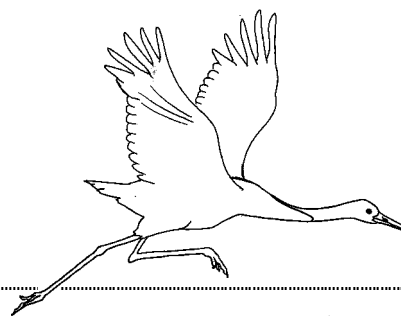


# Index



- Acanthocephala* (acanthocephalan) 103, 160  
acclimation (acclimating) 117, 231-233, 239, 262  
acidosis 141, 153, 164  
adoption(s) 45-46, 61, 85-86, 267, 271, 273, 282, 284, 286  
age distribution 176  
age structure 176-177  
aggression 23-24, 29, 62, 78, 84-86, 90-92, 101, 108, 110, 113-115, 136, 138, 160-161, 205, 225, 236, 258-259  
aggressive displays 106, 109, 114, 119  
air sac(s) 138-140, 156, 161, 170, 205, 207  
allele(s) 175-178, 181  
anatomy 3, 123, 129, 134-136, 155, 166, 168, 205, 207  
androgens 124-127, 130, 136  
anemia 140-141, 143, 147, 150-151  
anesthesia (anesthetized) 137, 141, 146, 154, 168-171, 173, 186, 227, 262  
anesthetic 143, 146, 166, 168, 173, 242, 244  
angel wing 101  
Animal Care and Use Committee 31  
Animal Record Keeping System (ARKS) 185-186, 193, 196, 199, 202, 204  
Animal Welfare Act 31  
*Anthropoides paradisea* (*A. paradiseus*) 2, 271, 288  
*Anthropoides virgo* 2, 76, 172-173, 272, 289  
antibiotic(s) 32, 72, 80, 87, 95-97, 100, 141-142, 155-157, 160-162, 164, 166, 171-172, 210  
antifungal 97, 156-157  
antihelminthics 96  
aqua therapy (see swimming) 90, 257  
arthritis (see osteoarthritis) 102, 162, 166  
artificial insemination (AI) 25, 34, 37-38, 49, 52, 56, 84, 113-116, 134, 140, 189-190, 192, 197, 199-200, 202-207, 209-217, 221-222, 228, 241, 259  
artificial selection 177  
*Aspergillus* (aspergillosis) 32, 97, 140, 152, 156, 256  
attachment 90, 117, 119, 247, 259  
auscultation 140  
avian pox 138, 143, 157, 174  
bacteria (bacterial) 32, 35, 60-61, 64, 66, 69, 72, 88-89, 96-98, 140-142, 151-152, 155-157, 165-166, 209-211, 216-217  
*Balearica pavonina* 2, 267  
*Balearica pavonina ceciliae* (*B. p. ceciliae*) 2, 263-264, 267  
*Balearica pavonina pavonina* (*B. p. pavonina*) 2, 263-264, 267  
*Balearica regulorum* 2, 29, 75, 133, 268, 289  
*Balearica regulorum gibbericeps* (*B. r. gibbericeps*) 2, 264, 268  
*Balearica regulorum regulorum* (*B. r. regulorum*) 2, 264, 268  
bandage (bandaging) 101-102, 146, 166-167  
bands 41-42, 85, 181, 238-239  
beak fractures 161, 173  
beak repair 169, 171-172  
beak trimming 100, 137  
Black Crowned Crane 2, 4, 26, 5, 223, 263-264, 267, 289, 291  
Black-necked Crane 109, 179, 266, 284-285, 288, 290, 292  
blood collection 144, 146  
blood glucose 99, 144  
blood smears 146-147, 153  
blood typing 181-182  
Blue Crane 2, 26-27, 29, 8, 76, 179, 225, 264, 270-271, 288  
body condition index (BCI) 98, 139  
botulism 164, 171-172  
bowed legs 83, 102  
brailing 41, 114, 239, 241, 243-244  
breeding objectives 176, 182, 204  
breeding pens 77, 260-262  
breeding season 3, 23-24, 33-34, 45, 49, 51-52, 55, 85, 87, 93, 110, 112, 115, 124, 186, 188, 192-193, 196, 200, 202, 228, 251, 259, 271, 276, 279, 284  
Brolga 2-3, 26, 14, 34, 39, 48, 50, 55, 67, 83, 107, 224-226, 262, 265, 280-281, 288, 292  
brooder 77-78, 85, 87-88, 91-93, 236, 253-254, 257  
broom 37, 87

- Bugeranus carunculatus* 2, 120, 270, 289  
bumblefoot (see pododermatitis) 102, 140-141, 161, 165-166, 174
- cachexia 98-99  
calcium 34-36, 51, 54, 62, 79, 130, 145, 150-152, 162  
candling 60, 65-66, 68-69, 72, 74  
*Capillaria* (capillarids) 103, 153, 158, 160  
captive management programs 178  
capture corners 36, 115, 258-260  
capture myopathy 38, 43, 141, 143, 152, 164, 172-174  
carcinoma(s) 155, 163  
cardiac disease 152  
carrying capacity 176-177  
central nervous system 124, 152  
cestodes 153, 158-159  
*Chlamydia* 142, 152  
climate 47, 260  
cloaca 98, 128-129, 134, 162-163, 170, 190, 205-210, 212-214, 228  
cloacal prolapse 97  
*Clostridium* 32, 156, 164  
clutch 23-24, 52-54, 60, 68, 85-86, 116, 130, 200  
coccidia (coccidiosis) 97, 103-104, 153, 158-159, 172-173  
conditioning 94-95, 115, 118, 205, 207, 233, 237, 253  
copulation 45, 48, 106, 110, 114-115, 121, 128, 205-209, 241  
cornea (corneal) 37, 100, 104, 161  
corticosteroids 141-142, 160-161, 164  
costume 93-94, 118, 232, 234-237  
costume-rearing (costume-reared) 93-95, 117-119, 234, 236-239, 257  
courtship 45, 48  
crates 40-41  
cross-fostering (cross-fostered) 85, 104, 117-118, 120, 233-234, 240, 287  
cryopreservation (cryopreserved) 176, 199, 216, 219, 221-222  
culling 176  
culture(s) 60, 72, 96-97, 100, 141, 155-156, 162, 166, 193, 226-229  
culturing 141, 156  
*Cyathostoma* 103, 153, 158  
cytology 97, 172
- daylength (see photoperiod) 46-47, 52  
dehydrate 207, 221  
dehydration 73, 79-80, 89, 97-98, 101, 123, 136, 140-141, 152, 164, 209  
demography (demographic) 175-178, 183, 185-186, 196  
Demoiselle Crane 2, 26, 29, 9, 20, 172, 223, 264, 271-273, 290-292  
diarrhea 97-98, 139, 153, 155, 158, 162, 171  
diet(s) 3, 34-35, 41, 43, 51, 55, 57, 62, 78-79, 83, 89-90, 99, 101-102, 104, 144, 152, 164-166, 174, 237, 269, 284  
differential cell count 147  
dimethylsulfoxide (DMSO) 220-222  
disease 25, 32, 45, 49, 59, 61, 65, 67, 86, 92, 97-99, 103-104, 123, 132, 137-138, 140-141, 150-153, 156-158, 164, 166, 170-175, 182, 192, 204-205, 234, 246, 248-250, 252, 262, 276-277, 283, 288  
disinfect 32, 36, 60, 72, 78, 253, 262  
disseminated visceral coccidiosis (DVC) 97, 158  
disturbance 31-34, 41, 43, 45, 51-52, 54, 56, 112-113, 115-116, 121, 123, 132, 135, 161, 212, 247, 251, 256, 259, 269, 272, 275-276, 279, 281, 286, 288, 291  
DNA 3, 28, 181-183, 223, 227, 229  
drinking water 34, 36, 61  
dummy eggs 45, 54-55, 60, 62, 85-86
- eastern equine encephalitis (EEE) 33, 157, 171-172, 250, 252  
ectoparasites 159-160, 250  
effective population number 175  
egg(s) 3, 22-26, 32-34, 45-57, 59-76, 84-86, 94-96, 103, 106, 110, 112-117, 124-127, 129-132, 134-136, 139, 143, 152-153, 157-158, 160, 162-163, 170, 173, 181-182, 186, 188, 190, 192-193, 196-197, 199-203, 206-213, 215-216, 219, 228, 231, 233, 235-236, 239, 245-246, 248, 251, 279, 284, 287  
egg binding 143, 152, 162  
egg breakage 51, 53-54, 63  
egg laying interval 52-53, 199-200, 202  
egg removal 53, 199  
egg retention 162  
*Eimeria* 103, 153, 158, 160  
electric fencing 246  
emaciation 98-99, 139, 144  
endocrine disorders 152  
endogenous rhythms 46, 124

- endoscope (endoscopic) 170, 174  
 energy requirements 98  
*Escherichia coli* 96, 139, 155-156  
 estrogens 124-127, 129-130  
*Eucoleus* 153, 158  
 Eurasian Crane 2, 25-26, 15, 106, 265, 281-282  
 euthanasia 176  
 exercise 34, 61-62, 77-78, 83-84, 87, 90-93, 101-103, 110, 165, 234, 255-257  
 exhibit pens 261-262  
 eye injuries 78, 100
- facilities 31, 39, 45, 48, 54, 59-60, 77-78, 84, 90-91, 94-95, 152, 158, 160-161, 211-212, 237, 246-248, 250-251, 253, 255, 257-259, 261-262, 274  
 fallow pen (see pen rotation) 31-32, 158  
 fecal examination(s) 103, 153, 193  
 feeding (feed) 3, 26, 33-36, 38, 41, 43, 51, 56, 62, 78-79, 84-85, 88-89, 91-92, 94-95, 97, 99-101, 108, 113-114, 117-119, 125, 144, 154, 159, 164, 168-169, 209, 236-239, 248-251, 257-258, 260-262, 268, 271-273, 276-278, 283-287, 291  
 fertility 54, 60, 66-69, 76, 103, 110, 116, 134, 136, 155, 175-177, 190, 197, 205, 208-213, 215-217, 219, 221-222  
 fitness 177  
 flotation 60, 66, 69, 153, 158  
 fluid therapy 96-97, 99, 101, 104, 140-141, 144, 162, 174  
 follicle stimulating hormone (FSH) 124-127, 130-131  
 food storage 35, 246  
 footbath 32  
 foreign body 162, 170-171, 173  
 formaldehyde 65  
 fossil 1, 28  
 founder 176, 182, 219  
 fracture(s) 38, 103, 137, 140, 143, 161-162, 165, 167-169, 172-173  
 fumigate 65  
 fungal infection(s) 51, 72, 97, 151, 156
- gapeworm(s) (see *Syngamus*) 103, 153, 158  
 gastrointestinal 98-99, 150-151, 154-155, 158, 170-171  
 genealogy 56, 177, 185, 204  
 generation time 177  
 genetic bottleneck 177, 181  
 genetic defects 59  
 genetic diversity (diversity) 175-178, 181-183, 219, 288, 290  
 genetic drift 176  
 genetic fingerprinting 181  
 genetic load 177  
 genetic management 27, 175-177, 179, 181, 183, 185  
 genetic representation 176  
 genetics 102, 182-183, 227  
*Giardia* 153  
 gonadotropins 124, 130  
 gout 140, 152, 162  
 Gray Crowned Crane 2, 4, 26, 6, 123, 264, 268  
 growth 29, 32, 34-35, 43, 54, 60-61, 66, 78, 80-84, 86-87, 89-90, 97, 100-104, 121, 124-127, 129-130, 136, 162-163, 165, 174-177, 186, 188, 256, 268, 279  
*Grus americana* 2, 104, 121, 173-174, 183, 228, 287, 290  
*Grus antigone* 2, 172, 279  
*Grus antigone antigone* (*G. a. antigone*) 2, 265, 278-279  
*Grus antigone gilli* (*G. a. gilli*) 2, 265, 278-279  
*Grus antigone sharpii* (*G. a. sharpii*) 2, 265, 278-279  
*Grus canadensis* 2, 29, 56, 104, 120, 135, 172-174, 217, 276  
*Grus canadensis canadensis* (*G. c. canadensis*) 2, 265  
*Grus canadensis nesiototes* (*G. c. nesiototes*) 2, 265  
*Grus canadensis pratensis* (*G. c. pratensis*) 2, 265  
*Grus canadensis pulla* (*G. c. pulla*) 2, 56, 172, 265  
*Grus canadensis rowani* (*G. c. rowani*) 2, 265  
*Grus canadensis tabida* (*G. c. tabida*) 2, 104, 120, 174, 265  
*Grus grus* 2, 27, 282, 288, 290  
*Grus grus grus* (*G. g. grus*) 2  
*Grus grus lilfordi* (*G. g. lilfordi*) 2  
*Grus japonensis* 2, 28-29, 56, 120-121, 183, 229, 286, 291  
*Grus leucogeranus* 2, 29, 180, 274-275, 291-292  
*Grus monacha* 2, 283, 289  
*Grus nigricollis* 2, 285, 292  
*Grus rubicunda* (*G. rubicundus*) 2, 280, 288  
*Grus vipio* 2, 29, 56, 104, 120, 172, 204, 278, 289, 291  
 Guard-call 112, 223, 225, 237

- hand-rearing (hand-reared) 33, 37, 77-78, 80-84, 87-95, 97, 101-102, 111, 114-117, 120-121, 188, 192, 201, 225, 231-234, 236, 240, 253, 256
- handling 36, 39, 60, 65, 68, 72, 74, 80-81, 84, 86, 89, 95, 98, 101, 116, 152, 154, 160-161, 164, 169, 199, 208-209, 212, 214, 236, 251, 261
- hatch (hatching) 23, 34, 42, 46, 54-56, 59-61, 63, 65-67, 69-73, 75-82, 85-88, 90-91, 94-96, 99, 104, 117, 136, 140, 165, 177, 180, 186, 188, 193, 200, 202-204, 236, 253, 257
- hatchability 54, 59-60, 65, 71-76, 134, 136, 177, 192, 216
- heat stress 29, 40, 98, 135
- hematocrit 141, 143, 145, 147, 150-151
- hematology 144, 153, 172-174
- hematoma 140, 146
- hemoglobin 145, 147-148, 150
- Hemoproteus* 158
- heterozygosity 177, 182
- Hexamita* 153, 158
- hobbling 102
- Hooded Crane 2, 26, 16, 105, 121, 179, 266, 282-284, 289-291
- hormonal status 45
- hormone(s) 52, 124-127, 129-131, 133-136, 228
- humidity 35, 47, 59, 63-66, 71, 73, 96, 98, 124, 193, 209, 253
- hydrotherapy (see swimming, aqua therapy) 78, 103
- hyperglobulinemia 152
- hypoglycemic 99, 141
- impaction 138-139
- imprinting 25, 77-78, 83, 85, 87, 91-95, 117-122, 231-238, 254-255, 257
- inbreeding 59, 61, 67, 177-178, 183, 185, 199
- inclusion body disease (IBDC) 151, 157, 171
- incubation 23, 28, 45, 53-56, 59-71, 73-76, 85-86, 88, 96, 101-102, 104, 111-112, 123, 125, 131-132, 188-189, 193, 199-203, 235, 253
- incubators 33, 53, 59, 61, 63-66, 68, 72-74, 77-78, 200, 253, 257
- infertility 67-68, 205, 209
- inseminating equipment 211
- insemination (inseminate) 25, 33-34, 56, 61, 84, 113, 116, 134, 140, 181, 189, 197, 200, 202, 204-217, 221-222, 228, 241
- International Species Information System (ISIS) 25, 150, 178, 185-186, 202, 204
- intravenous therapy 140-141, 174
- isolation-rearing (isolation-reared) 85, 93-94, 240
- laceration(s) 80, 100, 161, 165, 168, 170
- laparoscopy 155, 173, 223, 227-229
- laparotomy 162
- latitude 46-48, 50, 111, 132, 154
- lead poisoning 150, 152, 163, 173-174
- leg injuries 38, 81, 165-166
- leg rotation 83, 102-103
- Leucocytozoon* 158
- lifespan 51-52
- live-dead count 211
- liver disease 152-153
- longevity 25, 28-29, 52, 176
- luteinizing hormone (LH) 124-127, 130-131, 133-136
- luteinizing hormone releasing hormone (LHRH) 124-127, 130, 132
- luxations 140, 165, 168
- Macracanthorhynchus* 153
- macrochromosomes 226
- Major Histocompatibility Complex (MHC) 182-183
- malpositions 70-72, 75
- massage(s) 205-208, 212-213, 215, 219, 228
- methionine 35, 89, 165
- minimum viable population 176-177
- molt 63, 111, 113, 123, 131-132, 134-135, 228, 242
- mortality 25, 37, 59, 63, 68-69, 71, 75, 84, 87, 157, 163-164, 172-176, 185, 188, 192-193, 196, 199, 202-203, 231, 233, 246-247, 250, 252, 274
- multiple clutching 52, 54
- muscle relaxant 143, 161
- Mycobacterium* 155
- mycotoxins 164, 174
- myopathy 38, 43, 141-143, 152, 164, 171-174
- nebulization (nebulize) 97, 156-157
- neck collars 42
- nematodes 103, 153, 158-159
- neoplasm (neoplasia) 139, 152, 162-163
- nest(s) 21, 23, 25, 29, 34, 45-46, 48-49, 51-52, 54, 56, 59-63, 68, 72-73, 76, 86, 106, 112-113, 115, 117, 125, 130-132, 136, 181, 193, 200, 212, 231, 245, 248-250, 261, 268-269, 271, 273, 278, 281, 283, 285, 287, 290
- nest building 34, 45, 86, 106, 113, 125, 131, 212
- nets 238, 241, 250, 259, 261
- Newcastle disease 156-157, 173

- nutrition (nutritional) 35-36, 43, 51, 54-55, 59,  
 72-73, 89, 91, 95-96, 98-99, 101, 104, 123, 132,  
 137, 139, 144, 152, 165-166, 168, 174, 229  
 nutritional status 139  
 nutritional support 98-99, 104, 144, 168, 174
- ocular injuries 161  
 omphalitis 96  
 orthopedic 100, 166  
 osteoarthritis (see arthritis) 165  
 osteomyelitis 103, 161-162, 166  
 ovary 126, 129-130, 207, 228  
 ovulation 52, 126-127, 129-130, 132-133, 207, 215  
 oyster shell 34, 51, 62
- packed cell volume 98  
 pair bond(s) 22, 45, 51, 59, 108, 112, 114-116  
 parasite(s) 31, 43, 61, 78, 84, 86, 92, 95, 98,  
 103-104, 133, 137, 151, 153, 158, 160, 171-173,  
 245, 248-249  
 parasitic diseases 43, 153, 158, 172, 252  
 parasiticides 158  
 parent-rearing (parent-reared) 33, 37, 77, 79-80,  
 83-84, 86-87, 89-91, 95, 97, 103, 110-111, 114,  
 116, 192-193, 202-203, 231, 233-234, 238, 240,  
 244, 258  
 parentage 175, 177, 181  
 pedigree 181, 185  
 pen rotation (see fallow pen) 31, 33, 39, 158,  
 251, 261  
 peritonitis 97, 103, 152, 158  
 pest 245-247, 249-252  
 pesticide(s) 151, 163, 173-174, 245-246, 252, 268,  
 277-279  
 pets 24  
 phosphorus 34-35, 51, 145, 150-152  
 photoperiod (see daylength) 33-34, 46-50, 56,  
 60-61, 111, 131-132, 134-135, 261-262  
 physical examination(s) 33, 137, 140, 155, 188, 192,  
 199, 236  
 physical restraint 36, 154  
 physical therapy 164-165  
 physiology 29, 56-57, 113, 123, 125, 127, 129,  
 131-136, 216-217  
 pipping 66, 69, 73, 200  
 plumage 1, 21, 29, 106-107, 119, 131, 134, 136, 139  
 pododermatitis (see bumblefoot) 140, 161, 165
- pool(s) 32, 49, 51, 78, 87, 89-90, 146, 176, 178, 183,  
 219, 238, 256, 260, 262  
 Population and Habitat Viability Analysis (PHVA)  
 181, 274, 276, 279, 286, 291  
 population growth 176, 268, 279  
 predator 77, 84, 88, 237, 245, 247-249, 251, 259  
 preventative health program 95  
 preventative medicine 95  
 progesterones 130  
 prolactin 45, 125-127, 131, 133-135  
 prostaglandins 126, 129-130, 134-135  
 prosthesis 170-171, 173  
 protein 34-35, 51, 55, 78-79, 99, 101, 129, 134,  
 144-145, 150-152, 181, 216  
 protein electrophoresis 181  
 protozoa 153, 158  
 proximate factors 46  
*Pseudomonas* 100, 104, 156  
 pubic bones 62, 190, 207-208, 212-213  
 public display 45, 105, 116
- quarantine 158, 171, 178, 260, 262
- radio transmitters 238  
 radiograph 138, 154-155, 162, 165, 171, 193,  
 244, 262  
 radiology 154, 193  
 rainfall 48, 51, 124, 268  
 records 25, 54, 57, 60, 65, 67, 78, 154, 185-204,  
 212-213, 272, 284, 289-290  
 red blood cell count 148  
 Red-crowned Crane 83, 105, 107, 120, 178-179, 233,  
 240, 258, 266, 285-286, 288, 290  
 reintroduction 27-28, 56, 75, 77, 118, 120, 133, 231,  
 233-235, 237, 239-240, 263, 267, 273, 275, 279,  
 286, 288-289  
 releases 117, 125, 127-129, 132, 231-232, 239,  
 273-274, 277, 288  
 releases, abrupt 21, 24, 39, 85, 94, 231-232  
 releases, gentle 98, 231-232, 234, 240, 244  
 renal disease 152-153  
 reproductive lifespan 51-52  
 respiratory disease 97  
 restraining 36-37, 39, 146, 164, 243-244

- Salmonella* 95, 155-156, 171, 174  
Sandhill Crane 2-4, 21-24, 26, 29, 11, 33, 40, 43, 48-49, 51, 53, 56-57, 75-76, 81-83, 85-86, 92-93, 99, 101, 103-105, 107, 109-113, 118-122, 129, 134-135, 138-139, 150-151, 163-164, 168, 171-174, 181, 208-210, 216-217, 219, 221, 225, 231, 233, 238-240, 242, 245, 260, 265, 271, 275-277, 287, 291  
sanitation 31, 65, 75, 87, 246, 248  
Sarus Crane 2, 26, 83, 163, 172, 225, 265, 278-280, 289  
scoliosis 138, 156  
screen-rearing 93, 234  
selenium 36, 102, 143, 163-164  
semen 34, 45, 47, 49, 51-53, 55-57, 124-125, 128, 130, 132, 134, 181, 189-190, 199, 204-217, 219-222  
semen, collection 61, 95, 105, 137, 144, 146, 155, 157, 185-186, 193, 199, 202, 205-207, 209-212, 215-217, 219  
semen extender 209, 211-213, 217, 219-220, 222  
semen, fecal contamination 207, 210  
semen, protection 27, 37, 115, 209, 211, 237, 245, 250, 263, 267, 269-271, 273-274, 276-277, 279, 281-284, 286, 288-289, 291-292  
semen, quality 52, 55-56, 83, 154-155, 164, 173, 190, 199, 209-210, 215  
serology 97  
serum chemistries 152  
sex ratio 28, 56, 175-177  
sexing 34, 110, 173, 181, 223, 226-229  
sexing, blood culture 227  
sexing, DNA probe 223, 227  
sexing, feather pulp 227  
sexing, fecal steroid 223, 228  
sexing, karyotyping 223, 226  
sexing, surgical 173, 227, 229  
sexing, vent sexing 228  
sexual maturity 51-52, 56, 117, 121, 123, 132, 177  
shipping (shipment) 40-41, 158, 160-161, 199, 202, 227, 243  
shock 98, 101, 137, 140-142, 153, 160-161, 249  
Siberian Crane 2-4, 21, 25-29, 10, 39-40, 46, 52, 56-57, 83, 86, 98, 100, 108, 112, 118, 169, 178-180, 225, 235, 252, 264, 273-275, 291-292  
sling 39-40, 164, 168  
social display(s) 22, 106, 110-113, 116, 212  
socialization 77-78, 91, 93, 95, 188, 233, 238, 257  
sonagram 223  
sperm 52, 128, 130, 135, 148, 205, 207-211, 213-217, 219-221  
sperm concentration 1, 32, 148, 150, 153, 173, 207, 209-210, 213-214, 216, 219-220  
sperm density 144, 154-155, 165, 210, 215, 220-221  
sperm motility 75, 136, 210-212, 214, 219-221  
splayed leg 102  
splint(s) (splinting) 100-103, 165-169  
sprinklers 48, 260  
*Staphylococcus* 140, 152  
Starlicide 250  
stress 29, 31, 39-40, 45, 54, 77, 80, 86, 90, 97-98, 115, 123, 127, 132, 134-135, 139-140, 151-152, 154-155, 160, 162, 166, 206-209, 227, 234  
stressors 132  
subcutaneous emphysema 139, 161, 165, 170  
sulphur amino acids 35  
supplemental (supplementary) feeding 79, 156  
supplemental heat 33-34  
surrogate 45, 53, 59, 61, 85, 87, 119-120, 231, 240  
surrogate incubation 61  
surrogate pair 61  
survival 1, 23, 27-28, 49, 56, 63, 95, 103, 113, 117, 141, 158, 168, 175-179, 181-183, 192, 196, 210, 219, 231-234, 237-238, 240, 244, 288, 291  
suture(s) 96, 98, 100, 141, 162-163, 166, 168-169, 170-171  
swimming (see aqua therapy, hydrotherapy) 78, 90, 103, 256  
*Syngamus* (see gapeworm) 103, 153, 158  
  
taming 84, 115  
tattoos 42  
taxonomy (taxonomic) 1, 27, 120-121, 182, 204, 228  
tennis netting (see visual barriers) 37, 94, 115, 247, 257-260  
tenotomy 162, 241-242, 244  
tension taping 103  
testes 128, 205, 227  
toes 67, 83, 101-103, 106, 140, 165  
toes, crooked 101-102, 165  
toes, curled 101, 165, 168  
total protein 145, 150-152  
toxicity 141, 151-152, 164, 220, 252  
toxins 151, 163  
trachea 1, 21, 97, 99, 123, 138, 144, 156, 158, 170  
tracheal flushes 156  
tracheal washes 158  
training 27-28, 82, 87-89, 95, 116, 118, 170, 209, 237, 245, 252, 267, 278, 282, 284-285, 288-292  
transfer 40, 73, 180, 185, 199, 205, 219-221, 237, 256, 262

- translocated 231, 247  
 transmitter(s) 237-240  
 transponders 42-43  
 transportation 164, 245  
 transporting 36, 39-41, 73, 164  
 trap(s) 247-252  
 trauma 41, 66, 97, 100-101, 103, 137-143, 152,  
 160-162, 164-165, 170, 259  
 trematodes 158-159  
 tube feeding 79, 89, 97, 99-100, 144, 168-169  
 tuberculosis (TB) 151-152, 155, 162, 171, 174,  
 207, 214
- ultimate factor 46  
 umbilicus 60, 86-87, 96  
 Unison-call 4, 108, 111, 223-225
- vaccination 33, 157, 171-172, 186  
 vaccines 157  
 venipuncture 141, 146  
 viral infections 151  
 virus 157, 172-174, 250, 252  
 visual barriers (visual screening) (see tennis netting)  
 31, 34, 45, 54, 115, 161, 247, 258-262
- wading pools 32  
 Wattled Crane 2-3, 21, 23, 25-26, 28-29, 7, 66, 75,  
 120-121, 145, 149, 179, 225, 264, 269-270,  
 289-290  
 weighing 39, 81-82, 93, 98-99, 139, 234, 253  
 weight 34, 38, 51, 54, 60, 63, 66, 68, 71, 74-75, 78,  
 81-86, 88, 95, 97-99, 101, 103, 111, 130, 139, 144,  
 146, 155-156, 158, 164-166, 188, 192, 215,  
 226, 241  
 white blood cell count 148-149  
 White-naped Crane 4, 46, 83, 179, 183, 204, 225,  
 229, 265, 277-278, 289  
 Whooping Crane 2-3, 21-22, 24-29, 19, 33, 38, 47,  
 51, 56, 71, 74-75, 82-83, 85-86, 90-91, 99,  
 103-108, 110-112, 120-121, 133, 135-136, 154-155,  
 160, 163-164, 171-174, 181-182, 197, 204-206,  
 211, 215, 223, 225-226, 228-229, 231, 233, 235,  
 240-241, 252, 266, 286-290, 292  
 wing clipping 33, 241-242  
 wing problems 78, 82, 101  
 wing tags 42, 85  
 wounds 140, 150-151, 160, 168, 244
- yolk sac 60, 72-73, 82, 94, 96-97, 104
- zinc toxicosis 164

