red-tailed Hawk	1	H	E	Migrant
	14:52	Unknown Raptor	1	H	NE	Migrant
	14:55	Northern Harrier	1	L	L	Local
	15:04	Turkey Vulture	1	L	N	Migrant
	15:06	Turkey Vulture	2	L	E	Migrant
	15:11	Turkey Vulture	1	L	N	Migrant
	15:22	Turkey Vulture	9	H	W	Migrant
	15:26	Rough-legged Hawk	1	H	S	Local
	15:32	Northern Harrier	1	H	NW	Migrant
	15:35	Red-tailed Hawk	4	L	NE	Migrant
	15:37	Turkey Vulture	4	H	NE	Migrant
4/7/2008	09:04	Red-tailed Hawk	1	L	L	Local
	09:05	Turkey Vulture	1	H	NW	Migrant
	09:14	Turkey Vulture	3	L	NW	Migrant
	09:15	Red-tailed Hawk	2	H	L	Local
	09:28	Turkey Vulture	2	L	SW	Local
	09:39	Turkey Vulture	1	L	NE	Migrant
	09:43	Turkey Vulture	1	H	NE	Migrant
	09:54	Turkey Vulture	2	L	NE	Migrant
	09:57	Turkey Vulture	6	L	NE	Migrant
	10:04	Turkey Vulture	2	L	NE	Migrant
	10:09	Turkey Vulture	2	L	NE	Migrant
	10:17	Turkey Vulture	3	L	NE	Migrant
	10:17	Turkey Vulture	1	L	E	Migrant

**Table E-1 Raptor Survey Data for Surveys Conducted in the Ball Hill Project Area in Fall 2006, Spring 2007, and Spring 2008**

Date	Time	Common Name	Number	Height	Direction <sup>1</sup>	Local? <sup>2</sup>
	10:28	Turkey Vulture	3	H	E	Migrant
	10:35	Turkey Vulture	2	L	E	Migrant
	10:59	Turkey Vulture	1	H	NE	Migrant
	10:59	Red-tailed Hawk	1	L	NE	Local
	11:08	Turkey Vulture	1	L	E	Migrant
	11:10	Turkey Vulture	2	L	E	Migrant
	11:12	Turkey Vulture	3	H	NE	Migrant
	11:25	Turkey Vulture	3	L	SE	Local
	12:04	Red-tailed Hawk	2	H	SE	Local
	12:06	Golden Eagle	1	H	NW	Migrant
	12:09	Turkey Vulture	3	H	N	Migrant
	12:20	American Kestrel	1	L	N	Local
	12:23	Turkey Vulture	1	L	L	Migrant
	12:29	Bald Eagle	1	L	E	Migrant
	12:30	Turkey Vulture	1	H	E	Migrant
	12:38	Turkey Vulture	2	L	SE	Local
	12:41	Turkey Vulture	2	L	SE	Local
	12:49	Turkey Vulture	1	H	S	Migrant
	12:52	Turkey Vulture	1	H	NE	Migrant
	12:52	Turkey Vulture	2	L	NE	Migrant
	13:06	Turkey Vulture	1	H	E	Migrant
	13:35	Turkey Vulture	1	L	W	Migrant
	13:36	Turkey Vulture	3	H	NE	Migrant
	13:41	Turkey Vulture	2	L	NE	Migrant
	13:49	Red-tailed Hawk	1	H	S	Local
	14:02	Turkey Vulture	4	H	E	Migrant
	14:03	Turkey Vulture	1	L	N	Migrant
	14:09	Turkey Vulture	5	H	SW	Local
	14:13	Bald Eagle	1	H	S	Local
	14:13	Turkey Vulture	2	H	SW	Local
	14:16	Turkey Vulture	2	H	E	Migrant
	14:17	Unknown Buteo	1	H	E	Migrant
	14:29	Turkey Vulture	1	L	E	Migrant
	14:33	Turkey Vulture	3	L	E	Migrant
	14:39	Red-tailed Hawk	2	H	E	Migrant
	14:42	Turkey Vulture	2	H	E	Migrant
	15:21	Common Raven	1	L	E	Migrant
	15:30	Turkey Vulture	2	L	N	Migrant
	15:32	Turkey Vulture	2	L	NE	Migrant
	15:32	Turkey Vulture	1	H	NE	Migrant
	15:39	Turkey Vulture	1	H	S	Local

**Table E-1 Raptor Survey Data for Surveys Conducted in the Ball Hill Project Area in Fall 2006, Spring 2007, and Spring 2008**

Date	Time	Common Name	Number	Height	Direction <sup>1</sup>	Local? <sup>2</sup>	
4/15/2008	15:43	Turkey Vulture	2	L	S	Local	
	15:49	Turkey Vulture	3	L	NE	Migrant	
	15:57	Red-tailed Hawk	1	H	NE	Migrant	
	09:30	Turkey Vulture	2	L	NE	Migrant	
	09:39	Turkey Vulture	4	L	NE	Migrant	
	09:49	Northern Harrier	1	L	W	Local	
	09:53	Turkey Vulture	1	L	W	Local	
	10:46	Turkey Vulture	1	L	W	Local	
	10:46	Red-tailed Hawk	1	L	L	Local	
	10:56	Turkey Vulture	1	H	W	Migrant	
	11:08	Northern Harrier	1	H	SE	Local	
	12:16	Red-tailed Hawk	2	H	NE	Migrant	
	12:16	Common Raven	2	H	NE	Migrant	
	12:53	Turkey Vulture	2	L	NE	Migrant	
	13:05	Red-tailed Hawk	1	L	N	Local	
	13:12	Red-tailed Hawk	2	H	NE	Migrant	
	13:15	Turkey Vulture	3	H	NE	Migrant	
	13:22	Turkey Vulture	1	H	NE	Migrant	
	13:26	Turkey Vulture	2	H	NE	Migrant	
	13:30	Red-tailed Hawk	1	L	L	Local	
	13:38	Turkey Vulture	2	H	NE	Migrant	
	14:22	Turkey Vulture	2	H	NE	Migrant	
	14:39	American Kestrel	1	L	L	Local	
	14:43	Turkey Vulture	1	L	NE	Migrant	
	14:50	Common Raven	1	H	NE	Migrant	
	15:21	Red-tailed Hawk	2	H	NE	Migrant	
	15:24	American Kestrel	1	L	L	Local	
	15:41	Turkey Vulture	1	L	NE	Migrant	
	4/24/2008	09:08	Turkey Vulture	1	H	W	Migrant
		09:11	Red-tailed Hawk	1	L	L	Local
09:28		Red-tailed Hawk	2	H	L	Local	
09:34		Turkey Vulture	2	H	NE	Migrant	
09:48		Turkey Vulture	3	H	L	Local	
09:48		Turkey Vulture	3	L	L	Local	
09:51		Red-tailed Hawk	2	H	NE	Migrant	
10:00		Turkey Vulture	2	H	NE	Migrant	
10:10		Turkey Vulture	1	L	N	Migrant	
10:15		Red-tailed Hawk	2	L	L	Local	
10:15		Turkey Vulture	1	L	S	Local	
10:18		Turkey Vulture	1	L	N	Migrant	
10:23	Turkey Vulture	2	L	L	Local		

**Table E-1 Raptor Survey Data for Surveys Conducted in the Ball Hill Project Area in Fall 2006, Spring 2007, and Spring 2008**

Date	Time	Common Name	Number	Height	Direction <sup>1</sup>	Local? <sup>2</sup>
	10:32	Turkey Vulture	2	L	L	Local
	10:32	Red-tailed Hawk	1	L	L	Local
	10:47	Turkey Vulture	1	L	L	Local
	10:58	Turkey Vulture	1	L	L	Local
	11:01	Turkey Vulture	4	L	L	Local
	11:09	Turkey Vulture	5	L	L	Local
	11:10	Red-tailed Hawk	1	L	L	Local
	11:52	Turkey Vulture	3	L	L	Local
	11:52	Red-tailed Hawk	1	H	L	Local
	12:03	Turkey Vulture	4	H	L	Local
	12:15	Red-tailed Hawk	3	L	NE	Migrant
	12:15	Turkey Vulture	5	L	L	Local
	12:16	Red-tailed Hawk	1	L	L	Local
	12:29	Turkey Vulture	3	L	NE	Migrant
	12:43	Turkey Vulture	6	H	W	Migrant
	12:49	Turkey Vulture	1	H	L	Local
	12:49	Turkey Vulture	1	H	NE	Migrant
	13:06	Turkey Vulture	1	H	L	Local
	13:28	Turkey Vulture	1	L	L	Local
	13:41	Turkey Vulture	2	H	W	Migrant
	13:51	Turkey Vulture	1	H	NE	Migrant
	14:00	Turkey Vulture	1	H	L	Local
	14:08	Red-tailed Hawk	2	H	NE	Migrant
	14:10	Turkey Vulture	2	H	W	Migrant
	14:19	Turkey Vulture	1	L	L	Local
	14:20	Turkey Vulture	2	L	NW	Migrant
	14:31	Turkey Vulture	3	L	NE	Migrant
	14:42	Red-tailed Hawk	3	H	NE	Migrant
	14:44	Turkey Vulture	1	L	W	Migrant
	14:50	Turkey Vulture	1	L	NE	Migrant
	14:52	Turkey Vulture	2	L	L	Local
	15:05	Turkey Vulture	3	H	L	Local
	15:12	Turkey Vulture	2	L	L	Local
	15:26	Turkey Vulture	3	L	L	Local
	15:34	Turkey Vulture	3	L	L	Local
	15:34	Red-tailed Hawk	1	L	L	Local
	15:36	Turkey Vulture	2	L	L	Local
	15:44	Turkey Vulture	3	L	L	Local
	15:48	Turkey Vulture	4	H	NE	Migrant
	15:54	Red-tailed Hawk	1	L	L	Local

**Table E-1 Raptor Survey Data for Surveys Conducted in the Ball Hill Project Area in Fall 2006, Spring 2007, and Spring 2008**

Date	Time	Common Name	Number	Height	Direction <sup>1</sup>	Local? <sup>2</sup>
5/6/2008	09:04	American Kestrel	1	L	L	Local
	09:07	Turkey Vulture	1	L	L	Local
	09:12	Turkey Vulture	2	H	L	Local
	09:37	Turkey Vulture	1	L	L	Local
	09:42	Turkey Vulture	2	L	L	Local
	10:01	Turkey Vulture	7	L	L	Local
	10:07	Turkey Vulture	4	L	L	Local
	10:31	Turkey Vulture	4	H	L	Local
	10:31	Red-tailed Hawk	4	H	L	Local
	10:34	Turkey Vulture	1	H	L	Local
	10:48	Red-tailed Hawk	1	H	L	Local
	10:52	American Kestrel	1	L	E	Migrant
	10:55	Turkey Vulture	1	L	L	Local
	11:29	Turkey Vulture	2	L	L	Local
	11:29	Turkey Vulture	1	H	L	Local
	11:48	Turkey Vulture	2	L	L	Local
	11:51	Red-tailed Hawk	1	H	L	Local
	11:51	Turkey Vulture	4	H	L	Local
	12:12	Turkey Vulture	7	L	L	Local
	12:13	Turkey Vulture	1	L	E	Migrant
	12:23	Red-tailed Hawk	1	H	L	Local
	12:46	Red-tailed Hawk	1	H	L	Local
	13:01	Turkey Vulture	5	L	L	Local
	13:08	American Kestrel	1	L	L	Local
	13:21	Red-tailed Hawk	1	H	N	Migrant
	13:27	Turkey Vulture	1	L	NE	Migrant
	13:27	Turkey Vulture	2	L	SE	Local
	13:33	Turkey Vulture	2	L	L	Local
	13:39	Turkey Vulture	1	H	N	Migrant
	13:44	Northern Harrier	1	L	NE	Migrant
	13:52	Red-tailed Hawk	2	H	NE	Migrant
	13:52	Sharp-shinned Hawk	1	H	NE	Migrant
	14:01	Turkey Vulture	11	L	L	Local
14:10	Red-tailed Hawk	1	L	L	Local	
14:26	Red-tailed Hawk	1	L	L	Local	
15:01	Turkey Vulture	1	H	NE	Migrant	
5/13/2008	09:12	Turkey Vulture	4	L	L	Local
	09:35	Red-tailed Hawk	1	L	L	Local
	09:38	Turkey Vulture	2	L	L	Local
	09:49	Northern Harrier	1	L	L	Local

**Table E-1 Raptor Survey Data for Surveys Conducted in the Ball Hill Project Area in Fall 2006, Spring 2007, and Spring 2008**

Date	Time	Common Name	Number	Height	Direction <sup>1</sup>	Local? <sup>2</sup>
	10:03	Turkey Vulture	3	L	L	Local
	10:18	Turkey Vulture	5	L	L	Local
	10:35	Turkey Vulture	6	L	L	Local
	10:56	Red-tailed Hawk	1	H	L	Local
	11:03	Turkey Vulture	3	H	W	Migrant
	11:16	Turkey Vulture	3	L	L	Local
	11:23	Turkey Vulture	11	L	L	Local
	11:27	Red-tailed Hawk	1	L	L	Local
	11:54	Turkey Vulture	1	L	L	Local
	12:10	Turkey Vulture	2	L	L	Local
	12:18	Turkey Vulture	3	L	L	Local
	12:32	Turkey Vulture	11	H	L	Local
	13:06	Red-tailed Hawk	1	L	SW	Local
	13:18	Red-tailed Hawk	2	L	L	Local
	13:18	Turkey Vulture	2	L	L	Local
	13:45	Turkey Vulture	10	L	L	Local
	14:08	Northern Harrier	1	L	L	Local
	14:14	Turkey Vulture	5	L	L	Local
	14:30	Osprey	2	H	NE	Migrant
	14:43	Turkey Vulture	4	L	L	Local
	14:57	Red-tailed Hawk	2	L	L	Local
	15:03	Red-tailed Hawk	1	L	L	Local
	15:11	American Kestrel	1	P	L	Local
	15:24	Turkey Vulture	3	L	L	Local
	15:43	American Kestrel	1	L	L	Local
	15:45	Turkey Vulture	6	L	L	Local

<sup>1</sup> Local birds do not have a direction indicated and are denoted with an L.

<sup>2</sup> Indicates whether raptors observed were thought to be migratory or local birds based on behavior and direction of movement.

Key:

H = High (>400 feet)

L = Low (<400 feet)

P = Perched

N = North

E = East

S = South

W = West

**Table E-2 Ball Hill Project Area, Migratory Survey by Date, Totals From Two Dates**

Species	5/11/2007	5/22/2007	Total
Canada Goose	27	30	57
Mallard	7	0	7
Ring-necked Pheasant	0	2	2
Ruffed Grouse	1	0	1
Wild Turkey	13	7	20
Great Blue Heron	1	0	1
Turkey Vulture	18	1	19
Osprey	1	0	1
Northern Harrier	0	1	1
Sharp-shinned Hawk	1	0	1
Broad-winged Hawk	1	0	1
Red-tailed Hawk	2	0	2
American Kestrel	1	0	1
Killdeer	4	6	10
Mourning Dove	16	18	34
Black-billed Cuckoo	1	1	2
Barred Owl	1	0	1
Ruby-throated Hummingbird	0	1	1
Red-bellied Woodpecker	6	0	6
Yellow-bellied Sapsucker	3	9	12
Downy Woodpecker	3	2	5
Hairy Woodpecker	2	1	3
Northern Flicker	7	4	11
Eastern Wood-Pewee	0	1	1
Alder Flycatcher	1	4	5
Willow Flycatcher	0	3	3
Least Flycatcher	0	3	3
Great Crested Flycatcher	0	5	5
Eastern Kingbird	5	6	11
Blue-headed Vireo	2	5	7
Warbling Vireo	1	4	5
Red-eyed Vireo	1	5	6
Blue Jay	15	8	23
American Crow	61	64	125
Common Raven	2	1	3
Tree Swallow	4	17	21
N Rough-winged Swallow	4	0	4
Cliff Swallow	1	0	1
Barn Swallow	21	31	52
Black-capped Chickadee	22	25	47
Tufted Titmouse	1	0	1
White-breasted Nuthatch	2	2	4
House Wren	4	10	14
Winter Wren	2	0	2

**Table E-2 Ball Hill Project Area, Migratory Survey by Date, Totals From Two Dates**

Species	5/11/2007	5/22/2007	Total
Eastern Bluebird	0	1	1
Veery	1	0	1
Swainson's Thrush	0	2	2
Hermit Thrush	4	1	5
Wood Thrush	7	4	11
American Robin	23	35	58
Gray Catbird	9	17	26
Northern Mockingbird	1	0	1
Cedar Waxwing	0	4	4
Blue-winged Warbler	5	2	7
Nashville Warbler	2	2	4
Yellow Warbler	35	20	55
Chestnut-sided Warbler	19	9	28
Magnolia Warbler	3	0	3
Black-thr. Blue Warbler	2	0	2
Yellow-rumped Warbler	22	2	24
Black-thr. Green Warbler	3	3	6
Blackburnian Warbler	0	2	2
Palm Warbler	1	0	1
Black-and-white Warbler	1	0	1
American Redstart	0	7	7
Ovenbird	4	3	7
Mourning Warbler	3	2	5
Common Yellowthroat	18	38	56
Hooded Warbler	13	1	14
Scarlet Tanager	2	0	2
Eastern Towhee	2	5	7
Chipping Sparrow	10	15	25
Field Sparrow	2	7	9
Savannah Sparrow	6	13	19
Song Sparrow	30	30	60
Swamp Sparrow	3	0	3
White-crowned Sparrow	3	0	3
Dark-eyed Junco	5	0	5
Northern Cardinal	12	12	24
Rose-breasted Grosbeak	3	2	5
Indigo Bunting	0	15	15
Bobolink	28	71	99
Red-winged Blackbird	154	107	261
Eastern Meadowlark	7	7	14
Common Grackle	10	34	44
Brown-headed Cowbird	3	17	20
Baltimore Oriole	21	14	35
Purple Finch	10	4	14

**Table E-2 Ball Hill Project Area, Migratory Survey by Date, Totals From Two Dates**

<b>Species</b>	<b>5/11/2007</b>	<b>5/22/2007</b>	<b>Total</b>
House Finch	0	2	<b>2</b>
American Goldfinch	35	50	<b>85</b>
<b>Total Birds:</b>	<b>787</b>	<b>837</b>	<b>1,624</b>
<b>Species Count:</b>	<b>76</b>	<b>66</b>	
<b>Total Species:</b>	<b>90</b>		

**Table E-3 Ball Hill Project Area, Migratory Bird Survey by Location, 5/11/2007**

Species	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	ZA	ZB	ZC	Total	
Canada Goose	1	0	0	0	0	2	5	7	0	0	0	0	1	4	0	2	1	1	2	0	0	1	0	0	0	0	0	0	0	27
Mallard	3	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	7
Ruffed Grouse	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Wild Turkey	1	2	1	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	1	0	0	4	1	0	0	13	
Great Blue Heron	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Turkey Vulture	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	11	0	0	0	0	0	0	0	0	0	0	0	5	18	
Osprey	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Sharp-shinned Hawk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
Broad-winged Hawk	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Red-tailed Hawk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	2		
American Kestrel	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Killdeer	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	4	
Mourning Dove	1	2	0	2	3	0	0	1	0	0	0	0	0	1	1	0	0	0	0	2	0	2	0	0	0	1	0	0	16	
Black-billed Cuckoo	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	
Barred Owl	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Red-bellied Woodpecker	2	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	6	
Yellow-bellied Sapsucker	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	3	
Downy Woodpecker	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	3	
Hairy Woodpecker	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
Northern Flicker	0	0	1	0	0	0	2	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	7	
Alder Flycatcher	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Eastern Kingbird	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	5		
Blue-headed Vireo	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2	

**Table E-3 Ball Hill Project Area, Migratory Bird Survey by Location, 5/11/2007**

Species	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	ZA	ZB	ZC	Total
Warbling Vireo	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Red-eyed Vireo	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Blue Jay	2	0	0	0	1	1	0	3	2	0	0	1	0	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	15
American Crow	3	2	2	5	4	5	0	2	0	0	2	7	0	1	2	3	0	0	1	0	3	2	3	2	7	0	4	1	61
Common Raven	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Tree Swallow	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	4
N Rough-winged Swallow	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Cliff Swallow	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Barn Swallow	1	0	0	0	0	0	0	0	0	5	1	0	0	0	0	3	2	0	2	0	2	2	0	0	0	3	0	0	21
Black-capped Chickadee	3	0	0	1	0	1	0	0	1	0	1	2	1	3	4	0	0	0	0	2	0	0	2	0	0	0	0	1	22
Tufted Titmouse	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
White-breasted Nuthatch	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2
House Wren	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	1	0	0	0	4
Winter Wren	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2
Veery	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Hermit Thrush	0	0	0	0	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	4
Wood Thrush	1	0	0	0	1	0	1	0	0	0	0	0	1	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0	7
American Robin	1	0	0	0	3	0	1	1	0	3	0	2	0	2	0	2	0	2	0	1	1	2	0	0	1	0	0	1	23
Gray Catbird	0	0	0	0	0	0	0	0	4	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	2	0	0	9
Northern Mockingbird	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Blue-winged Warbler	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	5
Nashville Warbler	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	2
Yellow Warbler	1	1	0	0	1	0	0	8	2	0	0	1	0	1	3	3	1	1	0	1	1	1	1	4	1	2	0	1	35
Chestnut-sided Warbler	1	1	0	0	0	0	0	3	1	0	0	0	2	0	1	3	4	0	0	0	2	1	0	0	0	0	0	0	19
Magnolia Warbler	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	3

**Table E-3 Ball Hill Project Area, Migratory Bird Survey by Location, 5/11/2007**

Species	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	ZA	ZB	ZC	Total
Black-thr. Blue Warbler	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2
Yellow-rumped Warbler	0	0	0	1	0	0	2	8	0	0	0	0	1	2	0	2	2	2	0	1	0	0	0	0	0	1	0	0	22
Black-thr. Green Warbler	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	3
Palm Warbler	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Black-and-white Warbler	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Ovenbird	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	4
Mourning Warbler	0	0	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Common Yellowthroat	1	1	0	0	0	1	1	1	1	1	0	2	0	0	1	0	0	2	0	0	0	0	2	2	1	1	0	0	18
Hooded Warbler	0	0	0	0	1	0	0	1	1	0	0	1	1	1	2	1	1	1	0	0	0	0	0	0	1	0	1	0	13
Scarlet Tanager	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Eastern Towhee	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Chipping Sparrow	4	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	1	10
Field Sparrow	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2
Savannah Sparrow	1	0	1	1	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Song Sparrow	0	0	2	0	1	1	2	1	1	2	3	0	2	0	0	2	0	2	1	0	2	2	1	3	0	1	0	1	30
Swamp Sparrow	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	3
White-crowned Sparrow	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Dark-eyed Junco	0	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	5
Northern Cardinal	0	1	0	1	0	0	1	0	0	0	0	1	0	0	1	0	1	0	0	0	0	0	0	0	3	0	0	0	12
Rose-breasted Grosbeak	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	3
Bobolink	0	3	2	3	0	0	4	0	0	1	7	0	0	0	0	1	0	0	0	0	1	1	3	0	2	0	0	0	28
Red-winged Blackbird	3	15	9	8	9	3	9	14	6	9	5	5	0	3	0	6	3	0	9	0	3	6	3	4	11	4	0	7	154
Eastern	0	0	0	0	0	0	0	0	0	3	2	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	7

**Table E-3 Ball Hill Project Area, Migratory Bird Survey by Location, 5/11/2007**

Species	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	ZA	ZB	ZC	Total	
Meadowlark																														
Common Grackle	0	1	2	0	0	0	0	0	0	1	0	4	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	<b>10</b>
Brown-headed Cowbird	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	1	0	0	<b>3</b>
Baltimore Oriole	0	0	0	0	0	1	3	3	0	0	1	0	4	2	0	0	0	4	0	0	0	1	0	0	0	0	1	1	<b>21</b>	
Purple Finch	0	0	0	0	5	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	3	<b>10</b>	
American Goldfinch	0	2	1	0	3	2	1	2	2	0	0	3	3	0	0	2	0	0	3	0	0	0	0	3	2	0	2	4	<b>35</b>	
<b>Total Birds:</b>	<b>36</b>	<b>33</b>	<b>23</b>	<b>24</b>	<b>42</b>	<b>24</b>	<b>37</b>	<b>73</b>	<b>21</b>	<b>29</b>	<b>23</b>	<b>33</b>	<b>24</b>	<b>32</b>	<b>23</b>	<b>46</b>	<b>25</b>	<b>22</b>	<b>18</b>	<b>14</b>	<b>15</b>	<b>26</b>	<b>18</b>	<b>27</b>	<b>34</b>	<b>20</b>	<b>12</b>	<b>33</b>	<b>787</b>	
<b>Species Count:</b>	<b>23</b>	<b>13</b>	<b>11</b>	<b>10</b>	<b>18</b>	<b>16</b>	<b>15</b>	<b>26</b>	<b>10</b>	<b>11</b>	<b>9</b>	<b>15</b>	<b>14</b>	<b>19</b>	<b>14</b>	<b>17</b>	<b>16</b>	<b>15</b>	<b>6</b>	<b>12</b>	<b>8</b>	<b>16</b>	<b>10</b>	<b>12</b>	<b>13</b>	<b>13</b>	<b>8</b>	<b>16</b>		
<b>Total Species:</b>	<b>76</b>																													

**Table E-4 Ball Hill Project Area, Migratory Bird Survey by Location, 5/22/2007**

Species	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	ZA	ZB	ZC	Total
Canada Goose	2	2	2	0	0	1	1	9	0	0	0	2	0	0	0	2	0	2	2	0	1	2	0	0	0	0	0	2	<b>30</b>
Ring-necked Pheasant	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	<b>2</b>
Wild Turkey	0	0	1	0	1	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	<b>7</b>
Turkey Vulture	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	<b>1</b>
Northern Harrier	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>1</b>
Killdeer	0	0	0	0	0	2	0	0	1	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	<b>6</b>
Mourning Dove	0	1	0	1	1	0	0	0	0	0	3	0	1	0	0	0	0	0	2	0	0	5	0	0	3	1	0	0	<b>18</b>
Black-billed Cuckoo	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	<b>1</b>
Ruby-thrted Hummingbird	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	<b>1</b>
Yellow-bellied Sapsucker	1	0	1	0	1	0	0	0	1	0	1	0	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	<b>9</b>
Downy Woodpecker	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	<b>2</b>
Hairy Woodpecker	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>1</b>
Northern Flicker	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	1	0	0	0	<b>4</b>
Eastern Wood-Pewee	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>1</b>
Alder Flycatcher	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	<b>4</b>
Willow Flycatcher	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	<b>3</b>
Least Flycatcher	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	<b>3</b>
Great Crested Flycatcher	1	1	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	<b>5</b>
Eastern Kingbird	0	0	0	0	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	<b>6</b>

**Table E-4 Ball Hill Project Area, Migratory Bird Survey by Location, 5/22/2007**

Species	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	ZA	ZB	ZC	Total
Blue-headed Vireo	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	1	0	<b>5</b>
Warbling Vireo	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	1	0	0	0	<b>4</b>
Red-eyed Vireo	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	2	0	<b>5</b>
Blue Jay	0	0	0	2	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0	0	0	0	1	<b>8</b>
American Crow	2	1	2	3	3	6	4	1	6	1	3	3	0	4	2	2	2	1	1	0	2	1	1	0	6	2	3	2	<b>64</b>
Common Raven	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	<b>1</b>
Tree Swallow	2	3	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	1	0	1	0	2	4	0	0	0	0	<b>17</b>
Barn Swallow	2	1	2	0	0	2	1	0	0	5	2	0	0	0	0	4	0	0	0	0	0	6	2	2	1	0	0	1	<b>31</b>
Black-capped Chickadee	1	0	0	0	0	0	0	5	0	2	0	1	2	3	0	1	2	2	0	2	1	0	1	0	1	0	1	0	<b>25</b>
White-breasted Nuthatch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	<b>2</b>
House Wren	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	1	0	1	0	1	0	1	0	0	0	2	0	<b>10</b>
Eastern Bluebird	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>1</b>
Swainson's Thrush	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>2</b>
Hermit Thrush	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	<b>1</b>
Wood Thrush	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	<b>4</b>
American Robin	5	1	0	1	2	0	1	2	2	2	2	2	2	1	0	1	1	1	2	2	1	2	0	0	1	0	1	0	<b>35</b>
Gray Catbird	0	0	0	0	1	0	0	2	0	0	0	1	1	0	2	0	1	0	0	1	1	0	2	1	1	2	0	1	<b>17</b>
Cedar Waxwing	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0	0	<b>4</b>
Blue-winged Warbler	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	<b>2</b>
Nashville Warbler	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	<b>2</b>
Yellow Warbler	0	0	1	0	1	1	2	1	1	0	0	1	1	0	1	1	1	1	0	0	2	0	1	1	2	1	0	0	<b>20</b>
Chestnut-sided Warbler	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	2	0	0	0	0	0	2	0	0	1	0	<b>9</b>

**Table E-4 Ball Hill Project Area, Migratory Bird Survey by Location, 5/22/2007**

Species	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	ZA	ZB	ZC	Total	
Yellow-rumped Warbler	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Black-thr. Green Warbler	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	1	3
Blackburnian Warbler	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
American Redstart	0	0	0	1	0	0	0	1	1	0	0	0	0	1	0	0	1	0	0	1	0	0	0	0	1	0	0	0	7	
Ovenbird	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	3	
Mourning Warbler	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	
Common Yellowthroat	2	2	1	2	2	0	1	2	2	0	0	2	2	1	2	0	0	2	0	0	2	2	2	2	1	3	1	2	38	
Hooded Warbler	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Eastern Towhee	1	0	0	0	0	0	0	0	2	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
Chipping Sparrow	3	1	1	0	1	1	1	1	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	0	1	0	1	15	
Field Sparrow	0	0	0	0	0	0	1	0	0	0	0	1	0	0	1	0	2	0	0	0	0	0	0	0	0	1	0	1	7	
Savannah Sparrow	0	0	2	0	1	2	0	0	0	0	1	2	0	0	0	1	0	0	2	0	0	2	0	0	0	0	0	0	13	
Song Sparrow	1	1	0	0	1	1	2	0	2	1	0	3	0	1	0	2	1	1	2	0	2	0	3	2	2	1	0	1	30	
Northern Cardinal	1	0	0	0	1	0	0	1	0	1	0	1	1	0	2	1	1	0	0	0	0	0	0	0	0	0	0	2	12	
Rose-breasted Grosbeak	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	
Indigo Bunting	0	1	0	0	0	1	0	0	0	1	0	0	1	0	0	1	2	1	0	1	2	0	1	1	0	0	1	1	15	
Bobolink	1	16	4	4	1	4	4	0	0	7	9	2	0	1	0	0	1	0	6	0	1	3	2	3	0	2	0	0	71	
Red-winged Blackbird	2	5	6	6	7	4	7	6	1	11	10	5	0	0	0	5	0	2	8	0	0	2	5	2	11	2	0	0	107	
Eastern Meadowlark	0	2	1	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	7	
Common Grackle	1	0	5	0	0	3	1	0	1	5	2	2	0	0	0	2	0	0	1	0	0	8	0	0	3	0	0	0	34	

**Table E-4 Ball Hill Project Area, Migratory Bird Survey by Location, 5/22/2007**

Species	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	ZA	ZB	ZC	Total
Brown-headed Cowbird	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	2	0	0	0	0	0	1	1	2	0	6	<b>17</b>
Baltimore Oriole	0	0	0	0	1	0	0	1	0	0	1	0	0	0	0	2	0	2	1	1	1	1	1	1	0	1	0	0	<b>14</b>
Purple Finch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	<b>4</b>
House Finch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	<b>2</b>
American Goldfinch	0	0	5	3	1	0	0	0	2	3	4	1	0	2	3	0	5	3	1	1	2	0	0	4	3	3	4	0	<b>50</b>
<b>Total Birds:</b>	<b>32</b>	<b>40</b>	<b>35</b>	<b>25</b>	<b>31</b>	<b>28</b>	<b>32</b>	<b>37</b>	<b>27</b>	<b>43</b>	<b>39</b>	<b>33</b>	<b>21</b>	<b>18</b>	<b>17</b>	<b>38</b>	<b>25</b>	<b>30</b>	<b>31</b>	<b>15</b>	<b>23</b>	<b>42</b>	<b>28</b>	<b>31</b>	<b>44</b>	<b>26</b>	<b>21</b>	<b>25</b>	<b>837</b>
<b>Species Count:</b>	<b>20</b>	<b>16</b>	<b>15</b>	<b>11</b>	<b>20</b>	<b>12</b>	<b>18</b>	<b>16</b>	<b>17</b>	<b>13</b>	<b>12</b>	<b>18</b>	<b>15</b>	<b>12</b>	<b>11</b>	<b>22</b>	<b>17</b>	<b>20</b>	<b>14</b>	<b>12</b>	<b>16</b>	<b>15</b>	<b>17</b>	<b>18</b>	<b>21</b>	<b>16</b>	<b>13</b>	<b>16</b>	
<b>Total Species:</b>	<b>66</b>																												

**Table E-5 Ball Hill Project Area, Migratory Survey by Date, 2008**

<b>Species</b>	<b>5/6/2008</b>	<b>5/16/2008</b>	<b>Total</b>
Canada Goose	27	25	52
Mallard	1	1	2
Wild Turkey	5	6	11
Great Blue Heron	0	1	1
Turkey Vulture	2	0	2
Red-shouldered Hawk	1	0	1
Red-tailed Hawk	0	1	1
American Kestrel	2	2	4
Killdeer	5	4	9
Mourning Dove	14	13	27
Ruby-throated Hummingbird	0	1	1
Red-bellied Woodpecker	1	2	3
Yellow-bellied Sapsucker	8	6	14
Downy Woodpecker	2	5	7
Hairy Woodpecker	1	1	2
Northern Flicker	4	12	16
Least Flycatcher	2	1	3
Eastern Phoebe	0	1	1
Great Crested Flycatcher	4	6	10
Eastern Kingbird	0	10	10
Blue-headed Vireo	2	1	3
Warbling Vireo	6	4	10
Red-eyed Vireo	0	7	7
Blue Jay	19	31	50
American Crow	48	91	139
Tree Swallow	3	10	13
Barn Swallow	17	22	39
Black-capped Chickadee	1	10	11
Red-breasted Nuthatch	0	3	3
White-breasted Nuthatch	1	3	4
House Wren	14	10	24
Winter Wren	2	2	4
Ruby-crowned Kinglet	0	1	1
Eastern Bluebird	1	4	5
Veery	0	2	2
Wood Thrush	10	11	21
American Robin	58	77	135
Gray Catbird	8	5	13
Brown Thrasher	5	5	10
American Pipit	1	0	1
Blue-winged Warbler	4	2	6
Nashville Warbler	4	1	5
Yellow Warbler	23	19	42
Chestnut-sided Warbler	4	2	6

**Table E-5 Ball Hill Project Area, Migratory Survey by Date, 2008**

<b>Species</b>	<b>5/6/2008</b>	<b>5/16/2008</b>	<b>Total</b>
Magnolia Warbler	0	2	2
Black-thr. Blue Warbler	0	2	2
Yellow-rumped Warbler	3	4	7
Black-thr. Green Warbler	2	5	7
Blackburnian Warbler	1	2	3
Bay-breasted Warbler	0	1	1
Black-and-white Warbler	0	1	1
American Redstart	1	3	4
Ovenbird	4	8	12
Common Yellowthroat	6	16	22
Hooded Warbler	1	3	4
Scarlet Tanager	0	3	3
Eastern Towhee	4	2	6
Chipping Sparrow	16	24	40
Field Sparrow	12	8	20
Savannah Sparrow	8	16	24
Song Sparrow	38	55	93
Swamp Sparrow	5	4	9
White-crowned Sparrow	1	3	4
Northern Cardinal	11	7	18
Rose-breasted Grosbeak	7	5	12
Indigo Bunting	1	3	4
Bobolink	48	42	90
Red-winged Blackbird	126	113	239
Eastern Meadowlark	16	12	28
Common Grackle	21	15	36
Brown-headed Cowbird	18	24	42
Baltimore Oriole	9	8	17
Purple Finch	1	6	7
House Finch	3	3	6
American Goldfinch	45	64	109
<b>Total Birds:</b>	<b>718</b>	<b>885</b>	<b>1603</b>
<b>Species Count:</b>	<b>61</b>	<b>72</b>	
<b>Total Species:</b>	<b>75</b>		

**Table E-6 Ball Hill Project Area, Migratory Bird Survey by Location, 5/6/2008**

Species	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	ZA	ZB	ZC	ZD	ZE	ZF	ZG	ZH	Total
Canada Goose	0	0	0	2	2	0	0	4	2	0	2	0	0	2	0	0	2	1	2	0	2	1	0	0	0	0	0	0	2	0	3	0	0	27
Mallard	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Wild Turkey	0	0	0	0	0	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Turkey Vulture	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Red-shouldered Hawk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
American Kestrel	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Killdeer	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	5
Mourning Dove	2	3	0	0	2	0	1	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	14
Red-bellied Woodpecker	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Yellow-bellied Sapsucker	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	0	8
Downy Woodpecker	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Hairy Woodpecker	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Northern Flicker	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	4
Least Flycatcher	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Great Crested Flycatcher	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Blue-headed Vireo	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Warbling Vireo	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	6
Blue Jay	0	2	1	0	0	0	0	0	0	0	2	0	1	0	1	0	0	0	0	0	4	0	3	1	0	0	1	1	0	0	0	2	0	19
American Crow	0	5	3	0	3	3	4	1	2	2	1	0	0	0	2	2	0	3	1	0	0	4	4	1	1	0	0	1	0	3	2	0	0	48
Tree Swallow	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	0	0	0	0	0	0	0	0	0	3
Barn Swallow	0	2	1	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	4	0	2	1	0	0	0	3	0	0	0	0	17
Black-capped Chickadee	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
White-breasted Nuthatch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
House Wren	0	0	0	0	0	0	0	0	1	0	0	0	2	2	2	1	0	1	0	0	0	0	0	0	0	2	0	1	0	0	1	1	0	14
Winter Wren	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
Eastern Bluebird	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Wood Thrush	0	0	0	0	1	1	2	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	10

**Table E-6 Ball Hill Project Area, Migratory Bird Survey by Location, 5/6/2008**

Species	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	ZA	ZB	ZC	ZD	ZE	ZF	ZG	ZH	Total	
American Robin	3	2	1	3	4	1	4	2	3	3	4	3	0	2	0	3	2	4	0	0	0	2	0	0	3	4	0	0	1	0	1	3	0	58	
Gray Catbird	0	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	2	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Brown Thrasher	1	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	5
American Pipit	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Blue-winged Warbler	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	4
Nashville Warbler	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	4	
Yellow Warbler	0	0	0	0	1	0	2	2	2	0	1	1	2	0	1	0	0	1	0	0	2	1	0	2	0	0	0	1	0	1	1	2	0	23	
Chestnut-sided Warbler	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
Yellow-rumped Warbler	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
Black-thr. Green Warbler	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
Blackburnian Warbler	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
American Redstart	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Ovenbird	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
Common Yellowthroat	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	0	6		
Hooded Warbler	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Eastern Towhee	0	0	0	0	1	0	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
Chipping Sparrow	4	0	0	0	0	0	2	1	0	0	2	0	0	0	0	0	0	0	1	0	0	1	0	0	2	0	0	0	0	0	3	0	0	16	
Field Sparrow	1	2	0	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	1	1	1	0	12		
Savannah Sparrow	0	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	3	0	0	0	8	
Song Sparrow	0	2	0	2	2	0	1	4	1	2	0	1	0	1	0	1	0	2	1	0	0	1	1	2	3	2	0	4	0	1	2	2	0	38	
Swamp Sparrow	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
White-crowned Sparrow	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Northern Cardinal	1	2	0	1	0	1	2	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	11	
Rose-breasted Grosbeak	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	0	0	0	0	1	0	0	2	0	0	0	1	0	7	
Indigo Bunting	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	

**Table E-6 Ball Hill Project Area, Migratory Bird Survey by Location, 5/6/2008**

Species	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	ZA	ZB	ZC	ZD	ZE	ZF	ZG	ZH	Total
Bobolink	3	11	3	3	0	0	1	0	0	2	1	2	1	0	0	0	0	0	3	0	0	0	0	5	0	0	0	0	3	8	0	2	0	48
Red-winged Blackbird	0	5	8	5	9	1	6	7	0	9	7	9	0	0	0	0	0	6	7	0	0	5	6	6	4	6	0	0	6	8	2	4	0	126
Eastern Meadowlark	0	4	2	0	0	0	0	0	0	3	0	3	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	16
Common Grackle	0	0	0	0	0	0	0	0	0	4	4	2	0	1	0	0	0	0	0	0	0	4	0	0	3	0	0	0	0	0	0	3	0	21
Brown-headed Cowbird	0	0	0	0	2	0	0	0	2	2	0	0	3	1	0	0	3	0	0	1	0	0	0	3	0	0	0	1	0	0	0	0	0	18
Baltimore Oriole	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0	1	1	1	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	9
Purple Finch	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
House Finch	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	3
American Goldfinch	3	0	1	0	2	3	0	0	0	1	1	0	1	0	1	2	1	3	0	0	1	1	3	4	3	4	2	1	3	2	2	0	0	45
<b>Total Birds:</b>	<b>22</b>	<b>45</b>	<b>24</b>	<b>18</b>	<b>39</b>	<b>16</b>	<b>29</b>	<b>29</b>	<b>17</b>	<b>31</b>	<b>31</b>	<b>24</b>	<b>21</b>	<b>16</b>	<b>13</b>	<b>17</b>	<b>18</b>	<b>25</b>	<b>21</b>	<b>7</b>	<b>12</b>	<b>26</b>	<b>25</b>	<b>34</b>	<b>25</b>	<b>19</b>	<b>6</b>	<b>13</b>	<b>18</b>	<b>29</b>	<b>22</b>	<b>24</b>	<b>2</b>	<b>718</b>
<b>Species Count:</b>	<b>12</b>	<b>16</b>	<b>12</b>	<b>8</b>	<b>19</b>	<b>9</b>	<b>13</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>15</b>	<b>9</b>	<b>15</b>	<b>11</b>	<b>10</b>	<b>12</b>	<b>12</b>	<b>12</b>	<b>10</b>	<b>6</b>	<b>5</b>	<b>12</b>	<b>12</b>	<b>15</b>	<b>11</b>	<b>6</b>	<b>5</b>	<b>9</b>	<b>6</b>	<b>9</b>	<b>14</b>	<b>13</b>	<b>1</b>	
<b>Total Species:</b>	<b>61</b>																																	

**Table E-7 Ball Hill Project Area, Migratory Bird Survey by Location, 5/16/2008**

Species	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	ZA	ZB	ZC	ZD	ZE	ZF	ZG	ZH	Total	
Canada Goose	0	0	2	3	3	0	0	2	1	0	0	0	0	2	0	0	0	5	3	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	25
Mallard	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Wild Turkey	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	6	
Great Blue Heron	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Red-tailed Hawk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	
American Kestrel	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
Killdeer	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	4	
Mourning Dove	1	2	4	0	1	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	13	
Ruby-throated Hummingbird	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Red-bellied Woodpecker	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
Yellow-bellied Sapsucker	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	6
Downy Woodpecker	0	1	0	0	0	0	0	0	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	5
Hairy Woodpecker	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Northern Flicker	1	1	0	0	1	1	0	0	0	1	0	0	0	0	0	2	1	1	0	0	0	1	0	0	0	0	1	0	0	0	0	1	0	0	12
Least Flycatcher	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Eastern Phoebe	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Great Crested Flycatcher	1	0	0	0	0	2	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	6
Eastern Kingbird	0	0	0	0	2	0	0	1	1	0	2	0	0	0	0	0	0	2	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	10
Blue-headed Vireo	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Warbling Vireo	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	4
Red-eyed Vireo	0	0	0	1	0	0	0	0	0	0	1	0	2	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Blue Jay	2	1	0	0	0	3	1	0	2	0	0	1	1	2	3	0	0	0	0	0	3	4	0	3	0	0	0	2	0	0	0	3	0	31	
American Crow	1	3	5	2	4	5	3	2	2	4	5	0	3	0	3	4	0	5	4	0	4	4	5	3	2	2	1	4	0	5	3	3	0	91	
Tree Swallow	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2	0	10	
Barn Swallow	0	3	2	0	1	0	2	0	1	0	2	1	2	0	0	0	0	0	0	0	1	3	1	0	0	1	0	0	0	2	0	0	0	22	
Black-capped Chickadee	0	0	0	0	0	0	0	0	0	0	2	0	0	2	1	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	0	1	0	10	
Red-breasted Nuthatch	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3
White-breasted Nuthatch	0	0	0	0	1	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
House Wren	0	1	0	0	0	1	0	1	0	0	1	1	0	0	1	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	10	
Winter Wren	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2
Ruby-crowned Kinglet	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Eastern Bluebird	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	4
Veery	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Wood Thrush	0	0	0	0	1	1	0	1	0	0	0	0	1	1	1	1	0	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	1	0	11
American Robin	2	4	3	4	5	3	3	4	2	5	3	2	1	4	2	4	2	4	0	1	2	1	0	1	2	3	1	1	3	1	2	2	0	77	
Gray Catbird	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	5
Brown Thrasher	1	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5

**Table E-7 Ball Hill Project Area, Migratory Bird Survey by Location, 5/16/2008**

Species	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	ZA	ZB	ZC	ZD	ZE	ZF	ZG	ZH	Total		
Blue-winged Warbler	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2		
Nashville Warbler	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Yellow Warbler	0	0	1	0	0	0	2	1	1	0	2	1	2	0	2	1	0	2	0	0	1	0	0	0	0	0	0	1	1	0	1	0	0	19		
Chestnut-sided Warbler	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2		
Magnolia Warbler	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2		
Black-thr. Blue Warbler	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2		
Yellow-rumped Warbler	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4		
Black-thr. Green Warbler	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	5		
Blackburnian Warbler	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2		
Bay-breasted Warbler	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
Black-and-white Warbler	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
American Redstart	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	3		
Ovenbird	0	0	1	0	0	1	0	0	0	0	0	0	0	1	1	0	1	0	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0	8		
Common Yellowthroat	0	1	1	0	2	0	0	2	1	0	0	0	1	2	0	2	0	0	0	0	1	0	1	2	0	0	0	0	0	0	0	0	0	16		
Hooded Warbler	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	3		
Scarlet Tanager	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	3		
Eastern Towhee	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2		
Chipping Sparrow	1	2	1	1	2	1	1	0	1	0	1	1	1	0	0	0	0	1	2	0	0	0	0	0	2	0	0	2	0	0	2	2	0	24		
Field Sparrow	0	1	0	1	0	0	0	0	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	8		
Savannah Sparrow	3	0	3	0	1	1	1	0	0	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	16		
Song Sparrow	2	1	2	3	3	1	3	4	1	2	3	2	2	0	2	1	1	2	2	0	1	2	1	1	2	1	0	3	0	3	3	1	0	55		
Swamp Sparrow	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4		
White-crowned Sparrow	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3		
Northern Cardinal	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	1	0	7		
Rose-breasted Grosbeak	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	5		
Indigo Bunting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	3		
Bobolink	2	6	4	2	2	0	3	0	0	6	0	4	0	0	0	0	0	0	2	0	0	0	0	3	0	0	0	0	2	5	0	1	0	42		
Red-winged Blackbird	7	5	6	7	6	3	6	5	3	7	3	7	1	0	0	3	0	3	4	0	0	3	4	4	4	4	0	0	4	5	4	5	0	113		
Eastern Meadowlark	2	2	1	2	0	0	1	0	0	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	12		
Common Grackle	0	0	0	0	2	3	0	0	2	0	1	0	2	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	15		
Brown-headed Cowbird	0	0	0	3	0	0	0	0	0	4	1	2	0	0	0	0	0	3	1	0	0	0	2	1	2	0	3	0	0	0	0	2	0	24		
Baltimore Oriole	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	2	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1	0	8		
Purple Finch	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	6		
House Finch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	0	3		
American Goldfinch	2	0	5	1	2	5	1	0	1	3	3	2	0	2	3	0	4	6	2	0	2	0	4	4	0	2	1	0	0	5	4	0	0	64		
<b>Total Birds:</b>	<b>32</b>	<b>36</b>	<b>44</b>	<b>34</b>	<b>44</b>	<b>37</b>	<b>30</b>	<b>29</b>	<b>24</b>	<b>37</b>	<b>36</b>	<b>30</b>	<b>26</b>	<b>23</b>	<b>26</b>	<b>32</b>	<b>19</b>	<b>41</b>	<b>28</b>	<b>10</b>	<b>19</b>	<b>19</b>	<b>19</b>	<b>24</b>	<b>22</b>	<b>14</b>	<b>14</b>	<b>18</b>	<b>13</b>	<b>33</b>	<b>29</b>	<b>36</b>	<b>7</b>	<b>885</b>		
<b>Species Count:</b>	<b>17</b>	<b>17</b>	<b>18</b>	<b>16</b>	<b>22</b>	<b>20</b>	<b>15</b>	<b>13</b>	<b>17</b>	<b>12</b>	<b>20</b>	<b>17</b>	<b>19</b>	<b>15</b>	<b>16</b>	<b>20</b>	<b>14</b>	<b>17</b>	<b>16</b>	<b>9</b>	<b>12</b>	<b>8</b>	<b>8</b>	<b>11</b>	<b>13</b>	<b>7</b>	<b>11</b>	<b>10</b>	<b>7</b>	<b>12</b>	<b>14</b>	<b>22</b>	<b>6</b>			
<b>Total Species:</b>	<b>72</b>																																			

**Table E-8 Ball Hill Project Area, Breeding Bird Survey by Date**

Species	6/11/2007	6/26/2007	Total
Mallard	2	0	2
Wild Turkey	0	2	2
Red-tailed Hawk	3	2	5
Killdeer	3	3	6
Ring-billed Gull	0	1	1
Mourning Dove	9	15	24
Black-billed Cuckoo	1	1	2
Yellow-billed Cuckoo	1	3	4
Yellow-bellied Sapsucker	4	6	10
Downy Woodpecker	1	1	2
Hairy Woodpecker	1	0	1
Northern Flicker	2	1	3
Pileated Woodpecker	1	0	1
Eastern Wood-Pewee	1	6	7
Acadian Flycatcher	1	1	2
Alder Flycatcher	3	2	5
Willow Flycatcher	4	2	6
Least Flycatcher	1	0	1
Eastern Phoebe	0	1	1
Great Crested Flycatcher	1	1	2
Eastern Kingbird	0	3	3
Blue-headed Vireo	3	4	7
Warbling Vireo	2	2	4
Red-eyed Vireo	5	3	8
Blue Jay	4	4	8
American Crow	19	22	41
Tree Swallow	1	2	3
Barn Swallow	10	6	16
Black-capped Chickadee	3	3	6
Red-breasted Nuthatch	0	1	1
White-breasted Nuthatch	2	0	2
House Wren	3	8	11
Golden-crowned Kinglet	0	2	2
Eastern Bluebird	2	0	2
Veery	0	1	1
Wood Thrush	1	2	3
American Robin	2	9	11
Gray Catbird	3	7	10
Cedar Waxwing	5	13	18
Blue-winged Warbler	1	2	3
Yellow Warbler	5	4	9
Chestnut-sided Warbler	6	5	11
Magnolia Warbler	2	1	3
Black-thr. Blue Warbler	0	1	1

**Table E-8 Ball Hill Project Area, Breeding Bird Survey by Date**

<b>Species</b>	<b>6/11/2007</b>	<b>6/26/2007</b>	<b>Total</b>
Black-thr. Green Warbler	1	4	<b>5</b>
Black-and-white Warbler	0	1	<b>1</b>
American Redstart	2	2	<b>4</b>
Ovenbird	1	2	<b>3</b>
Mourning Warbler	1	3	<b>4</b>
Common Yellowthroat	18	16	<b>34</b>
Hooded Warbler	1	2	<b>3</b>
Scarlet Tanager	3	3	<b>6</b>
Eastern Towhee	0	3	<b>3</b>
Chipping Sparrow	3	9	<b>12</b>
Field Sparrow	6	6	<b>12</b>
Savannah Sparrow	12	22	<b>34</b>
Grasshopper Sparrow	1	0	<b>1</b>
Song Sparrow	9	15	<b>24</b>
Northern Cardinal	3	3	<b>6</b>
Rose-breasted Grosbeak	1	0	<b>1</b>
Indigo Bunting	9	12	<b>21</b>
Bobolink	22	27	<b>49</b>
Red-winged Blackbird	17	24	<b>41</b>
Eastern Meadowlark	2	7	<b>9</b>
Common Grackle	0	5	<b>5</b>
Brown-headed Cowbird	0	1	<b>1</b>
Baltimore Oriole	1	1	<b>2</b>
American Goldfinch	19	38	<b>57</b>
<b>Total Birds:</b>	<b>250</b>	<b>359</b>	<b>609</b>
<b>Species Count:</b>	<b>56</b>	<b>60</b>	
<b>Total Species:</b>	<b>68</b>		

**Table E-9 Ball Hill Project Area, Breeding Bird Survey by Location, 6/11/2007**

Species	A	B	C	D	E	F	G	H	I	J	K	L	M	Total
Mallard	0	0	0	0	0	0	0	0	2	0	0	0	0	2
Red-tailed Hawk	0	1	0	0	0	0	0	0	1	0	0	0	1	3
Killdeer	0	0	0	0	0	0	0	0	0	0	0	0	3	3
Mourning Dove	0	0	0	1	1	2	1	3	0	0	1	0	0	9
Black-billed Cuckoo	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Yellow-billed Cuckoo	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Yellow-bellied Sapsucker	0	1	0	1	1	0	0	0	0	0	0	0	1	4
Downy Woodpecker	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Hairy Woodpecker	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Northern Flicker	0	0	0	0	0	0	0	0	1	0	0	0	1	2
Pileated Woodpecker	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Eastern Wood-Pewee	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Acadian Flycatcher	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Alder Flycatcher	0	2	0	0	0	0	0	0	1	0	0	0	0	3
Willow Flycatcher	0	0	0	0	0	2	0	1	0	0	1	0	0	4
Least Flycatcher	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Great Crested Flycatcher	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Blue-headed Vireo	1	0	0	0	0	0	0	0	0	1	0	1	0	3
Warbling Vireo	0	0	0	0	0	0	0	0	0	0	0	0	2	2
Red-eyed Vireo	0	0	0	1	4	0	0	0	0	0	0	0	0	5
Blue Jay	0	0	0	0	0	1	0	0	1	2	0	0	0	4
American Crow	0	2	1	3	2	4	0	2	1	1	1	0	2	19
Tree Swallow	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Barn Swallow	0	0	6	0	0	0	0	0	4	0	0	0	0	10
Black-capped Chickadee	0	1	0	0	0	0	0	0	0	0	0	1	1	3
White-breasted Nuthatch	0	0	0	0	0	0	0	0	0	2	0	0	0	2
House Wren	0	0	1	0	0	0	0	0	0	0	0	0	2	3
Eastern Bluebird	0	1	0	0	0	0	0	0	1	0	0	0	0	2
Wood Thrush	0	0	0	0	0	0	1	0	0	0	0	0	0	1
American Robin	0	0	1	1	0	0	0	0	0	0	0	0	0	2
Gray Catbird	0	0	0	0	0	0	0	1	1	0	0	0	1	3
Cedar Waxwing	0	0	0	0	0	0	0	0	0	0	1	0	4	5
Blue-winged Warbler	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Yellow Warbler	1	1	0	0	0	1	1	0	1	0	0	0	0	5
Chestnut-sided Warbler	0	0	0	1	2	0	0	1	1	0	0	1	0	6
Magnolia Warbler	0	0	0	1	0	0	0	0	0	1	0	0	0	2
Black-thr. Green Warbler	0	0	0	0	0	0	0	0	0	1	0	0	0	1
American Redstart	0	0	0	0	0	0	0	0	0	1	0	1	0	2
Ovenbird	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Mourning Warbler	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Common Yellowthroat	2	2	1	0	2	3	2	2	2	0	1	0	1	18
Hooded Warbler	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Scarlet Tanager	0	0	0	1	1	0	0	0	0	1	0	0	0	3
Chipping Sparrow	0	0	0	1	0	0	0	0	1	0	0	0	1	3
Field Sparrow	4	1	0	0	0	0	0	0	1	0	0	0	0	6

**Table E-9 Ball Hill Project Area, Breeding Bird Survey by Location, 6/11/2007**

<b>Species</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>I</b>	<b>J</b>	<b>K</b>	<b>L</b>	<b>M</b>	<b>Total</b>
Savannah Sparrow	0	0	0	0	0	2	3	2	0	0	1	0	4	<b>12</b>
Grasshopper Sparrow	0	0	0	0	0	0	0	0	0	0	1	0	0	<b>1</b>
Song Sparrow	1	2	0	0	0	0	2	1	1	0	1	0	1	<b>9</b>
Northern Cardinal	0	0	2	0	0	0	0	1	0	0	0	0	0	<b>3</b>
Rose-breasted Grosbeak	0	0	0	0	0	0	0	0	0	0	0	0	1	<b>1</b>
Indigo Bunting	1	1	1	1	0	0	1	0	2	0	0	2	0	<b>9</b>
Bobolink	0	0	2	0	0	5	3	8	0	0	4	0	0	<b>22</b>
Red-winged Blackbird	0	0	4	0	1	5	3	0	0	0	4	0	0	<b>17</b>
Eastern Meadowlark	0	0	2	0	0	0	0	0	0	0	0	0	0	<b>2</b>
Baltimore Oriole	0	0	0	0	0	0	0	0	0	0	0	0	1	<b>1</b>
American Goldfinch	2	9	0	5	0	0	0	0	0	0	0	0	3	<b>19</b>
<b>Total Birds:</b>	<b>13</b>	<b>25</b>	<b>21</b>	<b>18</b>	<b>17</b>	<b>26</b>	<b>17</b>	<b>22</b>	<b>22</b>	<b>13</b>	<b>18</b>	<b>7</b>	<b>31</b>	<b>250</b>
<b>Species Count:</b>	<b>8</b>	<b>13</b>	<b>10</b>	<b>12</b>	<b>11</b>	<b>10</b>	<b>9</b>	<b>10</b>	<b>16</b>	<b>11</b>	<b>12</b>	<b>6</b>	<b>18</b>	
<b>Total Species:</b>	<b>56</b>													

**Table E-10 Ball Hill Project Area, Breeding Bird Survey by Location, 6/26/2007**

<b>Species</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>I</b>	<b>J</b>	<b>K</b>	<b>L</b>	<b>M</b>	<b>Total</b>
Wild Turkey	0	0	0	1	0	0	0	0	0	0	1	0	0	<b>2</b>
Red-tailed Hawk	0	0	0	0	0	0	0	0	0	0	2	0	0	<b>2</b>
Killdeer	0	0	0	0	0	0	0	0	0	0	2	0	1	<b>3</b>
Ring-billed Gull	0	0	0	0	1	0	0	0	0	0	0	0	0	<b>1</b>
Mourning Dove	0	0	1	1	2	3	1	2	1	0	3	0	1	<b>15</b>
Black-billed Cuckoo	1	0	0	0	0	0	0	0	0	0	0	0	0	<b>1</b>
Yellow-billed Cuckoo	0	0	0	0	0	1	0	1	0	0	0	1	0	<b>3</b>
Yellow-bellied Sapsucker	0	0	0	0	1	1	0	2	0	0	1	1	0	<b>6</b>
Downy Woodpecker	0	1	0	0	0	0	0	0	0	0	0	0	0	<b>1</b>
Northern Flicker	0	0	1	0	0	0	0	0	0	0	0	0	0	<b>1</b>
Eastern Wood-Pewee	0	0	0	1	2	1	0	0	0	0	0	2	0	<b>6</b>
Acadian Flycatcher	0	0	0	0	0	0	0	0	0	1	0	0	0	<b>1</b>
Alder Flycatcher	0	1	0	0	0	0	0	0	0	0	1	0	0	<b>2</b>
Willow Flycatcher	0	0	0	0	0	0	0	1	1	0	0	0	0	<b>2</b>
Eastern Phoebe	0	0	0	0	0	0	1	0	0	0	0	0	0	<b>1</b>
Great Crested Flycatcher	0	0	0	1	0	0	0	0	0	0	0	0	0	<b>1</b>
Eastern Kingbird	0	0	0	0	0	0	0	1	0	0	0	0	2	<b>3</b>
Blue-headed Vireo	0	0	0	0	2	0	0	0	0	1	0	1	0	<b>4</b>
Warbling Vireo	0	0	0	0	0	0	0	0	0	0	1	0	1	<b>2</b>
Red-eyed Vireo	0	0	1	2	0	0	0	0	0	0	0	0	0	<b>3</b>
Blue Jay	0	0	1	0	1	0	0	1	0	0	1	0	0	<b>4</b>
American Crow	0	2	3	2	3	4	1	2	0	0	2	1	2	<b>22</b>
Tree Swallow	0	0	0	0	0	0	0	0	2	0	0	0	0	<b>2</b>
Barn Swallow	0	0	2	0	0	2	0	2	0	0	0	0	0	<b>6</b>
Black-capped Chickadee	1	0	0	0	0	0	0	0	0	1	1	0	0	<b>3</b>
Red-breasted Nuthatch	0	0	0	0	0	0	0	0	0	1	0	0	0	<b>1</b>
House Wren	0	1	0	1	0	1	0	1	1	0	1	0	2	<b>8</b>
Golden-crowned Kinglet	0	0	0	0	0	0	0	0	0	2	0	0	0	<b>2</b>
Veery	0	0	0	0	0	0	0	0	0	1	0	0	0	<b>1</b>
Wood Thrush	0	0	0	0	0	0	2	0	0	0	0	0	0	<b>2</b>
American Robin	1	2	0	1	0	0	1	0	0	1	2	1	0	<b>9</b>
Gray Catbird	2	0	1	0	1	0	0	1	1	0	0	0	1	<b>7</b>
Cedar Waxwing	1	3	2	3	2	0	0	1	0	0	0	0	1	<b>13</b>
Blue-winged Warbler	1	1	0	0	0	0	0	0	0	0	0	0	0	<b>2</b>
Yellow Warbler	0	0	0	0	0	0	0	1	0	0	2	0	1	<b>4</b>
Chestnut-sided Warbler	0	0	0	0	3	0	1	0	1	0	0	0	0	<b>5</b>
Magnolia Warbler	0	0	0	0	0	0	0	0	0	1	0	0	0	<b>1</b>
Black-thr. Blue Warbler	0	0	0	1	0	0	0	0	0	0	0	0	0	<b>1</b>
Black-thr. Green Warbler	0	0	0	0	1	0	0	0	0	3	0	0	0	<b>4</b>
Black-and-white Warbler	0	0	0	0	1	0	0	0	0	0	0	0	0	<b>1</b>
American Redstart	0	0	0	1	0	0	0	0	0	0	0	1	0	<b>2</b>
Ovenbird	0	0	0	1	0	0	0	0	0	0	0	1	0	<b>2</b>
Mourning Warbler	0	0	0	0	0	0	1	0	0	0	0	2	0	<b>3</b>
Common Yellowthroat	1	1	1	1	1	2	3	3	1	0	2	0	0	<b>16</b>

**Table E-10 Ball Hill Project Area, Breeding Bird Survey by Location, 6/26/2007**

<b>Species</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>I</b>	<b>J</b>	<b>K</b>	<b>L</b>	<b>M</b>	<b>Total</b>
Hooded Warbler	0	0	0	0	1	0	0	0	0	1	0	0	0	<b>2</b>
Scarlet Tanager	0	0	0	1	0	0	0	0	0	1	1	0	0	<b>3</b>
Eastern Towhee	0	0	1	0	0	0	0	1	0	1	0	0	0	<b>3</b>
Chipping Sparrow	0	2	1	1	0	0	1	0	0	1	2	0	1	<b>9</b>
Field Sparrow	3	3	0	0	0	0	0	0	0	0	0	0	0	<b>6</b>
Savannah Sparrow	0	0	0	0	2	5	5	4	2	0	2	0	2	<b>22</b>
Song Sparrow	3	2	1	0	0	1	1	1	1	0	2	1	2	<b>15</b>
Northern Cardinal	0	0	0	0	0	0	1	2	0	0	0	0	0	<b>3</b>
Indigo Bunting	1	2	2	2	1	1	1	0	0	0	1	0	1	<b>12</b>
Bobolink	0	0	0	0	0	7	2	3	13	0	0	0	2	<b>27</b>
Red-winged Blackbird	0	0	6	0	0	4	3	4	0	0	7	0	0	<b>24</b>
Eastern Meadowlark	0	0	2	0	0	2	0	0	2	0	1	0	0	<b>7</b>
Common Grackle	0	0	5	0	0	0	0	0	0	0	0	0	0	<b>5</b>
Brown-headed Cowbird	0	0	0	0	1	0	0	0	0	0	0	0	0	<b>1</b>
Baltimore Oriole	0	0	0	0	0	0	0	0	0	0	0	0	1	<b>1</b>
American Goldfinch	3	16	0	9	0	2	0	2	0	0	2	2	2	<b>38</b>
<b>Total Birds:</b>	<b>18</b>	<b>37</b>	<b>31</b>	<b>30</b>	<b>26</b>	<b>37</b>	<b>25</b>	<b>36</b>	<b>26</b>	<b>16</b>	<b>40</b>	<b>14</b>	<b>23</b>	<b>359</b>
<b>Species Count:</b>	<b>11</b>	<b>13</b>	<b>16</b>	<b>17</b>	<b>17</b>	<b>15</b>	<b>15</b>	<b>20</b>	<b>11</b>	<b>13</b>	<b>22</b>	<b>11</b>	<b>16</b>	
<b>Total Species:</b>	<b>60</b>													

**Table E-11 Ball Hill Project Area, Breeding Bird Survey by Location, June 11-12, 2008**

Species	B	E	F	G	H	L	T1	T2	T3	T8	T14	T17	T21	T25	T33	T34	T35	T40	T42	T43	T56	T58	T60	T61	T64	T66	Total
Canada Goose	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Ring-necked Pheasant	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2
Wild Turkey	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Great Blue Heron	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	3
American Kestrel	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Killdeer	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2
Spotted Sandpiper	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
American Woodcock	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Mourning Dove	0	0	0	0	1	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	2	0	6
Black-billed Cuckoo	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3
Yellow-billed Cuckoo	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Ruby-thr. Hummingbird	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Yellow-bellied Sapsucker	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	1	0	0	6
Downy Woodpecker	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Hairy Woodpecker	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2
Northern Flicker	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Pileated Woodpecker	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2
Eastern Wood-Pewee	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	1	0	0	6
Alder Flycatcher	0	0	0	0	1	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	2	0	0	0	1	7
Willow Flycatcher	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Least Flycatcher	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Great Crested Flycatcher	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	1	0	0	0	0	1	0	0	0	5
Eastern Kingbird	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Blue-headed Vireo	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	2
Warbling Vireo	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Red-eyed Vireo	0	1	0	0	0	3	1	0	2	1	0	1	1	1	1	1	2	2	0	1	0	0	2	0	2	1	23
Blue Jay	0	1	0	1	0	2	0	0	0	1	2	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	9
American Crow	0	2	3	4	2	3	2	2	3	3	0	3	2	3	0	2	2	2	3	2	3	2	2	3	4	2	59
Tree Swallow	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2
Barn Swallow	0	0	2	0	0	0	0	0	0	0	0	0	4	2	0	0	0	0	0	0	2	0	0	0	1	0	11

**Table E-11 Ball Hill Project Area, Breeding Bird Survey by Location, June 11-12, 2008**

Species	B	E	F	G	H	L	T1	T2	T3	T8	T14	T17	T21	T25	T33	T34	T35	T40	T42	T43	T56	T58	T60	T61	T64	T66	Total
Black-capped Chickadee	2	0	0	0	0	0	1	1	1	1	0	1	0	0	0	0	1	0	0	0	0	0	2	2	0	1	13
White-breasted Nuthatch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	2
House Wren	1	0	0	0	0	1	0	0	1	0	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0	8
Winter Wren	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Eastern Bluebird	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Veery	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1	0	1	1	0	0	1	0	0	6
Hermit Thrush	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2
Wood Thrush	0	0	0	0	0	1	1	0	2	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	0	7
American Robin	3	1	3	3	0	3	3	0	0	0	0	2	2	4	2	2	3	0	0	0	2	0	3	2	0	4	42
Gray Catbird	0	0	0	0	0	0	0	2	1	2	0	0	0	1	1	0	0	1	1	0	0	1	0	0	0	0	10
Brown Thrasher	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	4
Cedar Waxwing	0	0	0	0	0	0	0	0	2	3	0	0	0	0	0	0	0	0	0	0	7	3	0	0	0	0	15
Blue-winged Warbler	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Nashville Warbler	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Yellow Warbler	1	0	2	1	1	0	1	1	2	0	0	1	1	1	0	0	0	0	1	2	0	3	0	0	0	2	20
Chestnut-sided Warbler	0	0	0	0	1	0	0	0	2	0	1	0	0	0	1	1	1	0	0	1	2	1	0	0	0	1	12
Magnolia Warbler	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Yellow-rumped Warbler	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Black-thr. Green Warbler	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	2
Blackburnian Warbler	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
American Redstart	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	5
Ovenbird	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1	1	1	0	0	0	0	1	2	0	0	8
Mourning Warbler	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1	0	0	1	0	0	0	0	0	5
Common Yellowthroat	0	2	1	1	2	1	0	0	1	0	0	2	1	0	2	0	0	0	1	1	0	0	0	3	1	2	21
Hooded Warbler	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	3
Scarlet Tanager	1	0	0	0	0	1	0	0	0	0	0	1	0	0	1	0	0	1	0	0	0	0	1	0	0	0	6
Eastern Towhee	0	0	0	0	0	0	1	1	1	1	2	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	9
Chipping Sparrow	0	0	1	0	0	0	2	0	2	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	8
Field Sparrow	1	0	0	1	2	0	1	0	1	0	0	0	0	1	1	0	0	0	0	0	0	2	0	0	0	0	10
Savannah Sparrow	0	4	3	4	1	0	0	0	0	0	0	4	5	2	1	0	0	0	1	3	0	0	0	0	2	0	30
Grasshopper Sparrow	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Song Sparrow	3	2	4	0	1	2	1	5	3	1	0	2	0	1	3	1	0	0	2	2	2	3	0	0	4	2	44

**Table E-11 Ball Hill Project Area, Breeding Bird Survey by Location, June 11-12, 2008**

Species	B	E	F	G	H	L	T1	T2	T3	T8	T14	T17	T21	T25	T33	T34	T35	T40	T42	T43	T56	T58	T60	T61	T64	T66	Total
Dark-eyed Junco	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	3
Rose-breasted Grosbeak	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	2	0	0	0	1	2	1	0	0	9
Indigo Bunting	2	1	0	0	2	1	2	1	1	3	0	2	0	1	1	0	2	0	0	1	1	2	0	1	1	1	26
Bobolink	0	7	4	8	8	0	0	3	0	0	0	1	8	3	2	0	0	0	3	11	0	0	0	0	2	0	60
Red-winged Blackbird	3	6	6	4	3	0	0	0	0	0	0	0	3	4	2	0	0	0	4	4	3	0	0	0	3	4	49
Eastern Meadowlark	0	0	1	2	2	0	0	1	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	9
Common Grackle	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Brown-headed Cowbird	0	0	0	0	0	3	0	2	0	0	0	0	0	0	0	0	1	2	0	0	2	0	0	0	0	0	10
Baltimore Oriole	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1	0	3
American Goldfinch	0	4	0	0	2	0	0	0	0	0	0	1	0	0	1	1	0	0	2	0	0	2	0	0	2	0	15
<b>Total Birds:</b>	<b>18</b>	<b>32</b>	<b>36</b>	<b>30</b>	<b>31</b>	<b>29</b>	<b>19</b>	<b>22</b>	<b>28</b>	<b>23</b>	<b>9</b>	<b>29</b>	<b>28</b>	<b>30</b>	<b>25</b>	<b>17</b>	<b>16</b>	<b>19</b>	<b>22</b>	<b>32</b>	<b>28</b>	<b>34</b>	<b>22</b>	<b>23</b>	<b>29</b>	<b>22</b>	<b>653</b>
<b>Species Count:</b>	<b>10</b>	<b>12</b>	<b>17</b>	<b>11</b>	<b>16</b>	<b>18</b>	<b>14</b>	<b>13</b>	<b>18</b>	<b>15</b>	<b>7</b>	<b>20</b>	<b>10</b>	<b>17</b>	<b>17</b>	<b>13</b>	<b>11</b>	<b>14</b>	<b>12</b>	<b>14</b>	<b>13</b>	<b>17</b>	<b>15</b>	<b>15</b>	<b>15</b>	<b>12</b>	
<b>Total Species:</b>	<b>72</b>																										

**Table E-12 Proposed Turbine Locations, 2008 Breeding Bird Survey Points, and Habitat Description**

Proposed Turbine Number	2008 Breeding Bird Survey Point	2007 Breeding Bird Survey Point	Habitat Type <sup>1</sup>	Description	Approximate Percent Cover			
					Forest	Row Crop	Grassland	Reverting Field
1	Yes	No	Successional Field	Shrubby	50%	25%	0%	25%
2	Yes	No	Agricultural	Middle of ag. field, short hike from road	25%	50%	0%	25%
3	Yes	No	Successional Field	Edge of old field, woods	50%	25%	0%	25%
4	No	No	Agricultural					
5	No	No	Agricultural					
6	Yes	Yes (G)	Agricultural	Middle of ag. field	25%	50%	25%	0%
7	No	No	Agricultural					
8	Yes	No	Agricultural	Woods/ ag. edge	75%	0%	25%	0%
9	No	No	Beech/Maple Mesic					
10	No	No	Agricultural					
11	No	No	Hemlock-Northern Hardwoods					
12	No	No	Hemlock-Northern Hardwoods					
13	No	No	Successional Shrub					

**Table E-12 Proposed Turbine Locations, 2008 Breeding Bird Survey Points, and Habitat Description**

Proposed Turbine Number	2008 Breeding Bird Survey Point	2007 Breeding Bird Survey Point	Habitat Type <sup>1</sup>	Description	Approximate Percent Cover			
					Forest	Row Crop	Grassland	Reverting Field
14	Yes	No	Hemlock-Northern Hardwoods	In woods	50%	25%	0%	25%
15	No	No	Hemlock-Northern Hardwoods					
16	No	No	Agricultural					
17	Yes	No	Agricultural	Middle of field	25%	0%	50%	25%
18	No	No	Agricultural					
19	Yes	Yes (F)	Successional Field	Middle of old field	0%	75%	0%	25%
20	No	No	Agricultural					
21	Yes	No	Agricultural	Middle of ag. field	0%	75%	25%	0%
22	No	No	Agricultural					
23	Yes	Yes (H)	Agricultural	South of woods edge in ag. field	25%	50%	0%	25%
24	No	No	Agricultural					
25	Yes	No	Successional Shrub	Shrub/woods edge	50%	25%	0%	25%
26	No	No	Agricultural					
27	No	No	Agricultural					
29	No	No	Agricultural					
30	Yes	Yes (E)	Agricultural	Middle of ag. Field	0%	75%	25%	0%
31	No	No	Agricultural					

**Table E-12 Proposed Turbine Locations, 2008 Breeding Bird Survey Points, and Habitat Description**

Proposed Turbine Number	2008 Breeding Bird Survey Point	2007 Breeding Bird Survey Point	Habitat Type <sup>1</sup>	Description	Approximate Percent Cover			
					Forest	Row Crop	Grassland	Reverting Field
32	No	No	Agricultural					
33	Yes	No	Agricultural	Woods/ag. Edge	25%	75%	0%	0%
34	Yes	No	Beech/Maple Mesic		75%	25%	0%	0%
35	Yes	No	Beech/Maple Mesic		25%	50%	25%	0%
36	No	No	Beech/Maple Mesic					
38	No	No	Agricultural					
39	Yes	Yes (B)	Agricultural	Ag./forest edge near hedgerow	25%	50%	0%	25%
40	Yes	No	Hemlock-Northern Hardwoods		75%	0%	0%	25%
41	No	No	Agricultural					
42	Yes	No	Agricultural	Ag./shrub/pond	50%	50%	0%	0%
43	Yes	No	Agricultural	Middle of ag. Field	25%	75%	0%	0%
45	No	No	Agricultural					
46	No	No	Agricultural					
47	No	No	Hemlock-Northern Hardwoods					

**Table E-12 Proposed Turbine Locations, 2008 Breeding Bird Survey Points, and Habitat Description**

Proposed Turbine Number	2008 Breeding Bird Survey Point	2007 Breeding Bird Survey Point	Habitat Type <sup>1</sup>	Description	Approximate Percent Cover			
					Forest	Row Crop	Grassland	Reverting Field
48	No	No	Hemlock-Northern Hardwoods					
49	No	No	Hemlock-Northern Hardwoods					
50	No	No	Agricultural					
51	No	No	Successional Field					
52	No	No	Successional Field					
53	No	No	Successional Field					
54	Yes	Yes (L)	Successional Field	Woods/ag. Edge	75%	0%	25%	0%
55	No	No	Agricultural					
56	Yes	No	Agricultural	Ag./ forest edge	75%	0%	25%	0%
57	No	No	Agricultural					
58	Yes	No	Agricultural	Reverting ag. Field	50%	0%	50%	0%
59	No	No	Beech/Maple Mesic					
60	Yes	No	Beech/Maple Mesic		100%	0%	0%	0%

**Table E-12 Proposed Turbine Locations, 2008 Breeding Bird Survey Points, and Habitat Description**

Proposed Turbine Number	2008 Breeding Bird Survey Point	2007 Breeding Bird Survey Point	Habitat Type <sup>1</sup>	Description	Approximate Percent Cover			
					Forest	Row Crop	Grassland	Reverting Field
61	Yes	No	Hemlock-Northern Hardwoods	Wood/ag. Edge	75%	0%	0%	25%
62	No	No	Hemlock-Northern Hardwoods					
64	Yes	No	Agricultural	Wood/ag. Edge	50%	25%	25%	0%
65	No	No	Agricultural					
66	Yes	No	Agricultural	Field/hardwood edge	25%	25%	25%	25%
67	No	No	Hemlock-Northern Hardwoods					

<sup>1</sup> As per Ecological Communities on DEIS Figure 2.9-1

**Table E-13 Summary of Habitat Types Based on Aerial Photograph Interpretation, Ball Hill 2008 Breeding Bird Surveys**

Habitat Type	Number of Points with			
	100% Cover	75% Cover	50% Cover	25% Cover
Forest	1	6	7	9
Row Crop	0	5	6	7
Grassland	0	0	2	9
Reverting Field	0	0	0	12

**Table E-14 Ball Hill Breeding Bird Survey Locations (2008) with Global Positioning System Coordinates and Nearest Road**

<b>Turbine Number Survey Point</b>	<b>Easting</b>	<b>Northing</b>	<b>Nearest Road</b>
1	989014.62	879207.52	Zahm Road
2	990883.11	878496.56	Round Top Road
3	998215.51	878356.01	Round Top Road
6 (G)	991348.23	8748641.7	Round Top Road
8	993268.68	873639.16	Round Top Road
14	995474.01	869654.64	Villanova Road
17	997459.15	869455.89	Villanova Road
19 (F)	996927.55	868936.92	Pope Hill Road
21	997921.88	875386.13	Pope Hill Road
23 (H)	988189.63	875082.24	Pope Hill Road
25	998215.51	878356.01	Pope Hill Road
30 (E)	999181.04	873250.03	Prospect Road
33	1003559.07	875826.43	Prospect Road
34	1003299.57	874663.73	Prospect Road
35	1004414.63	874070.63	Prospect Road
39 (B)	994610.47	881999.04	Prospect Road
40	1007329.42	874886.85	Prospect Road
42	1005764.12	876650.49	Prospect Road
43	1005359.79	877629.53	Prospect Road
54 (L)	1000173.42	882071.76	Hurlburt Road
56	1005883.33	888427.63	Hurlburt Road
58	1003089.07	890116.50	Hurlburt Road
60	1005980.63	890531.91	Route 39
61	1007869.79	892850.89	Route 39
64	1004448.52	894050.50	Route 39
66	1006641.30	895529.61	Route 39