

**Supplementary Table 1.** Descriptive data of clinically examined duck flocks

Flock no.	Breed	No. of examined ducks	Age\ Day	Total flock no.	Mortality no.	Morbidity		Previous Parvovirus vaccination	Clinical findings
						No	%		
1	Muscovy	4	20	4000	-	50	1.25	Breeder vaccination  Live-attenuated vaccine s/c at 2 weeks of age	General weakness Abnormal feathering Skin redness Diarrhea Locomotor abnormalities Growth retardation
2	Muscovy	2	75	1500	-	30-40	2-2.7	Breeder vaccination	General weakness Abnormal feathering Skin redness Diarrhea Growth retardation
3	Muscovy	3	18	1000	10-15	50	5	Breeder vaccination  Live-attenuated vaccine s/c at 2 weeks of age	Growth retardation Diarrhea
4	Muscovy	1	70	500	10	50	10	Breeder vaccination	General weakness Abnormal feathering Diarrhea Growth retardation
5	Pekin	5	35	1500	-	30-50	2-3.3	Breeder	Severe growth retardation Abnormal feathering
6		5	35	1500	-				

<b>7</b>		5	40	1500	-			vaccination	Skin redness Protruded necrotic tongue Beak atrophy Diarrhea
<b>8</b>		5	40	1500	-				
<b>9</b>	Native	2	40	200	-	All	100	-	Growth retardation General weakness Abnormal feathering Skin redness Locomotor disturbance
<b>10</b>	Pekin	5	42	3000	-	1500	50	Breeder vaccination	Severe growth retardation Abnormal feathering Skin redness
<b>11</b>	Pekin	5	42	3000	-	1000	33.3	Breeder vaccination	Protruded necrotic tongue Beak atrophy General weakness Diarrhea
<b>12</b>	Pekin	5	30	6000	-	3000	50	Breeder vaccination	Severe growth retardation Abnormal feathering Skin redness Protruded necrotic tongue Beak atrophy General weakness Diarrhea
<b>13</b>	Native	1	45	20	-	All	100	-	Growth retardation General weakness Abnormal feathering Skin redness Diarrhea Locomotor disturbance

<b>14</b>	Mule	2	65	1500	10-15 At 9-15- day-old	100- 150	6.7-10	Breeder vaccination	Growth retardation Protruded necrotic tongue Beak atrophy Diarrhea
<b>15</b>	Pekin	6	20	2200	15 At 7-12 day-old	230- 250	10.5- 11.4	Breeder vaccination	Severe growth retardation Protruded necrotic tongue Beak atrophy Diarrhea
<b>16</b>	Pekin	2	60	4000	10-15	90	2.25	Breeder vaccination	Severe growth retardation Protruded necrotic tongue Beak atrophy Diarrhea
<b>17</b>	Pekin	7	20	2020	30 At 7-day old	100- 150	5-7.4	Breeder vaccination	Severe growth retardation Protruded necrotic tongue Beak atrophy Diarrhea
<b>18</b>	Pekin	5	14	1500	-	30-50	2-3.3	Breeder vaccination	Severe growth retardation Short beak Diarrhea
<b>19</b>	Pekin	6	14	1500	-	30-50	2-3.3	Breeder vaccination	
<b>20</b>	Pekin	6	15	2000	-	50-100	2.5-5	Breeder vaccination	Severe growth retardation Short beak Diarrhea
<b>21</b>	Pekin	3	15	2000	-	50-80	2.5-4	Breeder vaccination	Severe growth retardation Short beak Diarrhea General weakness

<b>22</b>	Pekin	3	17	1500	-	50	3.33	Breeder vaccination	Severe growth retardation Short beak Diarrhea General weakness
<b>23</b>	Muscovy	5	22	2500	-	50	2	Breeder vaccination	Severe growth retardation Diarrhea General weakness
<b>24</b>	Muscovy	5	22	2500	-	30	1.2	Breeder vaccination	growth retardation abnormal feathering Diarrhea General weakness
<b>25</b>	Muscovy	1	23	1500	-	50	3.33	Breeder vaccination	growth retardation abnormal feathering Diarrhea General weakness