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Title word cross-reference

$104.00 [Ryp13]. **$105.00** [Cha13]. **$149** [Pet15]. **$167.99** [Fle16]. **$189** [Pet15]. **$209.95** [Fle16]. **$25** [LDA+13]. **$35.00** [LDA+13, Smi13]. **$40.00** [Pra14]. **$48** [Zyd11]. **$55.30** [Chi13, Chr14, Nel14a]. **$64.56** [HCD+14]. **$69** [Zyd11]. **$72.80** [Ryp13]. **$75** [Gid14]. **$79.00** [Chi13, Chr14, Nel14a]. **$85.00** [Var13]. **$99.95** [Qui16, Shi13]. $^{+}$ [SZZ10]. ^{13} [GDPW10]. ^{18} [GDPW10]. **$A130.00** [Ber13]. δ [GDPW10]. S^4 [Dud19].

-ATPase [SZZ10].

. [Zyd11].

1* [HRR+11]. **11-Ketotestosterone** [MGK+18]. **15-Year** [DCJ+13].

2010 [Yas16]. **20E** [BTWB17]. **222** [BLG+13, PET+17].

3-Trifluoromethyl-4-Nitrophenol [CHB+12]. **30-Year** [CAB11].

8-mm [CHR+17].

Abalone [BRS+12]. **Abandonment** [LS10b]. **Abilities** [FCG+17]. **Ability** [FMJ11, FWSW+15, ZZD10]. **Abiotic** [DHA+17]. **Above** [HP14, BLB+13]. **Above-Optimal** [HP14]. **Absorbable** [JLA17]. **Abundance** [ABS+11, Arc16, BPS11, BAKT12, BS15, BRS+12, BB10b, CKC+12, CYW+19, FSP+17, HPF+16, HAG13, HW14, HJS+16, HEW12, HMP18, KYK17, MAS10, MBG10, MHE12, MFH13, MOS13, MCO+10, OI16, PT10, PB13, PPJ15, PMN19, PGS13, PDM+14, PA10, RH14, RSB14, RSL11, RGM+11, SP10, SWB+16, TA13, WBMG10, WS15, ZBHW16, ZKB+15]. **Abundances** [Han11]. **Accelerating** [EGAW12]. **Access** [AJFO10, AJF13a, AJF13b]. **Acclimation** [BRGR10]. **Accounting** [HRG12]. **Accumulation** [HSG10]. **Accuracy** [AHS11a, BFM10, HSF12, MM10, TL14]. **Accurate** [BSSP18]. **Accurately** [DYWY17, MGK+18]. **Acid** [HWH10]. **Acidification** [BGLP19]. **Acids** [YSW+14]. **Acipenser** [FCG+17]. **Acknowledgments** [Ano18g, Ano19h]. **Acoustic** [Cha13, CHW+13, DBC+10, DBB+12, EPT+16, GZB12, HJM+12, JDS15, KHF+18, LBD+16, MCSF14, MGW13, PSH+19, REN17, RPVS15, SNP+10, SFF14, SJFF15, SHH+19]. **Acoustic-Tagged** [HJM+12, REN17]. **Acoustically** [NBC15]. **Acoustically-Tagged** [NBC15]. **Acoustics** [DMR+10]. **Across** [FFYI16, RPC14, SMM13, BBM+14, CKM+11, CJG13, DA16, FBF10, FWD10, FDWG13, FA10, PPH15, PDH+18, WDW11]. **Acrylic** [BN16]. **Act** [ACDL19, WHSK19]. **Action** [BC12]. **Actions** [WCYH18]. **Actively** [ACMM+15]. **Activities** [SJFF15, WRQH17]. **Activity** [BBZGB15, BMM10, BNW+12, GZB12, MDP12, SB12a, SZZ10, WB15a]. **acuta** [SPCJ11]. **Acute** [MFAS+12, SDOK11]. **Adaptation** [DZW+12, TNOU11]. **Adaptations** [Fre19]. **Adaptive** [MHN11]. **Additions** [MWS10]. **Additive** [YJW11]. **Addressing** [TLM+19]. **Adfluvial** [ACDL19, BP13, HSM12, IRJ11, JJNB17]. **Adirondack** [BGLP19, BSGB17, JK17, RJWK10]. **Adjacent** [TT17]. **Admixture** [CCKF11]. **Adult** [ASJ17, BHC+18, BHS+17, BWD+17, CR10, CSDW10, CJL+14, CTS+15, CVB14, DCS+17, DEP+18, DH11, FSJ+11, GCM12, GKG+19, HKKS14, HN11, HBA+15, JCK+12, KST+12, KCJ+15, KHD+14, LUC+15, PM14, RSB14, RHR+15, SGP16, Str10, Str12, TA13, TCBI11, VFB+16, YSC10, YHWH10]. **Adulthood** [AHS10, EHC+14, FBWZ19]. **Adults** [JCS14, KPS+19, PPP+13]. **Advances** [Chi13]. **Advancing** [Chr14]. **Advantages** [ACB+14, DWE+19]. **Aerial** [DFB15]. **Affect** [BVA11, FBF10, MDT10, NPW12, SW11, TL15, WHP14, ZSVK13]. **Affected** [CEFQ11]. **Affecting** [CT12, KLR+15, OTR+14, RSVAB19, RBH+12]. **Affects** [JDS15, RFM+15, SAF+19]. **AFS** [Zyd11]. **after** [BAKT12, DSHG10,

DEW+14, HGB+16, HCZ13, HS13, MBG10, SRP+18, WCMP13]. **Age** [ASP+18, AS17, BMGL12, BBF+18, BMH19, BA13, BBS12, BSR12, BSSP18, CFHE11, CGA13, DLHF16, DL13, DMHO12, GN13, HNK+12, HS17, HBS12, Hoe17, HKO+18, HWHF14, JRBC13, JPHK10, KGW14, KSSK+17, KQ11, KK16, KDS18, KKM11, LS18, Mat18, MM10, MGK+18, Mic10, MFH13, MD11, MBPP18, MLC13, MS12, NAWM14, NTHR18, OWN11, OWP13, PW10b, PDH+18, PA10, RL14, RMMGPB16, RDH11, SR10, SMO+14, SDW+17a, SW11, SS11, SB12b, SPR+16, SSM16, SMH+11, SKBS18, SHP+19, SAW+17, TRMC15, TP11, TA12, UWL12a, WDW11, ZZMC13]. **Age-0** [BBF+18, HBS12, HWHF14, JRBC13, KGW14, KKM11, LS18, Mic10, MFH13, MD11, MS12, NTHR18, PW10b, PA10, RDH11, SDW+17a, SW11, SS11, SPR+16, SMH+11, WDW11]. **Age-1** [MGK+18]. **Age-2** [MGK+18]. **Age-Selective** [KK16]. **Age-Specific** [BA13, RL14, TP11]. **Age-Structured** [BBS12, SR10]. **Ages** [GBB+14]. **Aging** [LSJN13, LS10a]. **Air** [CCB16]. **Alabama** [CHPG12, SYH+15, YITI12]. **Alarm** [LRM+10]. **Alaska** [GSA+19, Yas16, AHS11a, BBC+14a, BBC+14b, BDM+10, BCS19, CTS+15, CHS+11, DSHG10, DF11, DHRQ10, EBG18, FSN+13, FRM18, FFYI16, KQ11, MHF12, MSS+11, NRZ+13, OWP+17, WTB10]. **Alaskan** [BES15, MWS10]. **Albert** [Var13]. **Aleutian** [GRS12, Spi12]. **Alevins** [RB13]. **Alewife** [CBMR14, EBA+19, MJS+19, MCO+10, SPR+16, SRP+18]. **Alewives** [FHCSN12, GGS10, GDG+15, RBK+11]. **Alga** [VFFP13]. **Algorithm** [MDP12]. **Alkaline** [BRGR10]. **Alligator** [BSR12, BSD13, DSM18, FDSB18, LS16, MSD18, RAB+18, SDSB18]. **Allometric** [CTN11]. **Alluvial** [AM13, BHP+15]. **Along** [ZHWR11, BT16, FWSW+15, GRS12, HT13, RSL11, SGP16, TT17, WB15a, WBMG10, YYA+16]. **Also** [Hoe17]. **Altamaha** [PB13, SP10]. **Alter** [CS16, LUC+15]. **Alteration** [FPD12, SWS10]. **Altered** [DSRA12, LSSYL10]. **Alternate** [JDS15]. **Alternative** [BVA11, MNM+17, NYCC19, RKEB13b]. **Ambient** [LRM+10]. **America** [BDTD17, BWDM11, GMB+19, PSGB13, Wei10, WBW+13]. **American** [Chi13, Chr14, Gid14, HKO+18, LDA+13, Nel14a, Ryp13, SRMB+15, Zyd11, ACK17, Ano13b, Ano14b, Ano16, Ano17b, Ano19i, BJA+13, CPS+15, CTP+12, CEM+19, DMCO11, DMHO12, EWSR16, FSW10, FBB+13, GPBA18, GBZ14, HCR14, HTR13, HBB17, HHES13, HEW12, HMO14, MLC13, RH14, RLL+19, SJGL16, SH12, SS15b, SAH+14, WL13, ZZMC13]. **amidst** [KGC+12]. **Ammocoetes** [HB17]. **Among** [HN13, PF11a, BLCN+10, BSS18, BGB+16, BEMF11, CN11, CR10, CGB19, CJG13, EFC+11, FBWZ19, FBS+14, HR15, HLB14, HRR+11, HBTT11, HSE+12, KDS18, LEM+11, MHN11, MSWS10, MFAS+12, MWSS13, MLBS+13, PPF+13, PHM17, PTPS10, PL13, SCC17, SF15, WSI14, WSQ+15, WKS+19, WCQD18, WLW16]. **Among-Pass** [PF11a]. **Among-Stream** [HN13]. **Amplifier** [KM10]. **Anadromous** [BBC14c, BWRA16, BCS19, GGS10, GDG+15, GDST16, HCZ13, HS13, HMO14, MC14, PBW16, RHW15, SHM+12, SR15, SHC+16, SHCB16].

Anadromy [HGB+16, NZF+11, WAR12]. **Anaerobic** [SB12a]. **Analog** [MWS10]. **Analogs** [KPZ+12]. **Analyses** [AHS11a, BL11, DWE+18, DSRA12, WMW+12, WMG+14]. **Analysis** [BMP+17, DCJ+13, DYWY17, EPT+16, FSN+13, GvdHBC12, GKBG12, GRS12, GNV+14, GWG+19, HH11, HHJH17, HWH10, HDH16, HCNL10, KHHG13, KPZ+12, MSW+10, MVK12, PZS17, RB12, RHKD12, RMMGPB16, RBK+11, SPM+17, SBC+16, VSC15, WB13b, ZM10]. **Analytical** [PSM12]. **Analyzed** [GSVS+10]. **Analyzing** [RPSB14]. **Ancestry** [MMY12]. **Ancient** [DKS18]. **Andrew** [Chi13]. **Anesthesia** [CJL+14]. **Anesthetic** [VSBB+14]. **Anesthetics** [BLG+13]. **Angled** [HBC15]. **Angler** [CML19, LSV+13, RSBF14, SC13]. **Angler-Caught** [RSBF14]. **Angling** [ARC+13, BDS10, BNW+12, DKS18, HVD+16, LUC+15, PWP13, THL+17, VWS13]. **Angling-Induced** [THL+17]. **Angling-Sized** [BDS10]. **anguillicaudatus** [KU12, UK14]. **Annala** [Chr14]. **Annual** [CR10, GDST16, KHW+14, MKH10, MBL+18, PGWS15, REN17, SR10, ZKH12]. **Annuli** [DMCO11]. **Anthropogenic** [BDTD17, TW14]. **Antipredator** [SS15b]. **Apache** [PB17, RB13, RBF14]. **Apalachicola** [YITI12, SYH+15]. **Aperture** [BDM+10, TFM+18]. **Apex** [HB18, KBG+18, SGK16]. **Appalachian** [BMP+17, FK18, FKF+19a, FKF+19b, KP14, PHHM12, TNS+14, WK13, WCD+11]. **Apparent** [HMSG+11, PGWS15, WCQD18]. **Applicable** [DMCO11]. **Application** [BBG+18, CVL+19, CYW+19, FSN+13, PPF+13, VSC15]. **Applications** [HS17, MH11]. **Approach** [ACRA10, Chr14, Gre12, GBF12, HJS+16, JDS15, KP14, KRM13, OGM+15, PSM12, THGA15, TNS+14, WRP+12]. **Approaches** [TBGM12]. **Aquaculture** [CEM+19, DHB15]. **Aquaculture-Based** [CEM+19]. **Aquatic** [HWH10, KBG+18, MWS10, NTHR18]. **AQUI** [BTWB17]. **AQUI-S** [BTWB17]. **Arancibia** [Fle16]. **Arber** [Chr14]. **Archipelago** [BRS+12, KGC+12]. **Archival** [NB12, RMDA11]. **Archived** [OPS+14]. **Arctic** [BCS19, BS13, BDM+10, CHH+16, CPP+14, DHA+17, DMW+19, GDST16, RPC14, SS18b, TFM+18, WRP+12]. **Area** [EBG18, GWG+19, HGS+16, TBL+17]. **Areas** [ASJ17, BDM+10, FM17]. **Arizona** [DSAM12, ESD+17, CYP11, SRMB+14, Sto10]. **Arkansas** [FM17, GBF12, SJ11]. **Aromatic** [MHPB14]. **Arrival** [BA13, MM17, RCC+13]. **Arrowtooth** [MHF12]. **Arroyo** [BMOF16]. **Artificial** [AIC13, DSB+18, EWW13, PS14, SKP+10, SHR+12, SAW+17, WZCT12]. **Asian** [CCL+19]. **Assay** [CHO+15, LSD+14]. **Assays** [BSSM12, DPS14, GMB+19]. **Assemblage** [BWHF17, BR11, BKC+19, CT16, FQW+10, HCD10, JZBP16, KGC+12, KCZH14, KP14, Lan16, MRPW19, MSK15, MKK15, MBG+11, PTWK11, RBZ+17, WSQ+15, WB15b]. **Assemblages** [AM13, BEWM10, BP10, CHPG12, DSBS14, DM11a, GBW16, GWG+19, IB14, KWW14, MP10, MKH13, RW11, SFB16, SGB13, THNG14, TF13,

WDR16, WCZ+18, WK13, WBWSK12, vVO10]. **Assess** [BES15, GvdHBC12, JPFB13, KMKS13, MLS+13, RAB+18]. **Assessed** [SJFF15]. **Assessing** [ARC+13, CCH15, Gre12, HMTC12, HARL18, JRBC13, Lis14, Lis15, MCH+13, NDC+14, PWP13, RNG+13, WK13]. **Assessment** [BBAK19, BSCA17, BBS12, CGDL18, DHA+17, DBC+10, FSC+13, HSS17, HCW14, HLH14, HKZ11, KCZH14, KVA+19, LSJN13, MCW+14, MT19, OSA+17, RL14, SJMG14]. **Assessments** [LDP19, RJ11]. **Assigning** [GBB+14]. **Assist** [LFB+15]. **Assistance** [RHR+15]. **Associated** [ARB+18, ACRAM11, BNC+15, BGV11, CM11b, DSBS14, GPBA18, GWG+19, HHJH17, JC16, NZF+11, VJGV11]. **Association** [CBW+16, DHB15]. **Associations** [BQHR17, CAB11, DGMC17, DWGF11, FBWZ19, HGSG17, Lan16, SL16]. **Asymmetric** [WDDS13]. **At-Risk** [FBWZ19]. **Atchafalaya** [MKK15]. **Atlantic** [AKM12, DG19, GN13, Han18, JZBP16, NG13, NAWM14, RBE+10, ASJ15, ASJ16, ASJ17, AHS10, AS17, BMF+15, BP16, BHLK10, BMGL12, BGV+12, BLG+13, BK11, BMC+13, DCS+17, FZZ+10, FBP11, FP19, FGW+16, GvdHBC12, GCA+18, Goo15, HKW+14, HPF+16, Han11, HCR14, HSS17, HKZ11, HMSG+11, HWN15, HWHF14, KHW+14, KSSK+17, LKS+12, LMPvdH18, LRM+10, LUC+15, LKP+13, LSJN13, MSK15, MSP12, NCW+17, PDSP+11, RSG12, RJ11, SMJ14, SF15, SP10, SWB+16, SFH15, SZZ10, TL17, TLKT17, VJGV11, VHPP19, VSC15, WNCF10, WCZT11, WZCT12, WS15, WMW+12, ZHWR11, ZZD10, dHST13, vZNW12]. **ATPase** [SZZ10]. **Attached** [JBC+12]. **Attachment** [JDS15]. **Attacks** [SS15a]. **Attention** [LMPvdH18]. **Augmentation** [CCKF11, HBTT11]. **Australia** [Ber13]. **Australian** [Ber13, HBC15]. **Authors** [Ano11b, Ano12b, Ano13b, Ano14b, Ano16, Ano17b, Ano19i, SRMB+15]. **Autosomal** [MSWD15]. **Availability** [HSSS16, KGW14, KM14, MBH12, PW10a, RSL11, TES14, YCB+11]. **Available** [Yas16]. **Avian** [EHR+12, EPT+16, EPC+19, HERC12, HEC+15, KKB+10]. **Avoid** [AJFO10, AJF13a, HD16]. **Avoidance** [JBC+12, SPH19].

B [LDA+13]. **Back** [BSM13, CC16, PM13]. **Back-Calculated** [CC16]. **Back-Calculation** [PM13]. **Back-Calculations** [BSM13]. **Backpack** [PVJH15]. **Bad** [RKEB13b]. **Baits** [HBC15]. **Baja** [FRRCGA+15, TRHHOGSJ14]. **Balance** [JPG+18, TJB+14]. **Balancing** [MDP12]. **Baltimore** [Qui16]. **Bank** [RBZ+17, JPLS13, ZC13]. **Banking** [BMTP13]. **Barcoding** [PCFH17]. **Barge** [BWD+17]. **Barker** [CBSB15]. **Barotrauma** [BS16]. **Barracuda** [BNS+14]. **Barrier** [BWRA16, MCW+14, WCMP13, WAR12]. **Barriers** [WZC+14, WCN+19]. **Base** [MP10, OGM+15]. **Based** [CJL+14, CEM+19, Dud19, EHR+12, EPT+16, FBH+13, FA10, GKBG12, HSA+16, Hoe17, KR18, NCW+17, PPH15, PMN19, RSB14, RKEB13a, RKEB13b, SDBB12, SDSB18, SL16, TL17, THGA15, UNTA10, WR14,

WBWSK12, ZM10, WCN+19, vPWT12, WRP+12]. **Baseline** [RKEB13a]. **Baselines** [RKEB13b]. **Basin** [BDTD17, BAHP11, BHD+16, BCF+11, BBS12, CM11a, EPS+15, EMS+14, HGBE16, HHES13, KPZ+12, KCMS11, MKK15, MFR15, OTR+14, PTPS10, PDP12, PPC13, PPMJ14, PPW+14, PPJ15, RL19, SK11, WDHW14, WMW+12, ZBW10, ACRAM11, DWGF11, DWG14, EBF+14, FWBT17, HLB14, HCW14, HN11, JRP12, JAA+13, KBC+18, KK16, KHHG13, MHN11, MWG18, NHM10, PGJ11, RDR+10, SYH+15, SJ11, SMY11, SS13, Str10, Str12, SWP+18, WDR16, WAW11, WM12]. **Basin-Scale** [HGBE16]. **Basins** [KMKS13, VFFP13, ACRA10]. **Bass** [ARC+11, ARC+13, BLCN+10, BLCB13, BN16, BNW+12, BB10b, BAR15, CSDW10, CBW+16, CDB10, CCB16, DF12, DA12, DMHM+18, EFC+11, EPW15, ETC18, ER18, FDWG13, FRBA13, GWB+15, GDWD10, GA10, HHJH17, HBS12, HVD+16, HDF12, HPHB10, KGC+12, KTE+14, KAH16, KHD+14, LSJN13, LAR16, LV14, Lov11, LS10b, LCHB+18, MS13, MFH13, NDC+14, Nel14a, NLF13, NTHR18, NDW10, PW10a, PWP13, PMF+10, PET+17, RHKD12, RO16, SPC+18, SA14, SA16, SM13a, SAS17, SH12, SMH+11, SS15b, TRW10, TPA14, TPLA16, TAM15, THL+17, TBGM12, VWS13, WCZT11, WZCT12, WSK11, Nel14a]. **Basses** [TA12]. **Batch** [GDG+15]. **Bathythermal** [BAKT12]. **Bay** [ARL+12, DHRQ10, FSW10, GCM12, Gre12, IHTF11, JM14, RSG12, TT17, WLLCF16, WMW+12, BAHP11, BL11, CMM+17, HWHF14, Lov11, LN18, OSA+17, OGM+15, RL14, SMJ14, TLKT17, TF13, WF11, WLW16, WSK11]. **Bayesian** [DL13, SL16]. **Bays** [DSM18]. **Beach** [TT17, WF11]. **Bear** [CHT13]. **Beat** [MBBM10]. **Beaver** [LRW13, KGC+12]. **Bed** [FSFS17, JPSM12, MKH10, MLB18]. **Beds** [DSBS14, FWSW+15]. **Behavior** [BGW+17, BNS+14, CEFQ11, DMR+10, EWW13, EGAW12, FK18, FKF+19b, KCJ+15, LUC+15, MCSF14, MBT10, MCH+13, PDP12, RH14, RSG12, RGP17, SKP+10, SS15b, SHP+19, SPH19, TBL+17, TPLA16, TKC+18, WEW12, YSC10]. **Behavioral** [BCF+13, BSCA17, GWB+15, KBG+18, LRM+10, NPW12, PET+17, SAF+19, SHH+19]. **Behaviorally** [MCP+15]. **Behaviors** [CW11]. **Behind** [PJ11]. **below** [BLB+13, WAR12]. **Benefit** [Lan16]. **Benefits** [DCBKR14, HWD14]. **Benthic** [HLB+16, KS11, PSH+19, SS11, SAH+14, WDWC10]. **Benthivorous** [MLBS+13]. **Bering** [BBL+12, SSH+11a, SS15a, SS18b, BCP+11, BD15, GRS12, HSM+10, PBW16, Spi12]. **Berkeley** [Var13]. **Best** [RPVS15]. **Bethesda** [Chi13, Chr14, LDA+13, Nel14a, Ryp13, Zyd11]. **Better** [HUMG+18, TP11]. **Between** [AJF13a, Ano11a, BP13, BWRA16, BGOQ13, CBVF15, CHO+15, CHLN15, CM11a, DWN+15, EHC+14, FRBA13, Han18, HPHB10, JPLS13, KGC+12, KRRW18, LBC10, LHHL17, MJS+19, MOS13, NMH12, OPS+14, PB16, QSJ12, RHW15, RZW+12, RNG+13, RMW16, RB18, SB12a, SRMB+14, SPR+16, SE11, STK12, TC11, WDDS13]. **Between-Group** [AJF13a]. **Bias** [AJFO10, ELC13, KDS18, LSJN13, RL14]. **Biased** [MJGV14, SDBB12]. **Big** [PDM+14, DHA+17]. **Bighead**

[GGC17, HGSG17, LYX+10, LLWW19, SPC+18, ZRM+16]. **Bigheaded** [DAA+16]. **Bile** [YSW+14]. **Binomial** [IWB+13]. **Bioassessments** [FA10]. **Bioclimatic** [CM11b]. **Biodiversity** [BNS+16, SJ11]. **Bioelectric** [GvdHBC12]. **Bioelectrical** [DYWY17, HH11, HHJH17, VSC15]. **Bioenergetic** [AMBM12]. **Bioenergetics** [CORM13, Har17, HD16, HBHS15, JMM+11, KWS14, MDP12, MWC+13, MBBM10, PM15, SSS+12, UNTA10, WvPC12, WBH10, ZLHS10, vPWT12]. **Biogeographic** [MSBT10]. **Biogeography** [Var13]. **Biological** [RJH12, WAFL10]. **Biologically** [BNTT17]. **Biology** [ABM17, BCS19, BCMPDSZ10, CABNQ+13, CTG14, Fle16, GSR+11, Gol18, HL10, HAV+19, KSSK+17, MWSS13, Mil19, NG13, Pag19, Pra14, Shi13, Nel14a]. **Biomass** [MCO+10, PT10, STZ13, ZM10]. **Biomass-Based** [ZM10]. **Biometric** [MSD18]. **Biotelemetry** [DMR+10]. **Biotic** [MAK12, PKP+17]. **Black** [GMB+19, KAH16, MS13, SM13a]. **Blackfoot** [PPW+14, EPS+15, PDP12, PPC13, PPMJ14, PPJ15]. **Blackgill** [LF15]. **Blackspotted** [GMP+11]. **Blackwell** [Fle16]. **Bloater** [CBMR14, EBA+19, PB16, PRK+16]. **Bloaters** [BMR+12, PBM+12]. **Blood** [BS16]. **Blooms** [JC16]. **Blue** [BT16, CTN11, DDMR10, DK18, Goo15, HAR18, OWS16, RL14, RBE+10, SO15]. **Blueback** [MHHH10]. **Bluefin** [AGH18, Gol18]. **Bluefish** [MJGV14, MBL12, TT17]. **Bluegill** [CHLN15, MFH13]. **Bluegills** [OWN11, OWP13, PM10, SW11, SBW14]. **Bluehead** [FWBT17, WvPC12]. **Bluntnose** [WAFL10]. **Boats** [Lev18]. **Boca** [Shi13]. **Bodied** [AUDL18, Cla16, HW14, SRMB+14, SFF14]. **Bodies** [LBBW17]. **Body** [Ano11a, BS13, CTN11, GvdHBC12, KM14, KHF+18, Mic10, PW10b, PKL+11, RR13, SW11, TRLG13, TB16, TC11, VSBC13]. **Bomb** [GDWD10, MLC13]. **Bonneville** [BDTD17, CR10, HK12, KST+12]. **Bonytails** [OSDT18]. **Book** [Ano10a, Ano10b, Fle16, Nel14a, Qui16, Yas16, Pet15]. **Boom** [KYK17]. **Boom-and-Bust** [KYK17]. **Bootstrapping** [SMN+10]. **Borderlands** [BB15]. **Boreal** [BDS10, BSHK+11, LSPB11, TPBB14]. **Borrow** [MKH13]. **Borrow-Pit** [MKH13]. **Both** [CPS+15]. **Bottleneck** [KWCI10, KCM14]. **Bottom** [KS11]. **Bottomless** [RC16]. **Bottorff** [Yas16]. **Bradford** [Chi13]. **Branchiostegal** [BSSP18]. **Brassy** [FBF10]. **Brazilian** [CBW+16]. **Brazos** [RMW16, VFFP13]. **Breder** [RC16]. **Breeders** [BSS18]. **Breeding** [JCS14, MGWP10, SKP+10]. **Bristol** [DHRQ10]. **British** [BNS+16, MPHG10, NBC15, TA13, WAKH12, Bea10, BBC+14a, BBC+14b, MKH10, PGR13]. **Broad** [BDM+10, HLR+12]. **Brood** [LS10b]. **Brook** [AGKW12, BSGB17, BGLP19, BBAK19, BB10a, BMP+17, DW16, DW15, HH11, HCNL10, JK17, KLR+15, KHK+15, KMS+18, KRRW18, MCW+14, MFAS+12, Mit16, MWKS13, NB13, PHHM12, RMM11, RJWK10, SDW17b, TPBB14, TNS+14, WDDS13, WKS+19, WCD+11]. **Brown** [AMM+16, DW16, DH11, FWB+15, Har17, JC16, JLA17, KRRW18, KRM13, Mil19, Mit16, OS11, SHR+12, SDW17b, WDDS13, WMS15, WBH10, YHWH10]. **Brunswick** [UWL12a, UPT+13, DCS+17, TL17, UWL12b]. **Budget**

[MDP12]. **Buffers** [FQW+10]. **Bulak** [Nel14a]. **Bulkley** [WAKH12]. **Bull** [ACMM+15, ACDL19, ADS+11, BP13, BHD+16, CAB11, FH17, HCS+16, LB15, MWC+13, NAWM14, PPP+13, SK11, WBR11]. **Bullfrogs** [ACK17]. **Bullhead** [Har17]. **Bumpers** [GCA+18]. **Bundle** [MWS10]. **Buoyancy** [PBC12]. **Buoyant** [JBC+12]. **Burbot** [AIC13, BJA+13, BQHR17, CVL+19, CJGH13, CJG13, GRDO13, GS13, HP13, HUMG+18, JWHJ13, KSB16, SM13b, SWC13, SNI+13, TA13, TASC17]. **Burrhead** [PSGB13]. **Bust** [KYK17]. **Butte** [CNM+18]. **Butterfly** [BN16]. **Bypass** [SO12, HSG10].

C [Chi13, LDA+13, Nel14a, Shi13, GDPW10, VSBC13]. **Cage** [JKP10]. **Cairns** [Zyd11]. **Calcified** [KDS18]. **CalCOFI** [Pet15]. **Calculate** [SMN+10]. **Calculated** [CC16, STZ13]. **Calculation** [PM13]. **Calculations** [BSM13]. **California** [Gid14, Pet15, TRHHOGSJ14, Var13, ARL+12, BSC+10, BGB+16, BHP+15, CT16, FSP+17, FRRCGA+15, GLM+15, GGHS+14, GHPS+16, GNMM12, JM14, LHHL17, LSSYL10, MSD+19, MDT10, NLF13, NR16, PHM17, RG16, RL19, SMO+14, SCC17, SMS+12, TVL+12]. **californiensis** [MFR15]. **Callinectes** [DDMR10, DK18]. **Calorimetry** [GDWD10]. **Cambridge** [Cha13]. **Camera** [GWG+19]. **Campeche** [JPLS13]. **Can** [BMF+15, CGL+11, FH17, HKR18, HGS+16, MCP+15]. **Canada** [BNS+16, CHH+16, Han18, JKP10, LMPvdH18, NBC15, UWL12a, UPT+13, WMW+12]. **Canadian** [BDS10, BCP+11, DF11, WCYH18]. **Canadian-Origin** [DF11]. **Canal** [CKFQ11, GBW16, Esh14, MBT10]. **Canals** [SO12]. **Candidate** [NZF+11]. **Candy** [DA16]. **Canning** [BCS19]. **Canyon** [CYP11, SRMB+14, WvPC12, YCB+11]. **Capability** [CJM+15]. **Cape** [DCBKR14, SH12]. **Captive** [FS16, HL10, RNG+13, SVKK18]. **Captive-Reared** [SVKK18]. **Captivity** [JPG+18]. **Capture** [BMC+13, HLK11, LSV+13, MSH+14, RCC+13, RHR+15, TL17]. **Captured** [DCS+17]. **Carbon** [DAA+16, QSJ12, SPH19]. **Carcass** [KPZ+12, MWS10, RSB14]. **Carcasses** [WHC+10]. **Caribbean** [HAV+19]. **Carmel** [Smi13]. **Carolina** [RH14, THNG14, AAD14, BRA14, CTP+12, CEM+19, DDMR10, DK18, FBH+13, HARL18, MKA10, MWT14, MVP15, RLL+19, SH12, SFH15]. **Carp** [BBZGB15, BW10, GGC17, GMB+19, HGSG17, LBBW17, LYX+10, LLWW19, SS13, SWP+18, WB13a, WB13b, ZRM+16]. **Carps** [DAA+16, SPC+18]. **Carrier** [Shi13]. **Carryover** [AW19]. **Cascade** [THKG10]. **Case** [KCM14, MRPW19, PGW+11, RJ11]. **caspia** [ARL+12]. **Caspian** [ARL+12, MGWP10, SCL+13]. **Casselman** [Zyd11]. **Catalina** [LSSYL10]. **Catch** [AJFO10, AJF10, AJF13a, AJF13b, CML19, FM17, Goo15, HAG13, HJS+16, HGP+17, LUC+15, Sto10, TP11, WAFL10, YJW11]. **Catch-and-Release** [FM17, LUC+15]. **Catch-Rate** [YJW11]. **Catchability** [HJS+16, KS11, PTPS10, RSVAB19]. **Catchable** [MHE12]. **Catchable-Sized** [MHE12]. **Catches** [CM11a, VIW+17]. **Catchment**

[YYA+16]. **catesbeianus** [ACK17]. **Catfish** [BK11, FBP11, LS10a, MSB+18, MBEvdB+10, SO15, SSR+17]. **Cating** [DMCO11]. **Catostomid** [Lan16]. **Catostomids** [BBF+18, BFH14, SFF14]. **Catskill** [BEWM10, EBMV10]. **Cattaraugus** [HDBS14]. **Caught** [DDMR10, RSBF14]. **Cause** [Mit16]. **Causes** [FSRK11, TLM+19]. **Cautionary** [ACWIK13]. **Cedar** [BLB+13, TW14]. **Census** [MLS+13]. **Central** [CM11b, DDMR10, NRZ+13, PTWK11, RHKD12, SCC17, SHR+12, SMS+12, TVL+12, DG14, JPHK10, MBPP18, PDH+18, RL19, SDW17b]. **Centrarchid** [AM13, MKK15]. **Cephalopod** [PM19]. **Ceratomyxosis** [FMG+11]. **Ceratonova** [CRC+16]. **cerebralis** [FWB+15, KKB+10, PDP12]. **cerebralis-Resistant** [FWB+15]. **Cetaceans** [Cha13]. **CFT** [ACK17]. **Chain** [BSC+16, HRHS16]. **Challenge** [SKBS18]. **Challenged** [BRGR10]. **Challenges** [ACB+14]. **Champlain** [Esh14, HML13, SPR+16, SRP+18]. **Change** [BAKT12, FSFS17, FBWT19, LSSYL10, MDT10, NB12, RA10, SNC+10, SRP+18, SWS10, WHSK19, ZTC12]. **Changes** [BCRP13, BS15, CTPM13, HSSS16, HK12, KGC+12, KCS+19, KR18, PT10, PRK+16, RSL11, RSBF14, SWC13, SWS10, TJB+14]. **Changing** [EBA+19, Har17, JMB+13, Mit16, SDOK19]. **Channel** [BEWM10, EBMV10, FSFS17, LS10a, PPJ15, SSR+17, WSQ+15]. **Channels** [MC14, RBZ+17, WHC+10]. **Char** [CPP+14, GDST16, SDK+10]. **Character** [FGW+16]. **Characteristics** [CKC+12, CJG13, DCS+17, EPW15, HDH16, HERC12, MKH10, MP10, MK15, PSM12, PGW+11, PGVG15, SDW15, SMS+12, VB14, WSI14, WQD14, WAFL10]. **Characterization** [CTP+12, KCJ+15, MJHP18, WBM+17]. **Characterize** [BDM+10, DFB15, FWSW+15, LMD+17, WRP+12]. **Characterizing** [ACWIK13, BES15, CHS+11, GZB12, HCD10, RJ11]. **Charles** [Nel14a]. **Chattahoochee** [SYH+15]. **Chemical** [LRM+10, NYCC19, TBGM12, TL14, ZSVK13]. **Chemistry** [BBG+18, CBVF15, CC16, NW14, SMJ14, SYH+15, SBC17]. **Chesapeake** [BL11, WF11, CMM+17, FSW10, HWHF14, Lov11, LN18, OSA+17, OGM+15, RL14, SMJ14, TF13, WSK11]. **Chicago** [Pra14, Smi13, LLWW19]. **Chichester** [Fle16]. **Chignik** [CHS+11]. **Chinese** [FCG+17]. **Chinook** [Ano11a, Bea10, BHS+17, BS18, BNC+15, BVA11, BBM+14, BWD+17, BRK+18, BDBE11, BBS12, BEMF11, BCG+12, BLB+13, CJL+14, CHO+15, CEFQ11, CKFQ11, CFHE11, CC16, CTS+15, CTPM13, CVB14, CNM+18, CTK+17, DF11, DEW+14, DWE+18, DWE+19, DBC+10, DML+10, DBS+10, EMS+14, ETC18, FJP18, FWT+14, FPM15, FMS10, FMG+11, GCG+18, GDM+10, GDM+11, GJC+18, GA17, GSA+19, HMTC12, HLB14, HBB17, HRR+11, HSG10, HN11, HM17, JMB+13, JBC+12, JJC12, JRP12, JAA+13, KQ11, KK16, KHHG13, KRM11, KRM13, LBC10, LHS+13, LHHL17, MM17, MSBT10, MHN11, MBH16, MM10, MGK+18, MCO+10, MCH+13, MCP+15, MSWD15, NHM10, NBC15, PBG+11, PJ11, PPF+13, PPH15, PBC12, PM15, RSB14, RGM+11, RT14, SJT+16, SMO+14, SCC17, SKP+10, SCL+13,

SHH+19, SBDW11, SE11, SFLH14, SLG+14, SVKK18, SMN+10]. **Chinook** [Str10, Str12, TRMC15, TM19, TC11, TKC+12, TES14, TKC+18, TTW+11, VBJS10, WHF+12, WM12, Wei10, WBD14, ZKB+15, ZKH12]. **Chiricahua** [ACK17]. **chiricahuensis** [ACK17]. **Chloride** [SSH11b]. **Choice** [TL14]. **Choptank** [AS17]. **Chromosomal** [MGP11, MSWD15, MSS+17]. **Chronic** [DMRK14]. **Chronicling** [OGM+15]. **Chronology** [MCT17]. **Chub** [BB15, BMOF16, CCL+19, DSRA12, GLM+15, HMW19, LRH12, OMA13, PSGB13, RMW16, SPH+15, WZC+14, WMS15]. **Chum** [HT13, MSS+17, PGS13, RCC+13, STS+14, WAD+17, WRP+12]. **Cichlid** [BMH19]. **Cisco** [BHG+10, FJJ+12, HDH16]. **Ciscoes** [BD15, PBW16]. **Clair** [FPR+18]. **clarkii** [SPM+17]. **Class** [CPP+14, MBPA13, PW10a, SWP+18]. **Classification** [WBWSK12]. **Cleaner** [WHSK19]. **Cleaning** [GNV+14]. **Clear** [GZB12]. **Clearwater** [TKC+18]. **Climate** [AMBM12, BBL+12, FJJ+12, FBWT19, Har17, MDT10, RR13, SNC+10, SWS10, UACS+19, WAD+17, ZTC12]. **Climate-Growth** [RR13]. **Climate-Related** [UACS+19]. **Close** [YSC10]. **Closed** [MSH17]. **Closing** [JLA17]. **Closure** [BHC+13]. **Closures** [BDBE11, GA10]. **Club** [VWS13]. **Clupeid** [HMO14]. **Cluster** [Nel14b]. **Co** [PDP12]. **Co-occurrence** [PDP12]. **Coancestry** [BSS18]. **Coanda** [PPW+14]. **Coarse** [DW13]. **Coast** [FRRCGA+15, SMS+12, Wei10, YYA+16, ASJ16, GSVS+10, KSSK+17, TVL+12, ZHWR11]. **Coast-Wide** [ASJ16]. **Coastal** [AGJ11, AGKW12, BGB+16, BKC+19, BAR15, BGOQ13, CHPG12, CYW+19, DGMC17, DSM18, DF12, FHCSN12, GGHS+14, HRB+16, Han18, HBTT11, HCZ13, HCZG15, KHD+14, KWW14, MSK15, MSD+19, MP10, MPM+14, NDW10, OSA+17, OWS16, PGJ11, RHEF19, RSL11, RG16, RBH+12, RRG+17, RL19, SFB16, SGP16, SR15, SSM16, THNG14, TH15, TTM+15, vVO10, SMO+14]. **Coastwide** [ASJ15, WMG+14]. **Cobia** [Ada18]. **Cochlodinium** [RGP17]. **Cod** [DCBKR14, Han11, MHF12, PDSP+11, SS15a, Spi12]. **Coded** [HB17, HSA+16, Wei10]. **Coding** [GPBA18, NB13]. **Coexistence** [CHT13]. **Coho** [AKK+19, BWDM11, BNTT17, DSHG10, FSJ+11, FWT+14, FBS+14, FRM18, GWOD18, GHPS+16, HGBE16, HWH10, JPSM12, JADJ+14, KBC+18, LPM+17, MSD+19, MGW13, MSS+17, NMH12, NRZ+13, OPHD18, PKL+11, QHS+13, RRA+15, RKF+13, RBH+12, WTB10]. **Cohort** [TA13, ZM10]. **Cold** [FBJR11, IB14]. **Coldwater** [MSH17]. **Collected** [DPS14]. **Collection** [PCT+12]. **Collections** [BGV11]. **Collectors** [KVA+19]. **Collingwood** [Ber13]. **Colonial** [CML19]. **Colonization** [Esh14, HHES13, KBC+18, WCMP13]. **Colony** [ARL+12, MGWP10]. **Color** [PSM12]. **Colorado** [DWGF11, DF14, FWBT17, MWG18, Sto10, VFFP13, ZBW10, CYP11, CRH10, DF14, GBF12, HNV+18, SRMB+14, SPH+15, YCB+11, ZBW10, ZBHW16]. **Columbia** [BNS+16, EPC+19, MC14, NBC15, RDR+10, RT14, ACRA10, ACRAM11, Bea10, BBC+14a, BBC+14b, BSHK+11, BCH+11, EHR+12, FWT+14, HJM+12, HLB14, HTR13, HBB17, HN11, HHES13, HS13, JAA+13, KK16,

KPZ+12, MPHG10, MKH10, MGWP10, MHN11, MBH16, MOS13, NHM10, PGR13, SZGS12, SJT+16, SCL+13, TA13, WAKH12]. **Combination** [SS13]. **Combined** [BWD+17]. **Combining** [GA17, HUMG+18]. **Comment** [ARC+13, CCH15, Lis15, PWP13, SKBS18]. **Commercial** [DCS+17, KQ11, PGS13, WCYH18]. **Common** [BSS18, BBZGB15, BW10, GN13, LDLH15, LBBW17, MOS13, NG13, NLF13, RNG+13, SS13, TBTS12, WB13a, WB13b, WBMG10, YYA+16]. **Communication** [LDA+13]. **Communities** [BGLP19, ERL15, GS16, NJ12, SJT+16, WHSK19]. **Community** [BBL+12, BES15, CGM15, DGMC17, FPD12, HCZG15, MWS10, MWT14, RSBF14, STK12, TJB+14, HCD+14]. **Comparative** [BLB+13, CBMR14, FA10, KWS14, ZC13]. **Compare** [TPLA16]. **Comparing** [ARB+18, MBL12, PPF+13]. **Comparison** [BLG+13, BB10a, BN16, BSC+16, CM10, CBSB15, CNM+18, DM11a, DEP+18, DSB+18, ELC13, GGC17, HLB+16, HOGO10, Han11, HDBS14, HS13, KGC+12, KCZH14, MSD18, NMH12, OWN11, PNMH+12, PET+17, QHS+13, RC16, RNG+13, SMO+14, SAW+17, THGA15, YJW11, HGS+16]. **Comparisons** [BT16, HNV+18, OPS+14, PF11a, RBE+10, TT17, WCQD18]. **Compensation** [SA16]. **Compensatory** [RBK+11]. **Competition** [DMRK14, HWN15, JBV13, PKL+11]. **Complementary** [CR10]. **Complex** [AFHF12, FFYI16, KWW14, PHHM12, PPW+14]. **Complexity** [Con17, DWG14, DW13, JADJ+14, LF15, WDWC10]. **Components** [IWB+13, KAH16, PDSP+11, SF15, YSW+14]. **Composition** [BAKT12, BCM+19, CHLN15, CBM15, EMS+14, FDWG13, GJC+18, JC16, JPHK10, KHD+14, PPF+16, PM14, PDH+18, SJT+16, SFLH14, ZSVK13]. **Compressed** [KHF+18]. **Computational** [GKBG12]. **Concentration** [FWD10, SJGL16]. **Concentrations** [MHPB14, SARC13, WNCF10]. **Concept** [BYM19, PRW+10, TH15]. **Concern** [PVJH15]. **Concerns** [Zyd11]. **Condition** [BMC+13, BS13, CTN11, CT16, CM11a, DYWY17, EHC+14, FKF+19a, GvdHBC12, GA17, HOGO10, HHJH17, HML13, HER+11, KHF+18, MAK12, PRK+16, RNG+13, RT14, SF17, TRMC15, WDR16]. **Conditions** [AS17, BJA+13, CM11b, CPS+15, FS16, FRRCGA+15, GA17, HR15, HERC12, JPSM12, KCJ+15, Mit16, MWG18, SLG+14, Str12, TFM+18, WB13a]. **Confer** [DWE+19]. **Confidence** [SMN+10]. **Confirm** [ESD+17, EBF+14]. **Conflict** [LBC10]. **Conflicts** [GKG+19]. **Congeneric** [PL13]. **Connection** [MC14]. **Connections** [JPLS13]. **Connectivity** [DM11a, ERL15, KWW14, Lan16, STK12, WCN+19]. **Consecutive** [JPG+18]. **Consequences** [ACMM+15, BMC+13, Goo19, JSW+15, PET+17, TRW10]. **Consequent** [TTM+15]. **Conservation** [AGKW12, ADS+11, BMF+15, BYM19, BLCB13, BMOF16, BGV11, CVL+19, DKS18, DF12, FPM13, FBS+14, Fre19, LRH12, LFB+15, MDD+16, SDOK19, SDSB18, SPH+15, WCYH18, Zyd11]. **Conserved** [GGP+15]. **Consider** [ARC+13, Hoe17, PWP13].

Consideration [EPS+15]. **Considering** [MAH+12]. **Consistency** [SBMH12]. **Consistent** [PHG+16]. **Conspecific** [SJGL16]. **Constant** [GDM+10, HR15, ZBC+13]. **Constraints** [HBB13, WDHW14]. **Construct** [PMN19]. **Constructed** [FSFS17]. **Consumer** [BR14]. **Consumers** [FH17]. **Consumption** [FM17, HBB17, JBV13, KLS17, KSB16, MBH12, MCO+10, PM15, PB16, RBF+11, RJWK10, SSS+12, SHCB16, TES14, vPWT12]. **Contemporary** [HSE+12, KHHG13, WKC18]. **Content** [BL11, JPH17, MBL12, SF17, VSC15]. **Contents** [BSSM12]. **Conterminous** [HTH+17]. **Context** [MAH+12, RCD+11]. **Continental** [GRS12, PDH+18, MAS10]. **Contingents** [NW14, PMF+10]. **Continued** [ZHWR11]. **Continuous** [Dud19]. **Contraction** [RG16]. **Contrasting** [CBM+13, DWE+18, NRZ+13, PNM+10]. **Contrasts** [SMS+12]. **Contribute** [TES14]. **Contributing** [HM17, SMMK12]. **Contribution** [ASJ16, ASJ17, BNS+16, GLM+15, NDC+14]. **Contributions** [Stu18, THL+17, WBR11]. **Control** [BBC14c, CHB+12, CYP11]. **Controlled** [CPS+15, KKM11]. **Controlling** [LV14, NAG13]. **Controls** [BPS11, SS13]. **Cool** [BNC+15]. **Copepoda** [MFR15]. **Copepods** [Mit16]. **Copper** [AHS11a]. **Copy** [MSS+17]. **Core** [DKD+15]. **Coregonine** [AHS+11b, TFM+18]. **Cormack** [CBSB15]. **Cormorants** [BDS10, DCJ+13, SCL+13]. **Corrections** [HHJH17]. **Correlate** [PSGB13]. **Correlated** [HN11, vS10]. **Correlates** [BS13, WL13]. **Correlation** [GDPW10]. **Correspondence** [CBVF15]. **Corresponding** [SCC17]. **Corridor** [HGG+16, WB15a]. **Corridors** [Esh14]. **Cortisol** [BLG+13]. **Cost** [FDSB18]. **Coterminous** [ADS+11]. **Count** [IWB+13]. **Countergradient** [DKD+15]. **Counts** [DMCO11]. **County** [BHK+10]. **Coupling** [STK12]. **Coutant** [Nel14a]. **Covariation** [CHLN15]. **Cover** [CSDW10, SWS10]. **Covered** [BDM+10]. **Cownose** [CMM+17]. **Crab** [BT16, CGDL18, HCR14, RL14, RMC+17, SBDW11]. **Crabs** [DDMR10, DK18, MBP+11, OWS16, RCM+19, SFF+10]. **Crappie** [MBH12, MS13, SM13a]. **CRC** [Shi13]. **Create** [SSH11b]. **Creek** [BCF+11, MDT10, PPMJ14, PPW+14, PPJ15, WAD+17, CNM+18, HDBS14, QHS+13, SBDW11]. **Creeks** [FBH+13, JPRS10, RLL+19]. **Crested** [BDS10, DCJ+13, SCL+13]. **Critical** [NCW+17, RL14, UK14]. **Critically** [AUDL18]. **Croaker** [GvdHBC12]. **Croakers** [TLKT17]. **Cross** [CHPG12, DA16, GA17]. **Cross-Life-Stage** [GA17]. **Cross-Scale** [DA16]. **Cross-Shore** [CHPG12]. **Crossing** [BP10]. **Crowded** [WB15b]. **Cryopreservation** [BMTP13]. **CSIRO** [Ber13]. **Cues** [LRM+10, VHPP19]. **Culture** [JKP10, SM13b]. **Cultured** [SDOK11]. **Culvert** [ERL15, JPSM12]. **Culverts** [MCW+14, TPBB14]. **Cumulative** [EPC+19, WHF+12]. **Cure** [RPSB14]. **Current** [MMY12, Pet15, RCD+11]. **Curves** [TP11]. **Cutthroat** [BB10a, BRG19, BRGR10, BGOQ13, CKM+11, CR10, CRH10, DZW+12, DWN+15, HBB13, HB18, HNV+18, HK12, HMP18, JJNB17, MSW+10, MPM+14, MKHC17, MDD+16, ODG+11, Pag19, PRW+10, PPW+14, SPM+17, SK11, UACS+19, ZTC12, ZBC+13]. **Cycle**

[BBZGB15, BMM10, KYK17]. **Cycles** [CM10, LKP+13, SSS+12]. **Cycling** [ZKH12]. **Cyprinid** [BB15, HMW19, HKO+18, LRH12, PCFH17]. **Cyprinidae** [HOWS10]. **Cyprinids** [DMRK14, NAG13].

D [Ryp13]. **Dace** [BMTP13]. **Daily** [LS18, TL15]. **Dakota** [LBBW17, PGW+11, WBD14]. **Dam** [BHK+10, BLB+13, FBWZ19, GBZ14, HGB+16, HEW12, HCZ13, HCZG15, HSM12, JZS+19, KCJ+15, QHS+13, RH14, SDW15, SH12, SMN+10, WCZ+18, WBM+17, WZK+15, YITI12, KST+12]. **Dams** [BW10, EWSR16, HUMG+18, KVA+19, LRW13, PCT+12, THNG14]. **Danio** [HKP11]. **Darter** [AFHF12, DA16, GBF12, KLS17, PAG11, PL13]. **Darters** [PSB16]. **Data** [ASP+18, AJFO10, CYW+19, GWG+19, GBB+14, HUMG+18, IWB+13, KM10, KHHG13, MRPW19, PM13, PGWS15, SR10, SMO+14, WMV+16, WBR11]. **Date** [BQF+19, CEFQ11, KGW14]. **Dates** [AS17, SPR+16]. **David** [Qui16, Zyd11]. **Day** [AJF13b, MT19]. **Debris** [TVL+12]. **Decades** [PPC13]. **Decelerating** [EGAW12]. **Deciphering** [BBGB15]. **Decisions** [AS12]. **Declination** [HAR18]. **Decline** [ABM17, BHG+10, NR16, PHM17, SBO12]. **Declines** [HMSG+11, MLC13]. **Declining** [DWGF11]. **Decompression** [PKPS11]. **Decreases** [MJH17]. **Deep** [HBC15]. **Deepwater** [Con17, JDS15, LF15, MAN+12, MHPB14, SFB16]. **Defining** [JJC12]. **Deformities** [BBF+18]. **Deformity** [SO15]. **Degree** [MT19]. **Degree-Day** [MT19]. **Delaware** [TLKT17, HPF+16, TT17]. **Delayed** [PJ11]. **Delays** [VJGV11]. **Deletion** [MSS+17]. **Delineate** [GMP+11]. **Delta** [BSSM12, DEW+14, DWE+18, DWE+19, FSP+17, KR18, LFB+15, NLF13, PMN19, RKEB13a, RKEB13b, SBC+16, YSC10, PBB+15]. **Delta-Reared** [DWE+19]. **Demand** [SHCB16]. **Demersal** [AW19, RA10]. **Demographic** [MHN11, NDP16, SH10]. **Demographics** [FSW10, VB14]. **Demography** [DH11, GBZ14, HCS+16]. **Demonstration** [BDM+10]. **Dennys** [SZZ10]. **densa** [CBW+16]. **Densities** [CM11b, EBA+19, FRM18, KBG+18, SAH+14]. **Density** [BPS11, BHLK10, BT16, BJA+13, BB10a, CTPM13, DA12, FSJ+11, GvdHBC12, GGC17, GDWD10, HML13, JPH17, MK15, PM14, PBM+12, RMC+17, RT14, RAR+16, SR10, SJT+16, SF15, SF17, VFB+16, WB13a, ZKH12]. **Density-Dependence** [WB13a]. **Density-Dependent** [BPS11, CTPM13, SR10]. **Dependence** [BHLK10, HGB+16, WB13a]. **Dependent** [BPS11, CTPM13, DW16, DCBKR14, HD16, PPH15, PM15, RBZ+17, SR10, SHM+12]. **Depleted** [HPSA16]. **Depletion** [CKS+19, HKR18, HJS+16]. **Deployment** [KM10]. **Deposition** [FPR+18, HEC+15, PAG11]. **Depression** [DSHG10]. **Depth** [BBZGB15, CHPG12, PBC12, RSG12]. **Depth-Related** [CHPG12]. **Depths** [PCC+13]. **Derived** [HWH10, HSE+12, MCW+14, WM12, WTB10]. **Deriving** [CYW+19]. **Descaling** [ZZD10]. **Describe** [HUMG+18, OSS+17]. **Description** [RKEB13a]. **Desert** [BMOF16, CM10, DFB15, DYWY17, HB18, MCD17, SBDW11, SBC17, WB15a]. **Desiccation** [KU12]. **Design**

[BEWM10, EBMV10, FMJ11, JDS15, Nel14b, PMN19, SC13, TF13]. **Design-Based** [PMN19]. **Designed** [KM10, MAN+12]. **Designs** [BP10, CBSB15, FVK+18, KCZH14, SFF+10]. **Detailed** [HPG10]. **Detect** [BSGB17, LSD+14, SFF14]. **Detectability** [BSC+16, RG15, WF11]. **Detecting** [WMV+16]. **Detection** [AGJ11, BSSM12, BR14, CCL+19, FVK+18, GLM+15, HKR18, HBS13, JSW12, KO16, MH11, MLB18, PF11a, PVJH15, PDM+14, SL16]. **Deter** [DAA+16, MCP+15]. **Determinants** [MBG+11, TKC+18]. **Determinate** [GDG+15, HMO14]. **Determination** [GDWD10, HS17, KWCI10, MSD18, PB17, SB12b, TL14]. **Determine** [CW11, SYH+15]. **Determined** [BWDM11, GZB12, Wei10, WMW+12]. **Determines** [BJC12, DGMC17]. **Determining** [CHO+15, PBW16, ZSVK13]. **Detroit** [FPR+18]. **Develop** [MRPW19]. **Developing** [ABS+11, Poe14]. **Development** [BS18, BMTP13, CVL+19, CEM+19, DKL+17, DA16, DG19, HHJH17, HBHS15, IB14, LS16, LS18, MWC+13, MR11, NMH12, PKP+17, PM19, RAB+18, SLG+14, TKC+18, WHP14, ZLHS10]. **Developmental** [ODG+11]. **Devices** [BES15]. **Diagnostic** [GMP+11]. **DIDSON** [BFM10]. **Didymosphenia** [JC16]. **Diel** [AHS+11b, BBZGB15, BJR14, GZB12, LKP+13, MCSF14, RW11, RKF+13, SBW14, SJFF15, TASC17, WZCT12]. **Diet** [AMBM12, BDS10, BN16, BR14, BSC+16, CBM15, DWE+18, DCJ+13, DBS+10, FRBA13, FBB+13, GCA+18, GJC+18, HSSS16, Han11, HW14, HML13, JC16, JK17, JPHK10, LSPB11, MKK15, RL19, SBC+16, SRMB+14, SRP+18, WCD+11]. **Diets** [AMM+16, EBA+19, MFH13, MLBS+13, NTHR18, RSBF14, WBD17]. **Differ** [BSM13, SB12a]. **Differences** [BMR+12, MT19, MWSS13, PM19, PVJH15, QSJ12, RGP17, SS18b, SWC13]. **Different** [BHS+17, CPS+15, HVD+16, JMM+11, KMKS13, MC14, PB15, SFF+10]. **Differential** [BQF+19, BNW+12, BEMF11, HRR+11, LRH12, MGP11, SGP16]. **Differentiation** [BYM19, CPP+14]. **Differing** [OWN11, PTPS10]. **Digestion** [LJHL10]. **Digital** [MVK12, WTB10]. **Diked** [KWW14]. **diluviana** [AHS+11b]. **Dimensional** [GKBG12]. **Diminished** [BCF+11]. **Dinoflagellate** [RGP17]. **Dinosaurs** [DKS18]. **Dioxide** [DAA+16, SPH19]. **Diporeia** [PB16]. **Direct** [KST+12, MAK12, SS13]. **Direct-Gradient** [MAK12]. **Disaggregating** [NR16]. **Discard** [BC12]. **Discharge** [HHES13, PA10]. **Discordance** [CHO+15]. **Discovery** [MSW+10]. **Disease** [EPS+15, PPMJ14]. **Disease-Positive** [PPMJ14]. **Disjoined** [DM11a]. **Dispersal** [BLB+13, FWT+14, GRS12, HBS12, HCNL10, HPHB10, RHKD12, SNI+13, WAKH12, YYA+16]. **Displacement** [PPP+13]. **Dissolved** [AS12, GWB+15, KM10]. **Distance** [SSR+17]. **Distant** [HEW12]. **Distinct** [BRG19, FH17, KBG+18, MBL+18, BYM19]. **Distinctiveness** [SPM+17]. **Distinguishing** [Ano11a, TC11]. **Distributed** [RPC14].

Distribution [AGKW12, BPS11, BGW+17, BA13, BD15, BW10, CKM+11, CZK+17, CKS+19, CTK+17, CAB11, EMS+14, FZZ+10, FSP+17, FRM18, FSRK11, FRRCGA+15, GGP+15, GCM12, HSM+10, HW14, HCS+16, LKS+12, LKP+13, MLS+13, NCW+17, OSS+17, PBW16, PSGB13, PSB16, PDH+18, PGVG15, QHS+13, RSL11, RG15, SMO+14, SMH+11, SWC13, TPBB14, TTM+15, VJGV11, VCP+14, WDHW14, WLLCF16, WBMG10]. **Distributions** [BRG19, CGM15, DWGF11, HLR+12, SGP16, SS18b, SWS10, TW14, Wei10, WTB10, ZC13]. **Disturbances** [TW14]. **Ditches** [JPRS10]. **Diurnal** [MCT17]. **Divergence** [CHS+11, DBHV14, MHN11, PGJ11]. **Diverse** [MKK15, Str12]. **Diversifying** [AHS11a]. **Diversion** [MCP+15]. **Diversions** [HUMG+18, MCH+13, PPW+14]. **Diversity** [BKC+19, CN11, CHMG+18, EPR+18, HRB+16, HBTT11, HWD+16, LMD+17, LYX+10, MSP12, MBZ+14, OWP+17, RMM11, SDK+10, STS+14, SCC17, SSR+17, TKC+18, TPBB14, WDR16, WSI14]. **DNA** [BSGB17, CKM+11, FVK+18, GMB+19, HOWS10, LYX+10, PCFH17, RBF+11, SBC+16, Whi12, WMW+12, WMG+14]. **Do** [BB10a, LRW13, NPW12]. **Documentation** [MPM+14]. **Does** [DYWY17, HSM12, LUC+15, SB12a, SBDW11, TL15, VSBB+14, VSBC13, WHSK19]. **Dogfish** [DCBKR14, DG19]. **Dolly** [BCS19, WTB10]. **Dolphinfish** [BAYS16, CYW+19, RBE+10, TRHHOGSJ14]. **Domain** [NAW12]. **Domain-Sensitive** [NAW12]. **Domesticated** [NMH12]. **Dominance** [IMO+14, TB16, vZNW12]. **Dose** [VSBB+14]. **Double** [BDS10, DCJ+13, HRG12, SCL+13]. **Double-Crested** [BDS10, DCJ+13, SCL+13]. **Downs** [GS13]. **Downstream** [CTPM13, EWSR16, MJH17, TKC+12]. **Downstream-Migrating** [MJH17]. **DPS** [BYM19]. **Drainage** [BAHP11, ERL15, HUMG+18, WL13, WKC18]. **Drainages** [RG15, RG16]. **Dramatic** [HSSS16]. **Drawdowns** [GBW16]. **Dredging** [FPD12]. **Dreissenid** [HML13, KS11, MBG10]. **Drift** [GGC17, HGS+16, UPT+13]. **Drift-Feeding** [HGS+16]. **Drift-Flow** [HGS+16]. **Driven** [OSDT18]. **Drivers** [EPR+18, KO16, MSB+18]. **Driving** [NR16]. **Drones** [HNRB19]. **Drought** [PSGB13]. **Drowned** [BR11, JRBC13]. **Drum** [RR13]. **Dry** [CNM+18, JPH17]. **Drying** [FBF10]. **Dual** [GBB+14, MJHP18, MBBM10]. **Dual-Frequency** [GBB+14, MJHP18, MBBM10]. **due** [JHK+19]. **Duration** [MGW13]. **During** [BNTT17, CNM+18, LUC+15, Arc16, AJF13b, BP13, CKFQ11, CHW+13, CSD+14, GCG+18, GA10, HPG10, HBA+15, JCK+12, KYK17, MR11, PM14, PKL+11, PHG+16, PBC12, PTG+10, PGS13, PGR13, SWB+16, SGB13, SGK16, TB14, TKC+12, ZKH12]. **Duskystripe** [SB12b]. **Dwelling** [BS13, STZ13, WNCF10]. **Dynamic** [AHS+11b, BWHF17, BCH+11]. **Dynamics** [BGB+16, BBS12, CBMR14, FM17, FMG+11, GKBG12, GP12, HSS17, IHTF11, JRBC13, KGC+12, KR18, KSB16, KRM13, LBBW17, NR16, PF11b, PM10, RKEB13a, RKEB13b, SFB16, SH10, SM13a, WvPC12, WRQH17, ZBHW16].

e-book [Fle16, Pet15]. **Early** [BB15, BNS+16, CSED10, CDB10, CSD+14, DWE+19, DMHM+18, FWT+14, FPM15, GCG+18, GDST16, HPF+16, HSS17, JWHJ13, KKM11, LME16, LDLH15, LHS+13, LJHL10, MNS+19, MSWS10, MWKS13, MBT10, NMH12, PFG19, PKL+11, PTG+10, PGS13, PGR13, RRA+15, SBC+16, SSH+11a, SWB+16, SHP+19, TD13, TKC+12, WDW11]. **Early-Life** [BB15]. **East** [BSCA17, DG14, GSVS+10, YYA+16]. **East-Central** [DG14]. **Eastern** [BBL+12, CTG14, CGDL18, DSBS14, DW15, SSH+11a, SS15a, SS18b, SBDW11, SMMK12]. **Echograms** [MBBM10]. **Ecological** [GS16, OTR+14]. **Ecology** [ACDL19, BGW+17, BAYS16, BL11, DKS18, FK18, Fre19, GRDO13, Gol18, HRHS16, HB18, IRJ11, Mil19, PNM+10, PSH+19, PFG19, QSJ12, Qui16, Qui19, RCM+19, RMM11, RBE+10, SK11, Sec19, SM13b, SGK16, TA12, UWL12b, Ber13, Gid14, HCD+14]. **Ecomorphological** [MBZ+14]. **Economical** [DJ17]. **Ecoregion** [PKP+17]. **Ecoregions** [KMKS13]. **Ecosystem** [Chr14, EBA+19, HCR14, Han18, KGC+12, KKB+10, RA10]. **Ecotype** [HW14]. **Ectoparasitic** [Mit16]. **Edge** [CZK+17, CKS+19, RO16, VJGV11, Zyd11]. **Edisto** [CTP+12]. **Edited** [Ber13, Chi13, Chr14, Fle16, LDA+13, Nel14a, Ryp13, Shi13, Var13, Zyd11]. **edition** [Ryp13, Shi13]. **eDNA** [FVK+18, GMB+19]. **edwardsii** [Mit16]. **Eel** [CPS+15, GPBA18, HEW12, SJGL16, ZZMC13]. **Eel-Stage** [GPBA18]. **Eels** [EWSR16, FSW10, FBB+13, GPBA18, RLL+19, SJGL16, SAH+14, WL13, Zyd11]. **Effect** [CJM+15, CT16, EPW15, GDM+11, GCA+18, HJM+12, JRP12, LS10b, MGW13, OWN11, PBB+15, SSS+12, SHR+12, SH12, UWL12b, WEW12, vZNW12]. **Effective** [BSS18, CYP11, HMSG+11, JCS14, LV14, MSP12, ZC13]. **Effectiveness** [BGV11, BR14, JADJ+14, LDP19]. **Effects** [ARL+12, AW19, ACK17, AGKW12, BPS11, BB15, BJA+13, BSC+10, BBZGB15, BCRP13, BBL+12, BWD+17, BKC+19, BHK+10, CSDW10, Cla16, CDB10, CCB16, DW13, DWN+15, EGAW12, EBMV10, EPC+19, FWB+15, FPM13, FKH15, FH12, FMS10, FMG+11, GWOD18, GBW16, GJC+18, GA17, Gre12, GIW+13, GA10, HBS13, HB17, HTR13, HMW19, HWN15, HWHF14, HMP18, IBH12, JBC+12, KH13, KHF+18, KKM11, LDLH15, LJHL10, LBBW17, LSJN13, LSV+13, MDP12, MHE12, MFH13, MK10, MS12, NDW10, NAG13, OPHD18, OPS+14, PB15, PPF+13, PGWS15, Poe14, PB16, QSVD11, RHW15, Rey16, RBF+11, SDW+17a, SO12, SDOK11, SLG+14, SPCJ11, Sto10, SCB15, TASC17, TPA14, THNG14, TM19, UACS+19, VSBB+14, VSBC13, WHF+12, WMS15, WZCT12, WR14, WK13, WDWC10, WF19, WCN+19, WOM14, YCB+11, YHWH10, vVO10]. **Effects** [KR18]. **Efficacy** [BSGB17, BDBE11, FDSB18]. **Efficiency** [CGL+11, MJH17, SIKR17, SFF+10]. **Efficient** [WNCF10]. **Effort** [HAG13, HCD10, PDM+14, SA14]. **Efforts** [CCKF11, CBSB15, DF12]. **Egeria** [CBW+16]. **Egg** [AGKH17, Bea10, BS18, BGV11, FPR+18, FSC+13, JRP12, MLBS+13, PAG11, QSVD11, SS13, SVKK18, TM19, WBD14].

Egg-to-Fry [JRP12, SVKK18]. **Eggs** [BCR13, CHLN15, FH12, GGC17, RB13, RAR+16]. **Eight** [SFLH14]. **Elasmobranch** [OPS+14]. **Elastomer** [HB17]. **Electric** [ARB+18]. **Electrical** [MJH17, Rey16, TBGM12]. **Electricity** [NAG13]. **Electrode** [HH11]. **Electrodes** [Rey16]. **Electrofishing** [HAG13, HKR18, HJS+16, LDP19, MKHC17, MK10, PVJH15, Rey16]. **Electroimmobilization** [NYCC19]. **Electromagnetic** [BCF+13]. **Electronarcosis** [BLG+13]. **Electronic** [LEM+11]. **Electrosedation** [ARB+18, PET+17, RFM+15]. **Electroshocking** [MAN+12]. **Elevation** [HNV+18, WDHW14, WTB10]. **Eliminates** [JJNB17]. **Elk** [PSB16]. **Elucidates** [PCFH17]. **Elusive** [JLV+10]. **Elwha** [HGB+16, LPM+17, MPM+14, QHS+13, WBM+17]. **Embryo** [MYS+11]. **Embryonic** [DG19, HDQ+17, WHP14]. **Embryos** [BQF+19, NAG13]. **Emerge** [BRG19]. **Emergence** [BS18, JSW+15]. **Emerging** [AMM+16]. **Emigrant** [BMF+15]. **Emigration** [AHS10, GGS10, HLK11, PM14, PHG+16, RRA+15, TRLG13, WF19]. **Empirical** [BGV+12, JPH17]. **Encounter** [HN13]. **Encounters** [YSC10]. **Endangered** [ACDL19, AUDL18, BB15, BH11, CCL+19, DPB13, DYWY17, DSAM12, EBF+14, GLM+15, HKO+18, JZS+19, Lan16, LFB+15, LSD+14, PAG11, PPD16, SBC17, TTM+15, WOM14]. **Endemic** [BYM19, MKA10]. **Endocrinology** [LSSYL10]. **Endogenous** [GGS10]. **Energetics** [OGM+15]. **Energy** [CKS+19, GvdHBC12, GDWD10, HR15, HGS+16, HML13, JPG+18, JPH17, MDP12, MBL12, PM14, PBM+12, SF15, SF17]. **England** [RJ11, DKL+17, FHCSN12, PMF+10]. **Enhance** [BMF+15]. **Enhanced** [Bea10, PK11]. **Enhancement** [CEM+19, DF12, HGG+16]. **Enhances** [ERL15]. **Enrichment** [KPZ+12]. **Entering** [ZZD10]. **Entrainment** [KMM+11, KR18, MBPA13, MCH+13, MCP+15, PBB+15, SO12, WHF+12]. **Entrance** [SFF+10]. **Entry** [MJHP18]. **Environment** [BWD+17, CSD+14, DSRA12, FS16, GDST16, MSWS10, MOS13, WDW11]. **Environmental** [BSGB17, CM11a, CJG13, DSM18, GGS10, HMTC12, HBB13, JPSM12, KLR+15, KCJ+15, KO16, MPHG10, MSK15, Mit16, OSDT18, PTWK11, SM13a, Str12, UWL12b, VHPP19, WB13a, WL13, FVK+18, GMB+19]. **Environments** [BHS+17, BCH+11, HT13, MAH+12, NRZ+13, WSQ+15]. **Episodic** [BAR15]. **Erie** [BBG+18, CM11a, Esh14, HDBS14, PDM+14, SWC13, VB14, YJW11, ZRM+16]. **Errata** [Ano10c, Ano10d]. **Erratum** [Ano10e, Ano11a, Ano12a, Ano14a, Ano15, Ano17a, Ano19a, Ely12, Ano13a]. **Error** [AJF13a]. **Escapements** [MK16]. **Esocids** [EWW13]. **Establish** [SBC17]. **Establishment** [PW10a, SRP+18]. **Estimate** [CGA13, DYWY17, HPF+16, KHW+14, PPH15, PHFN17, SL16, TS13, VSC15]. **Estimated** [dHST13]. **Estimates** [AJF13a, BSR12, BSSP18, BFM10, CN11, CC16, CBSB15, FBH+13, HLB+16, HJS+16, HBS12, HSE+12, JCS14, KDS18, MAS10, MCO+10, RSB14, STZ13, SJMG14, UWL12a]. **Estimating** [CTN11, CKC+12, HOGO10, HCD10, HGP+17, IWB+13, MH11, MBL+18,

PCT+12, PM15, WBR11, ZM10, ZC13, vPWT12]. **Estimation** [AFHF12, ASP+18, BC12, CCKF11, CEM+19, DLHF16, DL13, DMHO12, HBTT11, HSA+16, MBP+11, MK16, PVJH15, SKBS18, SC13]. **Estimations** [ZZMC13]. **Estimators** [HSF12, Hoe17, STZ13, THGA15]. **Estuaries** [DK18, DSBS14, FWSW+15, Fre19, LEM+11, NW14, NDW10, WBMG10]. **Estuarine** [Ada18, CT16, DWE+19, DHB15, FWD10, FDWG13, FBH+13, LDP19, MJS+19, NRZ+13, NR16, PHG+16, PE14, PA10, SF15, SMMK12, WF11]. **Estuary** [BR14, CBW+16, DCS+17, DHB15, FZZ+10, HPF+16, HSSS16, HJM+12, MSH17, MBH16, NCW+17, OSS+17, PMF+10, RT14, SCL+13, VBJS10, WBD17, BSSM12, BSC+16, KR18, NLF13, NR16, QHS+13, RKEB13a, RKEB13b, SBC+16, SMH+11]. **Ethanol** [FH12, OPS+14, VSBC13]. **Ethanol-Stored** [OPS+14]. **Etheostoma** [DPB13]. **Etowah** [AFHF12]. **Eugenol** [BTWB17, CJL+14]. **Eugenol-Based** [CJL+14]. **Eulachon** [FSN+13]. **European** [HMSG+11, SHR+12, VJGV11]. **Evaluate** [DF12, KST+12, WCQD18]. **Evaluated** [HPHB10]. **Evaluating** [ACRA10, ARC+11, GSD+12, GBF12, KRRW18, KP14, MCW+14, NAG13, PGWS15, PSB16, WCN+19]. **Evaluation** [BSS18, BHC+13, BSSP18, CCKF11, CC16, CGA13, CTP+12, EHR+12, FBJR11, FHCSN12, GDWD10, GSA+19, HAG13, HB17, HJS+16, JPH17, MP10, MWC+13, RHEF19, SC13, UNTA10, WDDS13, WBH10, ZBHW16, ZLHS10]. **Evaluations** [AIC13]. **Events** [BS16, PGVG15]. **Evidence** [BGV+12, BNTT17, CTS+15, CT12, CTPM13, DKD+15, DZW+12, Gre12, HKW+14, HDQ+17, LSSYL10, PF11b, SS13, SSR+17, Str10, TLKT17, ZTC12]. **Evidenced** [WvPC12]. **Evolution** [Bea10]. **Evolutionarily** [PRW+10]. **Evolutionary** [AKM12, ADS+11, Pag19]. **Examination** [HPG10, SBC+16]. **Examine** [GA17]. **Examined** [FSJ+11]. **Examining** [BR14, BCM+19, LBC10, NHM10]. **Example** [AGH18, ACWIK13, Goo15, GA10]. **Exclusion** [CWP+19]. **Exercise** [CJM+15]. **Exhaustive** [CJM+15]. **Exhibit** [BB10a, BNW+12]. **Exotic** [TD13]. **Expansion** [LN18, SGK16]. **Expectations** [GKG+19]. **Experience** [CGB19, WEW12]. **Experiencing** [HBTT11]. **Experiment** [JCK+12, SLG+14]. **Experimental** [BNW+12, CTP+12, DMRK14, FSC+13, GS16, HJS+16, HDQ+17, JDS15, SS18a, SAF+19, WHC+10]. **Explains** [BRA14, PJ11, SFF+10]. **Exploit** [FH17]. **Exploitation** [KQ11, PGWS15, SS18a, Fle16]. **Exploring** [BMR+12, GA10, NLF13, NDW10, SZGS12, SM13a, WB15b]. **Exposed** [BDBE11, BCG+12, DMRK14, GDM+10, PET+17, RGP17, YSC10]. **Exposure** [AW19, CRC+16, CHB+12, CCB16, MGW13, SMO+14, TNS+14]. **Exposure-Sensitivity** [TNS+14]. **Expression** [BHP+15, GPBA18]. **Expulsion** [IBH12]. **Extending** [LDP19]. **Extensive** [HUSST19, JHK+19]. **Extent** [ACRAM11, RHW15, UPT+13]. **Extents** [FSJ+11]. **External** [DEP+18, HER+11, JDS15, MHPB14]. **Externally** [JBC+12]. **Extinction** [BHG+10]. **Extinctions** [FSRK11]. **Extirpations** [FPM13]. **Extreme**

[GJC+18, STK12, SGB13]. **Extrinsic** [MNB18].

F/SPO [Yas16]. **Facilitate** [BDTD17, DPS14, KBG+18]. **Facilitates** [HBS12]. **Factor** [ABM17, CT12, JRP12]. **Factors** [ACRAM11, GGS10, KLR+15, KVA+19, MPHG10, MNB18, MD11, MK16, OTR+14, OSDT18, PPF+16, PTPS10, RSVAB19, RBH+12, SAS17, SWP+18, SMMK12, TTM+15, UACS+19, WBD17]. **Failure** [BHC+18, Smi13]. **Fall** [Ano11a, BGV+12, BWD+17, FJP18, FMS10, FMG+11, GDM+10, GDM+11, GGC17, HSM+10, HGBE16, MPM+14, MWKS13, PJ11, SCL+13, SE11, SFH15, SMN+10, SDW17b, TC11, TKC+12, TKC+18, WBD14, WRP+12]. **Fall-Run** [BWD+17, FMG+11, WRP+12]. **Falling** [PJ11]. **Family** [TB16]. **Farms** [JKP10]. **Fast** [JLA17, LSPB11]. **Fast-Growing** [LSPB11]. **Fasting** [SSS+12]. **Fat** [DG14]. **Fate** [LUC+15]. **Fathead** [AS12, SRMB+14]. **Fatty** [HWH10]. **Favor** [MWG18]. **Fear** [SH12]. **Feasibility** [SNP+10, SHCB16]. **Feature** [CYW+19]. **Features** [BCH+11, MWG18]. **Fecundity** [BEMF11, DG19, GDG+15, HMO14, QSVD11]. **Fed** [PB15, WRP+12]. **Federally** [CCL+19]. **Feeding** [Bel12, BAYS16, DA12, DG14, GRDO13, Han18, HGS+16, LME16, LSPB11, MCT17, NCW+17, PFG19, RBE+10, SSS+12, SGK16, TT17, TRHHOGSJ14, TA12, UWL12b]. **Female** [BRK+18, CTG14, CPS+15, DK18, JPG+18, OWS16, PSM12, SSS+12]. **Females** [CHLN15]. **Fertilizer** [WHC+10]. **Fidelity** [DPB13, GDST16, TLKT17, WLW16, YYA+16]. **Field** [Ano11a, CJL+14, HUMG+18, LDP19, MT19, SS13, TC11, VSC15, WTB10, vPWT12]. **Field-based** [vPWT12]. **Field-Surveyed** [WTB10]. **Fields** [BCF+13, Rey16]. **Fin** [BSR12, BSSP18, OPS+14, SWH+17, VSBC13]. **Findings** [RMW16]. **Fine** [BR11, HBA+15, PS14, TPBB14, WAKH12]. **Fine-Scale** [BR11, HBA+15, PS14, TPBB14, WAKH12]. **Finger** [BAKT12]. **Finley** [Smi13]. **Fire** [SMY11]. **First** [BNTT17, CKFQ11, KM14, SO15, SKP+10, VFB+16, WB13a]. **First-Generation** [SKP+10]. **First-Winter** [KM14]. **First-Year** [VFB+16, WB13a]. **Fish** [ABM17, ARB+18, AUDL18, AW19, ACB+14, BEWM10, BGLP19, BT16, BDTD17, BMOF16, BAKT12, BWHF17, BCF+13, BSCA17, BR11, BBL+12, BP10, BKC+19, BTWB17, BES15, BDM+10, BHK+10, CCL+19, CS16, CGM15, CJL+14, Chi13, Cla16, CYP11, CGA13, CBM+13, CWP+19, DGMC17, DSBS14, DW13, DM11a, DYWY17, DHB15, ESD+17, EB16, EPR+18, EHC+14, ERL15, FWD10, FBWZ19, FK18, FQW+10, FPD12, FPR+18, FBWT19, FA10, FH12, GKBG12, GBW16, GDWD10, GA17, GNV+14, GWG+19, GSD+12, HLB+16, HSSS16, HAG13, HR15, HS17, HN13, HARL18, HMW19, HKP11, HSA+16, HCZG15, HD16, HCD10, HLK11, HER+11, HERC12, HEC+15, IRJ11, IB14, JZBP16, JPH17, JKP10, KGC+12, KMKS13, KCS+19, KMM+11, KCZH14, KP14, KHF+18, KVA+19, KWW14, Lan16, LF15, LJHL10, LSD+14, MDP12, MRPW19]. **Fish** [MSK15, MP10, MLS+13, MH11, MKA10, MWT14, MKH13, MVP15,

MWG18, MBG+11, MCO+10, NPW12, NDC+14, NJ12, NYCC19, NR16, NDW10, NAG13, OSS+17, PPF+16, PW10b, PAB+11, PTWK11, PK11, PE14, PCT+12, PHFN17, PDM+14, RHEF19, RZW+12, RBZ+17, RW11, RSBF14, RJ11, RGP17, RFM+15, SARC13, SJT+16, SDBB12, SAF+19, SFB16, SF17, SJ11, STZ13, SCF16, Smi13, SR15, SHC+16, STK12, SWS10, SGB13, SAH+14, TF13, VFFP13, VIW+17, VSBC13, WDR16, WB15a, WMS15, WR14, WSQ+15, WRQH17, WCZ+18, WK13, WBWSK12, WHSK19, WB15b, WBW+13, YCB+11, YSC10, vVO10, HLH14].
Fish-Based [FA10]. **Fished** [HVD+16]. **Fisheries** [Ada18, Ano13b, Ano14b, Ano16, Ano17b, Ano19i, BGB+16, CML19, Chi13, Chr14, CEM+19, IWB+13, Jac18, LS10a, LDA+13, MPHG10, Nel14a, Nel14b, PM19, Pet15, RCC+13, Ryp13, SRMB+15, SA16, Smi13, TH15, TBC+13, WMV+16, WBR11, WCYH18, Yas16, Zyd11, Ryp13]. **Fishers** [AJF10, AJF13a, AJF13b, WCYH18]. **Fishery** [ABS+11, BCM+19, CYW+19, CGDL18, DCS+17, DDMR10, DPS14, DCBKR14, GKG+19, GA10, HNRB19, KQ11, KAH16, KSB16, KYK17, PGW+11, SMO+14, VB14, WOM14]. **Fishery-Dependent** [DCBKR14]. **Fishery-Independent** [ABS+11, GKG+19]. **Fishes** [AHS+11b, BYM19, BGB+16, BS15, BSC+16, CHR+17, CT16, DWGF11, DWG14, DKS18, FMJ11, GP12, Gre12, HBC15, Han18, HLH14, HTH+17, HUSST19, JDS15, JBV13, KS11, LBBW17, LRR+15, Mat18, MK10, MLB18, MS12, MHPB14, MLBS+13, PF11a, Poe14, PA10, RA10, SF15, SGP16, SRMB+14, SHCB16, SPH+15, SL16, Sto10, WHSK19, WF11, Ber13, Gid14, Var13, Qui16]. **Fishing** [AJF13a, AJF13b, BBL+12, BNS+14, KK16, LLWW19, PAA14, PGS13, RSVAB19, TS13, ZM10, dHST13]. **Fishing-Related** [BNS+14]. **Fishpass** [CHH+16]. **Fishway** [BMB+10, FMJ11, JCK+12, KCM14, RHEF19]. **Fishways** [FHCSN12, KCJ+15, LMPvdH18]. **FishXing** [MCW+14]. **FISK** [HLH14]. **Fitness** [DWN+15, HWD14, PK11]. **Fitness-Related** [DWN+15]. **Five** [EWSR16, PA10]. **Fixation** [FH12]. **Fixed** [BFH14, PNMH+12]. **Fixed-Frame** [PNMH+12]. **Flannelmouth** [CGB19, FWBT17, WvPC12]. **Flatfishes** [RB18]. **Flathead** [BK11, FBP11, MSB+18, WZC+14]. **Flint** [SYH+15]. **Flood** [KKM11, MDT10]. **Flooding** [YHWH10]. **Floodplain** [AM13, DSRA12, GJC+18, HSG10, Lan16, MWS10, RW11, RAB+18]. **Florida** [Shi13, BLCN+10, CGDL18, CAB11, DG14, FWSW+15, Gre12, HAG13, MHHH10, PA10, RHKD12, SA14, SA16, SAS17, SGB13, TPLA16, TAM15, THL+17, WBMG10, YITI12, YYA+16]. **Flounder** [AKM12, BFK15, BC12, Bel12, BL11, FDWG13, HPSA16, MHF12, NW14, RJ11, RJH12, WMG+14]. **Flow** [Arc16, BBZGB15, BWHF17, FBWT19, GP12, HGS+16, HSE+12, MP10, OPHD18, PBB+15, PHHM12, RAB+18, RMW16, STK12, WKC18, YHWH10]. **Flow-Related** [OPHD18]. **Flow-Specific** [RAB+18]. **Flowing** [EMS+14]. **Flows** [EGAW12, FKH15, KKM11, YSC10]. **Fluctuating** [GDM+10, GDM+11, HR15, KKM11, RB13, RBF14, ZBC+13]. **Fluctuation**

[TASC17]. **Fluid** [GKBG12]. **Flume** [MCH+13]. **Fluorescent** [HKP11, HLH14]. **Fluvial** [HGG+16, HCS+16, LB15]. **Following** [BS16, Lan16, HML13, PPJ15, RH14, RHR+15, SFB16, SFLH14, VWS13]. **fonticola** [DPB13]. **Food** [BCRP13, HTR13, JMM+11, KM14, KPZ+12, LB15, PK11, SW11, ZRM+16, vPWT12]. **Forage** [EB16, KHF+18, NR16, OGM+15, PW10b]. **Foraging** [CW11, DEW+14, HBB13, HRHS16, HDF12, JMB+13, NPW12, NCW+17, PMF+10, SK11, WDWC10, WB13b]. **Forced** [PKPS11]. **Forces** [NR16]. **Forebays** [KVA+19]. **Forecasting** [ZRM+16]. **Forest** [TPBB14]. **Forested** [FSFS17]. **Forests** [DWE+19]. **Fork** [ACDL19, HGBE16, SHCB16]. **Formalin** [FH12]. **Found** [LLWW19]. **Foundations** [Jac18]. **Fountain** [PAG11]. **Four** [BHC+13, CN11, DW13, FSJ+11, HML13, HWN15, MHF12, ODG+11, SCC17, THKG10]. **Four-Level** [THKG10]. **Fragmentation** [BBAK19, OMA13, PSGB13]. **Fragmented** [ACMM+15, SHR+12]. **Frame** [PNMH+12]. **Frameworks** [FA10]. **Francis** [PGW+11]. **Francisco** [ARL+12, BSSM12, BSC+16, KR18, NLF13, NR16, RKEB13a, RKEB13b, SBC+16, SMH+11]. **Fraser** [BNS+16, MPHG10, PGR13, REN17]. **Free** [BNC+15, EMS+14, Yas16]. **Free-Flowing** [EMS+14]. **Frequency** [BBF+18, GBB+14, MJHP18, MDT10, MBBM10, ZZMC13]. **Freshwater** [Ber13, BCF+13, BTWB17, CHW+13, DWE+19, DW13, EPR+18, Gid14, HMTC12, HBC15, HTH+17, MCC+12, NDW10, Poe14, RR13, RDR+10, SJT+16, SGB13, SHP+19, SPH19, TB14, Var13, WDW11, vVO10]. **Fright** [ELC13]. **Frog** [BSHK+11]. **Frogs** [ACK17]. **Frozen** [OPS+14]. **Fry** [BCR13, HT13, JRP12, JSW+15, LME16, SVKK18, TB16]. **Fuca** [MBT10]. **Function** [CSD+14, SJGL16, TASC17, TL14]. **Functional** [EPR+18, MSWD15, PPF+16]. **Functioning** [HCR14]. **Functions** [HD16]. **Fundy** [WMW+12]. **Future** [DDMR10, DKS18, FJJ+12, HP13, SWS10, ZTC12].

G [HCD+14]. **Gag** [ABS+11]. **Gags** [RMMGPB16, SMMK12]. **Gain** [AGH18]. **Galaxias** [AUDL18]. **Game** [SWS10]. **Gar** [BSR12, BSD13, BSSP18, FS16, GCM12, KDS18, LS16, MRB+18, RAB+18, SDSB18]. **Gard** [Yas16]. **Gars** [DSM18, DKD+15, FVK+18, FDSB18, LS18, MSD18, SSM16, SKBS18]. **Gary** [HCD+14]. **Gas** [RMC+17, RCM+19, SDOK11]. **Gastric** [BN16, DEP+18]. **Gate** [PBB+15]. **Gauging** [BGLP19]. **Gear** [CCB16, PVJH15]. **Gears** [Poe14]. **geminata** [JC16]. **Gene** [CHO+15, GPBA18, HSE+12, MSWD15, NB13, WKC18]. **Generalist** [HSSS16, PHFN17, WDWC10]. **Generalized** [YJW11]. **Generation** [BSC+16, LFB+15, SKP+10]. **Generations** [DSHG10, ODG+11, SFLH14]. **Genes** [CPP+14, GPBA18]. **Genesis** [LS18]. **Genetic** [ACB+14, ADS+11, BLCN+10, BBAK19, BWRA16, BCM+19, BSC+16, BEMF11, BJC12, CN11, CKC+12, CVL+19, CMM+17, CHS+11, CTP+12, CEM+19, DSRA12, DSAM12, FPM13, FGW+16, GRS12, GSVS+10, HDBS14,

HBTT11, HBS12, HUMG+18, KSF13, KHK+15, KHHG13, KCMS11, LFB+15, LYX+10, LCHB+18, MBEvdB+10, MSP12, MDD+16, NHM10, NZF+11, NDP16, OWP+17, PZS17, PDSP+11, PRW+10, PGJ11, RSB14, RHKD12, RT14, SPM+17, SJT+16, SDK+10, STS+14, SMO+14, SFLH14, SSR+17, SBMH12, SS15c, TNOU11, TPBB14, VHJ+15, WAW11, WBR11, WSI14, WKS+19, WCN+19, WAKH12, WKC18, WCQD18, WLW16, WBM+17]. **Genetic-Based** [RSB14]. **Genetically** [HSE+12]. **Genetics** [AGKW12, BMOF16, CBM+13, MCD17, NB13, RPC14, SH10, Spi12]. **Genome** [BMTP13, MGP11]. **Genomic** [BYM19, BMP+17, SPM+17]. **Genotoxic** [VSBB+14]. **Genotypes** [HRR+11, SSH+11a]. **Genotypic** [CHO+15]. **Genotyping** [DPS14]. **Genus** [SDK+10]. **Geochemical** [AW19]. **Geographic** [CTN11, CHS+11, VCP+14, WDHW14]. **Geography** [MSS+11]. **Geology** [NJ12]. **Geomorphic** [MP10]. **Georges** [ZC13]. **Georgia** [NBC15, BP16, BP17, FP19, FGW+16, JPFB13, KTE+14, PB13, SP10, SJFF15]. **Georgian** [WLLCF16, WLW16]. **Ghost** [NB13]. **Giant** [BMH19]. **Gila** [MCD17]. **Gill** [BHC+18, PTPS10, PNMH+12, RB18, SZZ10]. **Gill-Net** [BHC+18, PTPS10]. **GIS** [WRP+12]. **GIS-Based** [WRP+12]. **Gizzard** [FBJR11, Mic10]. **Glacially** [WBD17, WRP+12]. **Glaciated** [BBM+14]. **Glaciation** [CKM+11]. **Glacier** [MDD+16]. **Glass** [GPBA18, SJGL16]. **Glass-Eel-Stage** [SJGL16]. **Global** [ILH+18, Lev18]. **Gloves** [ARB+18]. **Glue** [JLA17]. **Go** [SCF16]. **Goals** [BGLP19, HP13]. **Golden** [VFFP13]. **Goldfish** [LCO+15]. **Gonad** [BS16]. **Good** [MYS+11, RKEB13b]. **Government** [Lev18]. **Gradient** [FWD10, FDWG13, Mic10, MAK12, RSL11]. **Gradients** [CJG13]. **Grand** [SRMB+14, WvPC12, YCB+11, CYP11]. **Grande** [Arc16, BMB+10, HKO+18, HMP18, ZTC12, ZBC+13]. **Granite** [SMN+10]. **Grass** [GGC17]. **Grasse** [TCBI11]. **Gravel** [FSFS17, TM19]. **Gravel-Bed** [FSFS17]. **Gray** [FWSW+15, KSSK+17, SS11]. **Grayling** [BS13, CHH+16, DHA+17, DMW+19, RPC14]. **Grays** [RDR+10]. **Great** [BNS+14, MBG+11, PAB+11, PBM+12, SS15c, WDHW14, BAKT12, BWHF17, BP10, CHT13, CHB+12, FBF10, FMJ11, HML13, IRJ11, JWHJ13, KSF13, KWW14, LRR+15, MM17, MBM10, MLB18, RAR+16, SC13, TH15]. **Greater** [BB10a, KKB+10, RGM+11]. **Green** [LEM+11, MBL+18, PGVG15]. **Greenland** [PDSP+11]. **Groove** [DMCO11]. **Groundfish** [DKL+17, GDPW10, MHF12, ZC13]. **Grounds** [HSA+16, MJS+19, RCC+13]. **Group** [AJF13a]. **Grouper** [CABNQ+13, GWG+19, RSVAB19]. **Groupers** [TA12]. **Groups** [SBMH12, SS15c, WCQD18]. **Growing** [LSPB11, MT19]. **Growth** [ASP+18, AS17, BMGL12, BDS10, BMH19, BSC+10, BS13, BVA11, CTN11, CM10, CT16, CGA13, CT12, CTPM13, CDB10, CPS+15, CSD+14, DEW+14, DKD+15, DWE+19, DBHV14, DMHO12, DF14, EWW13, EBA+19, Eva17, FBF10, FKF+19a, FMS10, GWOD18, GCG+18, GDM+10, GDM+11, GN13, Goo19, GSA+19, HNK+12, HSG10, HD16, HKO+18, HWHF14, HMP18, IBH12, JC16, JPHK10, JSW+15, JMM+11, KGW14, KM14, KCS+19,

KSSK+17, KHF+18, KKM11, KYK17, LBD+16, MSD+19, MT19, MSB+18, Mat18, MAH+12, MNB18, MCC+12, MHE12, MBH12, MBPP18, MLC13, MSWD15, NAWM14, NTHR18, OWN11, ODG+11, PBG+11, PK11, PJ11, PPH15, PRK+16, PA10, QSVD11, RBF14, RR13, RBF+11, RJWK10, RBH+12, SDW+17a, SB12b, SPR+16, SSM16, SLG+14, SAW+17, SJ14, TRLG13, TASC17, TRW10, TB14, TES14, TL15, UACS+19]. **Growth** [VFB+16, WNCF10, WDW11, WB13a, WCD+11, vPWT12, vZNW12]. **Growth-Enhanced** [PK11]. **Growth-Mediated** [DBHV14]. **Guadalupe** [BLCB13]. **Guatemala** [BMH19]. **Guidance** [MJH17]. **Guide** [Ano11b, Ano12b, Ano13b, Ano14b, Ano16, Ano17b, Ano19i, SRMB+15]. **Guilds** [MRPW19]. **Gulf** [BAYS16, BCMPDSZ10, BJR14, CABNQ+13, Chr14, CGDL18, DSBS14, DSB+18, GGP+15, GCA+18, GSD+12, Han18, HPG10, JPHK10, MBPP18, MLC13, MS12, PS14, PDH+18, RCM+19, RMMGPB16, RSVAB19, SFB16, SGP16, SS11, SAW+17, SMMK12, SCB15, AKM12, ASP+18, BBC+14a, BBC+14b, DF12, FWSW+15, JPLS13, LKS+12, MHF12, MHPB14, PHG+16, TA12, WZK+15]. **Gulf-Strain** [DF12]. **Gun** [GIW+13, TLM+19]. **Gut** [BSSM12].

H [Chr14, Fle16]. **Habitat** [AS12, ACRA10, ACRAM11, ACWIK13, AKK+19, AGJ11, AMBM12, BEWM10, BQHR17, BAKT12, BBM+14, BWRA16, BB10b, BGOQ13, BW10, CTK+17, CAB11, DGMC17, DG13, DHA+17, DWG14, DFB15, DW16, DMW+19, DW13, DF12, DSB+18, DA16, EWW13, ELC13, EBMV10, FBF10, FPD12, FKH15, FFYI16, FS16, GPBA18, GCM12, GKG+19, GZB12, HPF+16, HSSS16, HKKS14, HK12, HGG+16, HGSG17, HPSA16, HM17, JZS+19, JADJ+14, KBO+12, KWW14, KCMS11, LKP+13, Lov11, MM17, MAH+12, MNM+17, MSS+11, MLS+13, MFH13, MKA10, MD11, MWKS13, MK15, NAW12, NDP16, NDW10, NCW+17, PSH+19, PKL+11, PHG+16, PB17, PTG+10, PCC+13, PPMJ14, PPW+14, PGVG15, PL13, RB12, RHW15, RSL11, RA10, RMM11, RLL+19, SHM+12, SMY11, SS11, SR15, SMS+12, STK12, SL16, SCB15, TD13, TRW10, TFM+18]. **Habitat** [UNTA10, WDR16, WCZT11, WZCT12, WSQ+15, WDWC10, WQD14, WS15, WZK+15, WRP+12]. **Habitat-Specific** [DSB+18]. **Habitats** [BP13, BDM+10, CGL+11, CR10, DBS+10, DHB15, Fre19, LDP19, MWS10, MJS+19, NRZ+13, RL14, RDH11, SJT+16, SAW+17, TES14, WDW11, WBMG10]. **Habits** [DG14, NCW+17, TRHHOGSJ14]. **Haddock** [BSM13, BJR14]. **Hake** [Han11]. **Hakes** [Fle16]. **Half** [BSC+16, HWD14, PHM17]. **Half-Lives** [BSC+16]. **Half-Pounder** [HWD14, PHM17]. **Halibut** [MHF12, dHST13]. **Haliotis** [BRS+12]. **Hall** [Chr14]. **Hall-Arber** [Chr14]. **Hallock** [Qui16]. **Handling** [ARB+18, EB16]. **Haplotypes** [RHKD12]. **Hard** [TVL+12]. **hardcover** [Ber13, Cha13, Fle16, Gid14, Nel14a, Pet15, Pra14]. **Hardened** [BT16, TT17]. **Harmful** [RGP17]. **Harrison** [BNS+16]. **Harvest** [CS16, MSH+14, SDSB18]. **Harvest-Induced** [CS16]. **Harvesting**

[SAF+19]. **Hatch** [AS17, KGW14, SPR+16]. **Hatchery** [Ano11a, BBGB15, BSS18, Bea10, BHS+17, BGV11, BCF+11, BRK+18, BCM+19, CCH15, CEFQ11, CML19, CFHE11, CWP+19, DWE+18, DML+10, EWW13, FPM15, HLB14, HSS17, HBTT11, HSF12, HSA+16, HM17, JSW+15, KMS+18, KPS+19, LHS+13, LMD+17, LFB+15, Lis14, Lis15, MM17, MSWS10, MFAS+12, MM10, MHE12, PB15, PT10, QSJ12, SKP+10, SCF16, SFLH14, SLG+14, SZZ10, SNI+13, TB16, TPLA16, TC11, TLM+19, WM12, WOM14, ZBW10]. **Hatchery-** [DML+10, LHS+13, MSWS10]. **Hatchery-Enhanced** [Bea10]. **Hatchery-Origin** [HSF12, HSA+16, WM12]. **Hatchery-Produced** [QSJ12]. **Hatchery-Reared** [SZZ10, SNI+13, TB16, TPLA16, TLM+19, ZBW10]. **Hatching** [TM19]. **Hawaii** [HLB+16]. **Head** [BW10, KVA+19, SH12, SHC+16]. **Headwater** [ACRA10, ACRAM11, BSGB17, CRH10, FRM18, HEW12, KLR+15, MBEvdB+10, WKS+19]. **Headwaters** [RSL11, SHR+12]. **Healing** [CHW+13, IBH12, LBD+16, PBG+11]. **Hearing** [CJGH13]. **Heat** [DMRK14]. **Heavily** [WHF+12]. **Heavyweight** [CCB16]. **Heithaus** [Shi13]. **Held** [CM10]. **Hemorrhagic** [EFC+11]. **Herring** [BDB+15, EB16, MHHH10, OSA+17, RRG+17, SNP+10, TL14, TL15]. **Hickory** [MR11]. **Hierarchical** [GHPS+16, HJS+16, MWT14, SL16, WBR11]. **High** [HPG10, HNV+18, KAH16, KVA+19, MSW+10, SRMB+14, SHC+16]. **High-Elevation** [HNV+18]. **High-Head** [KVA+19, SHC+16]. **High-Release** [KAH16]. **High-Resolution** [HPG10, MSW+10]. **Higher** [RMC+17]. **Highly** [CBW+16, DSRA12]. **Hill** [BBAK19]. **Hills** [PPF+16, PKP+17]. **Hind** [ZHWR11]. **Histo** [JLA17]. **Histo-Glue** [JLA17]. **Histocompatibility** [CPP+14]. **Histological** [RNG+13]. **Historic** [ZTC12]. **Historical** [CKM+11, FSRK11, HB18, HSE+12, KGC+12, MNS+19, WKC18, Var13]. **Historically** [Han11, HS13]. **Histories** [CBVF15, HCS+16, JJC12]. **History** [AKM12, ADS+11, BNS+16, BCRP13, BBC14c, BHP+15, BCM+19, CKC+12, CJG13, DBHV14, DMHM+18, FBWZ19, FH17, GA17, HRB+16, HDBS14, HP13, HWD14, HWD+16, HS13, JWHJ13, KBG+18, LDLH15, LHS+13, LMD+17, LCO+15, MSBT10, MSWS10, PJ11, PHM17, PTG+10, QSVD11, SCC17, SWH+17, SMS+12, Stu18, TKC+18, TTW+11, VBJS10, WAW11, WDW11, Yas16, ZSVK13, ZKB+15, dHST13]. **Hitch** [BYM19]. **Holes** [GWG+19]. **Holiday** [AFHF12]. **Home** [BAHP11, PS14, SK11]. **Homing** [BQF+19, DML+10]. **Hood** [CKFQ11, MBT10]. **Hooking** [HBC15]. **Hoop** [SL16, Sto10]. **Hoop-Net** [Sto10]. **Hoop-net-Based** [SL16]. **Hopkins** [Qui16]. **Horizon** [MHPB14, SFB16]. **Horizontal** [SFF+10]. **Hormone** [GWOD18, GPBA18, MSWD15]. **Hormone-Coding** [GPBA18]. **Hornyhead** [HMW19]. **Horseshoe** [MBP+11]. **Host** [PM10, SPCJ11]. **Hosts** [MOS13]. **Householders** [AJF10]. **Hudson** [BAHP11, PSH+19]. **Humpback** [CCL+19, SPH+15, WMS15]. **Humphries** [Ber13]. **Huron**

[GRDO13, JKP10, BAKT12, BBS12, CBMR14, IHTF11, OTR+14, PRK+16, RA10, RSBF14, SJ14, WLLCF16, WLW16]. **Hurricane** [vVO10]. **Hybrid** [BDB+15, Nel14a, ODG+11, TBGM12]. **Hybridization** [BDTD17, BGOQ13, DWN+15, ER18, GLM+15, JHK+19, KCMS11, LCHB+18, SDK+10, SLM10]. **Hybridizing** [DSHG10]. **Hybrids** [MKHC17]. **Hydraulic** [BGV11]. **Hydro** [BCG+12]. **Hydro-Turbine** [BCG+12]. **Hydroacoustic** [BSCA17]. **Hydroacoustics** [OSS+17]. **Hydrocarbon** [MHPB14]. **Hydroelectric** [EWSR16, MBPA13]. **Hydrogeographic** [BJC12]. **Hydrographic** [FRRCGA+15]. **Hydrokinetic** [BES15]. **Hydrologic** [GJC+18]. **Hydrological** [MC14, WBD17]. **Hydrologically** [STK12]. **Hydrology** [BKC+19]. **Hydropower** [SZGS12]. **Hydroprogne** [ARL+12]. **Hydroturbine** [PBC12]. **Hypothesis** [MNM+17]. **Hypoxia** [AW19, BAR15, DMW+19, GCA+18, RBF+11, SCB15]. **Hypoxic** [RCM+19].

Ice [BDM+10]. **Ice-Covered** [BDM+10]. **Icelandic** [AHS10]. **Ichthyophoniasis** [ZKH12]. **Ichthyoplankton** [CHPG12, HPG10, SWB+16]. **Idaho** [CML19, CM11b, KMS+18, KU12, KCMS11, KPS+19, SK11, UK14, WSQ+15]. **Identification** [ACB+14, BFK15, BCP+11, CKC+12, DPS14, FVK+18, GDPW10, GGP+15, GBB+14, HWH10, JHK+19, MJHP18, MSW+10, MBBM10, PHFN17, SMO+14]. **Identifies** [MGP11]. **Identify** [BDM+10, GMP+11, TFM+18, WRP+12]. **Identifying** [BBM+14, CM11a, FJJ+12, FSRK11, TLM+19, VHPP19]. **Identity** [LS10a, TM19]. **II** [PM10, CPP+14, RKEB13b]. **III** [KR18, YSC10]. **Illinois** [KMM+11, Pra14, HCD10]. **Image** [GKBG12]. **Image-Analysis-Based** [GKBG12]. **Imagery** [DFB15]. **Images** [BFM10, MVK12]. **Imaging** [OSA+17]. **Immature** [HSM+10]. **Immediate** [TBC+13]. **Immediate-Release** [TBC+13]. **Immigration** [PHG+16]. **Immobilization** [ARB+18, NYCC19]. **Immune** [TASC17]. **Imnaha** [BCF+11]. **Impact** [AS12, BHS+17, BP10, EWSR16, MGWP10, MMY12, SSR+17]. **Impacts** [AUDL18, BGLP19, BDTD17, BS18, CORM13, FPD12, FBB+13, IRJ11, JBV13, MDT10, SBO12, TD13, THL+17, VFFP13, WAD+17, ZRM+16]. **Impaired** [WDR16]. **Impairment** [CCB16]. **Impairs** [ZZD10]. **Impassable** [HSM12]. **Impedance** [DYWY17, GvdHBC12, HH11, HHJH17, VSC15]. **Impede** [LRW13, WZC+14]. **Impediments** [HPSA16]. **Imperiled** [FK18, FWBT17, GS16, HMW19, MKA10]. **Implant** [HB17]. **Implantation** [DBB+12, JDS15, MRB+18, MGW13, SHH+19]. **Implanted** [CHR+17, DBC+10, DM11b, FMS10, KHF+18, NB12]. **Implanting** [RPVS15, SNP+10, TPA14]. **Implications** [Ada18, BLCB13, BS18, BWRA16, BCM+19, BMTP13, CHB+12, CBSB15, CPS+15, DPB13, DCM10, FMJ11, FBS+14, FBWT19, HGG+16, JAA+13, JMM+11, JBV13, LRH12, LPM+17, MCO+10, PBC12, PDM+14, RRA+15, RG15, SA16, SJMG14, SDSB18, SHC+16, SPH+15, SPCJ11, TBTS12, TJB+14, TF13, WBM+17, ZTC12]. **Importance**

[BMM10, CVB14, MNS+19, RL19, TAM15]. **Important** [HCR14, HGG+16, WS15]. **Impounded** [BW10, GBW16, HSM12]. **Impoundment** [HS13]. **Impoundments** [HHES13, KTE+14, SSR+17]. **Imprinting** [HDQ+17]. **Improve** [CGL+11]. **Improved** [FWSW+15, STZ13]. **Improvement** [BWRA16, WCZ+18]. **Inbreeding** [BBAK19]. **Incidental** [BMC+13]. **Incision** [BHC+13, BDBE11, PBG+11]. **Incisions** [JLA17]. **Inconnu** [Stu18]. **Incorporating** [HGS+16, TP11]. **Increase** [WHC+10]. **Increased** [AHS11a]. **Increases** [BRGR10, BRK+18, HEW12, MBG10, PPJ15]. **Increasing** [IMO+14, MJH17, TNS+14, VJGV11]. **Incubation** [KKM11]. **Incurred** [RCC+13]. **Independent** [ABS+11, AJF13a, GKG+19]. **Indeterminate** [GDG+15, HMO14]. **Index** [ACRA10, CYW+19, IB14, Lov11, MAK12, PKP+17]. **Indexing** [HAG13]. **Indian** [CAB11]. **Indiana** [HDH16, MFH13]. **Indicate** [BH11, FDWG13, QSJ12]. **Indications** [ZHWR11]. **Indicator** [SMO+14, SNC+10]. **Indicators** [ARB+18, BS16, KH13]. **Indices** [ABS+11, DA16, LMD+17, PAB+11, PMN19, PDM+14, SF17, vS10]. **Indigenous** [Gre12]. **Individual** [Dud19, HERC12, JK17, KR18, MGK+18, RKEB13a, RKEB13b, SDBB12, UACS+19, WR14]. **Individual-Based** [Dud19, KR18, RKEB13a, RKEB13b, SDBB12, WR14]. **Individuals** [ARC+13, PWP13]. **Indo** [CORM13]. **Indo-Pacific** [CORM13]. **Induce** [VSBB+14]. **Induced** [CS16, GWB+15, MBP+11, PM10, THL+17]. **Induction** [TBGM12]. **Inertia** [SBO12]. **Inexpensive** [KM10]. **Infection** [MFR15]. **Inference** [CHLN15]. **Inferior** [vS10]. **Inferred** [BL11, HOWS10, STS+14, VB14, WB13b]. **Inferring** [BA13]. **Infers** [PTG+10]. **Infestations** [JZBP16]. **Inflow** [SGB13]. **Influence** [ARC+13, AS17, BQF+19, CCH15, CGB19, CEFQ11, FRRCGA+15, HH11, HARL18, HUMG+18, HERC12, HDF12, JC16, KGW14, KM14, KLS17, KS11, KRM11, KRM13, Lis14, Lis15, LCO+15, MPHG10, MP10, MBPA13, MSS+11, NTHR18, OWP13, PBG+11, PW10b, PWP13, PK11, RPSB14, RJWK10, RHR+15, SMY11, SCW+13, SM13a, SHP+19, SPH19, TRLG13, TRMC15, TW14, TPBB14, TF13, VHJ+15, WDR16, WCZ+18, WQD14]. **Influenced** [HRHS16, VSC15, WBD17]. **Influences** [BBGB15, BDS10, BHD+16, CKM+11, DSM18, HMTC12, JPFB13, KCMS11, MSK15, MBH12, PTWK11, PKL+11, PTPS10, RR13, TB16]. **Influencing** [GGS10, KVA+19, MNB18, MD11, MSP12, PPF+16, SAS17, TTM+15]. **Inform** [PSH+19]. **Information** [Ano18a, Ano18b, Ano18c, Ano18d, Ano18e, Ano18f, Ano19b, Ano19c, Ano19d, Ano19e, Ano19f, Ano19g]. **Informs** [MCD17]. **Inhibit** [BNS+14]. **Initial** [CTP+12, TPLA16]. **Injected** [LBD+16]. **Injections** [SSH11b]. **Injuries** [BHC+18]. **Injury** [BCG+12, ZZD10]. **Inland** [MWSS13, Nel14a, NDP16]. **Inner** [WMW+12, PDH+18]. **Inorganic** [WHC+10]. **InSAR** [TFM+18]. **Insects** [HWH10]. **Insertion** [DEP+18]. **Inshore** [PDSP+11]. **Insight** [TRW10]. **Insights** [ACDL19, BCS19, CMM+17, HBB13, HLR+12, HPSA16].

Instability [ODG+11]. **Instantaneous** [BS13]. **Instream** [ACWIK13, JADJ+14, MK15, PPMJ14, PPJ15, RMW16, STK12]. **Instrument** [VSC15]. **Intact** [BWHF17]. **Intake** [HGS+16]. **Integrated** [BBS12, CHR+17, Cla16, DWE+18, DM11b, DMR+10, ELC13, EHR+12, EPT+16, HB17, HLK11, MCC+12, SDW+17a]. **Integrating** [HEC+15, MRPW19, WB15a]. **Integration** [HD16]. **Integrity** [PKP+17]. **Intensity** [MDT10]. **Intensive** [BJA+13]. **Interaction** [HB18]. **Interactions** [BES15, CW11, CBW+16, DW13, FRA13, Han18, HBB17, LRH12, Mit16, PCFH17, SPR+16, WDDS13, WDWC10]. **Interactive** [CCB16]. **Interannual** [IHTF11, RJWK10]. **Interconnected** [HRHS16]. **Interferometric** [TFM+18]. **Interior** [ACRA10, ACRAM11, MKH10, PBB+15]. **Intermediate** [SPCJ11]. **Intermittency** [Arc16]. **Intermittent** [HUSST19, OPHD18]. **Intermittently** [MSH17]. **Internal** [GWOD18, JDS15]. **Interoceanic** [MJGV14]. **Interpreting** [CBVF15, SS15a]. **Interregional** [PF11a]. **Intersex** [KTE+14]. **Interspecies** [CM11b]. **Interspecific** [HNV+18]. **Interstitial** [MYS+11]. **Intersystem** [PW10a]. **Intertidal** [DHB15]. **Intervals** [SMN+10]. **Intra** [PW10a]. **Intra-** [PW10a]. **Intrabasin** [CR10]. **Intracoelomic** [CHW+13, MRB+18]. **Intraperitoneal** [NB12]. **Intraspecific** [HNV+18, MWSS13]. **Intrinsic** [MT19]. **Introduced** [BK11, LRH12, LYX+10, MSB+18, MMY12, SBO12, THKG10, VHJ+15, WCD+11]. **Introduction** [DKS18, JJNB17, SDOK19, SM13b, TNOU11]. **Introductions** [NB13]. **Introgressive** [BLCB13, GLM+15, JHK+19, SLM10]. **Inundation** [RAB+18]. **Invaded** [SDOK19]. **Invasion** [ABM17, KRRW18, LDLH15, LCO+15, MBG10, RO16]. **Invasions** [HML13]. **Invasive** [BSSM12, CORM13, CHLN15, DAA+16, ER18, FRBA13, FRA13, GS16, GMB+19, KU12, LV14, NAG13, SS13, TD13, UK14, ZBHW16]. **Invasiveness** [HLH14, JMM+11]. **Invertebrate** [PHFN17]. **Invertebrates** [AMM+16]. **Investigate** [BBG+18]. **Investigation** [BBL+12]. **Investment** [OWN11]. **Irrigated** [WHF+12]. **Irrigation** [SO12]. **Island** [LSSYL10, MHF12]. **Islands** [GRS12, Spi12]. **Isle** [GSJS17, MBZ+14]. **Isolated** [CRH10, OWP+17, WKS+19]. **Isolation** [KRRW18, SDK+10, SHR+12, SE11, SSR+17]. **Isotope** [BL11, CHLN15, OPS+14, WB13b]. **Isotopes** [PBW16, QSJ12, RMM11, VSBC13]. **Isotopic** [GDPW10, HUMG+18]. **Issue** [Ano18a, Ano18b, Ano18c, Ano18d, Ano18e, Ano18f, Ano19b, Ano19c, Ano19d, Ano19e, Ano19f, Ano19g]. **Issues** [TBC+13]. **Iteroparity** [CBAC19]. **IVb** [EFC+11].

J [Chr14, Var13]. **Jack** [JJC12]. **James** [Nel14a, BMGL12, BGV+12]. **Jams** [FSFS17]. **Japanese** [STS+14]. **Jeffrey** [Shi13]. **Jennings** [LDA+13]. **Jeremy** [Chi13]. **Jim** [YITI12]. **Joaquin** [FSP+17, LHHL17, PBB+15]. **John** [DCS+17, Shi13, TL17, UWL12a, UWL12b, UPT+13, Zyd11]. **Johns** [MHHH10, Qui16, TAM15]. **Jolly** [CBSB15]. **Juan**

[BBF+18, BRS+12, CGM15, DF14, GP12, MBT10, PFG19]. **Jumping** [FMJ11]. **June** [KWCI10]. **Juvenile** [ABS+11, ARL+12, ASJ15, AAD14, AIC13, AS17, BMF+15, BP16, BFK15, BLG+13, BAHP11, BBC+14a, BBC+14b, BQHR17, BCRP13, BRS+12, BDBE11, BGW+17, BES15, BCG+12, CJM+15, CBVF15, CT16, CRC+16, CC16, CHW+13, CVB14, CBM15, DEW+14, DWE+18, DBC+10, DBB+12, DH11, DBS+10, DJ17, DHB15, DF14, EBG18, EPW15, EGAW12, ETC18, EHR+12, EHC+14, EPT+16, FCG+17, FBS+14, FRM18, FP19, FBH+13, GGS10, GvdHBC12, GDM+10, GDM+11, GJC+18, GNMM12, HPF+16, HSSS16, HGBE16, HOGO10, HJM+12, HTR13, HBB17, HWH10, HSG10, HER+11, HERC12, HPHB10, JBC+12, JPSM12, JAA+13, JADJ+14, JM14, LMD+17, LRM+10, LJHL10, LBD+16, MGWP10, MC14, MSH17, MSS+11, MLS+13, MBH16, MCC+12, MJH17, MFR15, MBL12, MGW13, MAN+12, MCT17, MCH+13, MCP+15, MK15, NPW12, NRZ+13, NBC15, NLF13, OPHD18, PBG+11, PNM+10]. **Juvenile** [PPF+13, PBB+15, PPH15, PKL+11, PBC12, PPP+13, PM15, PM10, QHS+13, RSB14, RRA+15, RGM+11, RDR+10, RBH+12, SZGS12, SPC+18, SJT+16, SMJ14, SF15, SGP16, SP10, SSH+11a, SSH11b, SBW14, SO12, SHH+19, SCF16, SDOK11, SHC+16, SS15b, SHP+19, SMMK12, SCB15, TA13, TD13, TPA14, TPLA16, TCBI11, TTW+11, TL15, VBJS10, WMS15, WM12, WB13b, WAKH12, WTB10, ZKB+15, vZNW12]. **Juveniles** [LSPB11, SF17, TKC+12, WCZT11].

kamtschatkana [BRS+12, BRS+12]. **Kansas** [FPD12]. **Karluk** [Yas16]. **Katrina** [vVO10]. **Keith** [Ber13]. **Keller** [Chi13]. **Kelt** [PM14]. **Kennebec** [WS15, WZK+15]. **Ketotestosterone** [MGK+18]. **Key** [CGA13, GPBA18, MWG18]. **Killifish** [Gre12]. **King** [SFF+10]. **Kirikuchi** [SDK+10]. **Kit** [HLH14]. **Klamath** [BHD+16, PGJ11, CRC+16, FMG+11, HWD14, HWD+16, KHHG13, SMO+14, Str10, Str12]. **Klickitat** [NZF+11]. **Klimley** [Pra14]. **Kodiak** [MHF12]. **Kokanee** [HGB+16, OWP+17, SBO12, WQD14, WCQD18]. **Kootenai** [WSQ+15, BQHR17, HP13]. **Kootenay** [SNI+13]. **Kopf** [Chi13]. **Kuskokwim** [Stu18].

L [Chr14, Ryp13]. **L.** [ACK17]. **Laboratory** [CM10, LDP19, MDP12, MT19, MAN+12, PPH15, SS13, WBH10]. **Laboratory-Based** [PPH15]. **Lack** [BDS10, WBD14]. **Lagoon** [CAB11]. **Lagoons** [TFM+18]. **Lahontan** [BRGR10, HB18, PRW+10]. **Lake** [AHS+11b, BDS10, BP13, BAHP11, BAKT12, BRGR10, CSED10, CHT13, CM11a, CSD+14, DG13, DMW+19, DCJ+13, DM11a, DMR+10, FPR+18, FSC+13, GRDO13, GSR+11, GSJS17, GS13, GZB12, HNK+12, HML13, HB18, HDH16, IHTF11, JRBC13, JKP10, JBV13, KGC+12, KBG+18, KWS14, KPS+19, LME16, MNS+19, MSWS10, MWSS13, MBPA13, MNM+17, MNB18, MFH13, MD11, MBZ+14, NB12, PNM+10, PTPS10,

RB12, RA10, RJWK10, SBO12, SH10, SCW+13, SDOK19, SBW14, SJMG14, SCF16, SIKR17, SBC17, SGK16, TA13, TCBI11, THKG10, VCP+14, VFB+16, WDW11, WLLCF16, BBGB15, BAKT12, BR11, BMM10, BBS12, BHG+10, BBG+18, BMR+12, CHT13, DSAM12, ESD+17, EBA+19, Esh14, FBB+13, GS13, HNK+12, HDBS14, HML13, HSE+12, JMB+13, JRBC13, KWCI10, KCS+19, KRM11, KRM13, MBG10, MCO+10, MLBS+13, OTR+14]. **Lake** [PGW+11, PB16, PRK+16, PDM+14, RCD+11, RMM11, RSBF14, SS18a, SPR+16, SRP+18, SWC13, SJ14, THKG10, TJB+14, VB14, WLW16, WBD14, YJW11, ZRM+16, ZZMC13, vVO10]. **Lake-Scale** [MFH13]. **Lake-Type** [PNM+10]. **Lakes** [AM13, BB10b, FJJ+12, HAG13, HRHS16, HNV+18, JK17, LSPB11, MSS+11, MFH13, MKH13, PTPS10, PCC+13, PM10, RBK+11, SS13, TBL+17, WSI14, WB13a, WBWSK12, BAKT12, CHB+12, CBMR14, HML13, IRJ11, JWHJ13, KSF13, KWW14, LRR+15, MM17, MBM10, PBM+12, RAR+16, SC13, SS15c, TH15]. **Lakes-** [BAKT12]. **Lakes-Origin** [BAKT12]. **Lakewide** [HBS12, MCO+10]. **Lampetra** [JSW12]. **Lamprey** [CHB+12, HB17, KCJ+15, MSW+14, MJHP18, MAN+12, MOS13, RG15, RG16, SS15a, YSW+14]. **Lampreys** [BMM10, CHB+12, Esh14, Eva17, HJS+16, HCZ13, HBA+15, JCK+12, JSW12, KCM14, MCC+12, MJH17, NAW12, SS18b, SJ14]. **Land** [DWGF11, GNMM12, HDH16, RBK+11, SWS10]. **Land-Locked** [RBK+11]. **Land-Use** [HDH16]. **Landings** [CYW+19]. **Landlocked** [HGB+16, WBD14]. **Landsburg** [BLB+13]. **Landscape** [ACMM+15, BCH+11, CTPM13, DFB15, FSJ+11, Spi12, WDDS13, WBWSK12]. **Landscape-Based** [WBWSK12]. **Landscape-Scale** [WDDS13]. **LaPlatte** [PPD16]. **Large** [BAHP11, BBM+14, CHMG+18, CTPM13, CM11b, DK18, DEW+14, DWE+18, EMS+14, GJC+18, HUSST19, JCK+12, JSW12, KCZH14, KCJ+15, KKM11, MCH+13, PCC+13, PE14, PRK+16, RHEF19, RPC14, RBZ+17, RA10, SPH+15, SFF14, WRQH17, WDW11]. **Large-Bodied** [SFF14]. **Large-Dam** [KCJ+15]. **Large-River** [CTPM13, HUSST19, RBZ+17, SPH+15]. **Large-Scale** [CM11b, DK18, JCK+12, PE14, PRK+16, RA10]. **Largemouth** [ARC+11, ARC+13, BNW+12, BAR15, CBW+16, CCB16, EPW15, FDWG13, GWB+15, GDWD10, GA10, HBS12, HVD+16, HDF12, KTE+14, Lov11, MFH13, NDC+14, NTHR18, NDW10, PW10a, PWP13, PET+17, SPC+18, SA16, SS15b, TPA14, TAM15, VWS13]. **Larger** [MS12]. **Larvae** [ESD+17, FRRCGA+15, GNV+14, KWCI10, LSPB11, RAR+16, UPT+13]. **Larval** [ABS+11, BH11, CHB+12, DA12, EBA+19, Eva17, GRDO13, HJS+16, HGSG17, JPLS13, JSW12, LJHL10, NYCC19, PM10, PDM+14, SS13, TL17]. **Latent** [SZGS12, SBO12]. **Lateral** [PPP+13, SMH+11]. **Laterally** [KHF+18]. **Latitudinal** [MT19]. **Lauer** [LDA+13]. **Laurel** [BBAK19]. **Lavage** [BN16]. **Lawrence** [EFC+11, Han18, ZZMC13, MLC13]. **Lead** [FS16]. **Lean** [GSR+11, SJMG14]. **Led** [Lev18]. **Lee** [Yas16]. **Legacy** [AW19, PRW+10, PSGB13]. **Legumine** [ACK17]. **Length** [ASP+18, BSM13, BFM10, CGA13, DLHF16, DL13, FBWZ19, GBB+14, HS17, KQ11, KK16,

RGM+11, SDSB18, TRMC15, THGA15, TB16, ZM10, ZC13, ZZMC13]. **Length-** [KK16]. **Length-at-Age** [ASP+18, DLHF16]. **Length-Based** [SDSB18, THGA15]. **Length-Cohort** [ZM10]. **Lengths** [HGP+17, MFH13]. **Lentic** [LRH12]. **Leopard** [ACK17]. **Lepisosteus** [SKBS18]. **Lernaeopodidae** [MFR15]. **Lesions** [MHPB14]. **Less** [AJF10, CHLN15]. **Level** [BMM10, FQW+10, GA10, NDW10, PM19, SRP+18, THKG10]. **Levels** [BLG+13, BYM19, BH11, CKS+19, GDM+11, MC14, WHC+10]. **Lewis** [ACDL19, SHCB16]. **Lice** [JZBP16]. **Life** [BB15, BNS+16, BCRP13, BBC14c, BHP+15, BCM+19, CKC+12, CBVF15, CSED10, CDB10, CJG13, CSD+14, DWE+19, DBHV14, DMHM+18, FH17, GA17, HMTC12, HRB+16, HWD14, HWD+16, HS13, HCS+16, JJC12, JWHJ13, KBG+18, LDLH15, LHS+13, LMD+17, LCO+15, MSWS10, PFG19, PJ11, PHM17, PTG+10, SCC17, SBC+16, SWB+16, SCF16, SMS+12, Stu18, TB14, TKC+18, TTW+11, VBJS10, WAW11, WDW11, ZSVK13, ZKB+15, dHST13]. **Life-History** [PJ11]. **Life-Skills** [SCF16]. **Life-Stage-Specific** [HMTC12]. **Lift** [RC16]. **Light** [HBS13]. **Like** [CHH+16, FHCSN12, LMPvdH18, RHEF19]. **Likelihood** [HSA+16]. **Limit** [ARC+11, AGKW12]. **Limitation** [PK11]. **Limiting** [GNMM12, JRP12]. **Limits** [AGH18, BGOQ13, Str10]. **Limulus** [MBP+11]. **Lineage** [BRG19]. **Lineages** [BCH+11, NHM10, SE11]. **Linear** [YJW11]. **Linking** [HBB13]. **Lion** [KST+12]. **Lionfish** [CORM13]. **Lipid** [SF17, VSC15]. **Lipids** [HWH10]. **Lithobates** [ACK17]. **Little** [Nel14b, PDM+14, BCF+11, FRM18, Sto10]. **Littoral** [SBW14]. **Live** [LSV+13]. **Live-Release** [LSV+13]. **Lived** [HKO+18, LF15]. **Lives** [BSC+16]. **Livestock** [PPJ15]. **Load** [MKH10]. **Loads** [WM12]. **Lobster** [FRRCGA+15, HCR14]. **Local** [DZW+12, FSRK11, MFH13]. **Localized** [SA14]. **Locate** [MSH17]. **Location** [BQF+19, BWD+17, HH11, PBG+11, TL17]. **Locations** [CGB19, WB15a]. **Loci** [HN11]. **Lock** [SDW15, SH12, YITI12]. **Lock-and-Dam** [SDW15, SH12]. **Locked** [RBK+11]. **Locomotory** [BNW+12]. **Logger** [KM10]. **Logistic** [TP11]. **Long** [AGH18, BGB+16, DSM18, GP12, HSSS16, IHTF11, KM10, KRM13, LF15, MLC13, NDC+14, NR16, OGM+15, PPJ15, RA10, SWB+16, SMH+11, VB14, WHSK19, ZBHW16]. **Long-Lived** [LF15]. **Long-Term** [AGH18, BGB+16, DSM18, GP12, HSSS16, IHTF11, KM10, KRM13, MLC13, NDC+14, NR16, OGM+15, PPJ15, RA10, SWB+16, SMH+11, VB14, WHSK19, ZBHW16]. **Longfin** [NR16]. **Longitudinal** [BSM13, FRM18, PPP+13]. **Longline** [RSVAB19]. **Longlines** [GSD+12]. **Longnose** [BSSP18, KDS18, MRB+18, SSM16]. **Loss** [DM11b, HVD+16, HRG12, Mit16, PBG+11, RH14]. **Lota** [KSB16]. **Louisiana** [KMKS13, MKK15, RMC+17, vVO10]. **Low** [AW19, AAD14, ACB+14, BYM19, BH11, BRS+12, BW10, FDSB18, GDST16, Han11, KM10, MSWD15, SDK+10, SH12, UK14, VSBB+14, WOM14]. **Low-Cost** [FDSB18]. **Low-Head** [BW10, SH12]. **Low-Maintenance** [KM10]. **Low-Temperature** [AAD14, UK14]. **Lower**

[HML13, HM17, REN17, RDR+10, SMN+10, BL11, BSD13, HKKS14, JSW12, JHK+19, MKH13, MWG18, RDH11, RMW16, RT14, SBDW11, SIKR17, SS15c, TKC+12, TLKT17, WSQ+15, WF11]. **Lowers** [BNC+15]. **Lumps** [GWG+19]. **Lunar** [BMM10, LKP+13].

M [Chr14, Ryp13, Zyd11]. **Mackenzie** [HLR+12]. **Macro** [MSB+18]. **Macro-Scale** [MSB+18]. **Macrohabitat** [BSD13]. **Macroinvertebrate** [DGMC17, SAH+14]. **Macroinvertebrates** [KMKS13]. **Macrophytes** [NTHR18, PAG11]. **Macrotidal** [DMHM+18]. **Madison** [BGW+17]. **Madtom** [MKA10]. **Magnitude** [FSC+13]. **Main** [BBS12, HPHB10, OTR+14, WSQ+15]. **Main-** [WSQ+15]. **Main-Stem** [HPHB10]. **Maine** [BJR14, Chr14, FZZ+10, GZB12, GBZ14, HCZ13, HCZG15, HKZ11, LKS+12, NCW+17, OSS+17, RSG12, SZZ10, WCZ+18, WS15, WZK+15]. **Maintained** [SFLH14]. **Maintenance** [KM10]. **Major** [BCH+11, CPP+14]. **Male** [BVA11, JJC12, KMS+18, LBC10, SKP+10]. **Males** [ARC+13, MGK+18, PWP13]. **Managed** [GP12]. **Management** [ARL+12, BLCB13, DPB13, DKS18, DCBKR14, HP13, LFB+15, LPM+17, MPHG10, Mil19, Nel14a, SDSB18, SM13b, ZTC12, Smi13]. **Managing** [ACMM+15]. **Manganese** [TL15]. **Manistee** [BHK+10, DHA+17, DG13]. **Many** [SR10, SS13, WB15b]. **Mapping** [PSH+19]. **Margin** [GRS12]. **Marine** [AJFO10, AJF10, BNTT17, CKFQ11, DGMC17, GCG+18, GA17, GWG+19, HMTC12, HWH10, MBT10, MOS13, PGR13, QSJ12, Qui16, SHP+19, TB14, Wei10, Yas16]. **Marine-Derived** [HWH10]. **Mark** [Eva17, HLB+16, HRG12, MK16, PGWS15]. **Marked** [DMHO12, RGM+11]. **Marker** [AIC13]. **Markers** [CVL+19, EBF+14, NZF+11, PDSP+11, STS+14, TL14]. **Marking** [BQF+19, Chi13, HB17]. **Marks** [SSH11b]. **Marlin** [Goo15]. **Marlins** [RBE+10]. **Marsh** [BT16, JPRS10, MBH16, RC16]. **Maryland** [Chi13, Chr14, LDA+13, Nel14a, Qui16, Ryp13, Zyd11, AS17]. **Mass** [PPH15]. **Mass-** [PPH15]. **Massachusetts** [HCD+14, DCBKR14, KHD+14, RRG+17]. **Match** [FH17]. **Matching** [SBC17]. **Material** [IBH12]. **Materials** [BHC+13]. **Maternal** [BBC14c, SSH11b]. **Mating** [BSS18, OSDT18]. **Matrix** [KRM13, SR10]. **Matter** [JPH17, VSBC13]. **Matthew** [Chi13]. **Maturation** [BS16, LBC10, MGK+18, OWN11]. **Maturing** [FPM15, PM14]. **Maturity** [CFHE11, Con17, CGDL18, DL13, HNK+12, OWS16, OWP13, PM14, RMC+17, TRMC15]. **Maximum** [Goo15, HSA+16, Hoe17, PBC12, Smi13]. **May** [DWE+19, MDT10, MVP15]. **McClatchie** [Pet15]. **McCloud** [SLM10]. **McKenzie** [Chi13]. **Mead** [DSAM12]. **Mean** [HGP+17, TB16]. **Means** [PM19]. **Measurements** [HH11]. **Measures** [CEM+19, PMN19, WCYH18]. **Measuring** [Eva17]. **Mechanism** [NJ12]. **Mechanisms** [BMR+12, HM17, LRM+10]. **Mediated** [DBHV14]. **Mediates** [SS15b]. **Melting** [MSW+10]. **members** [Chi13, Chr14, LDA+13, Nel14a, Ryp13, Zyd11]. **Memorandum** [Yas16].

Menhaden [ASJ15, ASJ16, ASJ17, AS17, HWHF14, SMJ14, SWB+16]. **Menippe** [CGDL18, RMC+17]. **mercenaria** [CGDL18]. **Mercury** [Ada18, FWD10, HNV+18, SARC13, TA12, WNCF10]. **Mesa** [Chi13]. **Mesohabitat** [TCBI11]. **Metabolism** [CJM+15]. **Metamorphosis** [ACK17, SJ14]. **Metapopulation** [PF11b]. **Metapopulations** [BCH+11]. **Method** [DMCO11, DJ17, GKBG12, JPRS10, LV14, MH11, NYCC19, PSM12, Poe14]. **Methods** [DEP+18, MSD18, MVK12, Poe14, PMN19, RMDA11, SC13]. **Methylmercury** [HSG10]. **Metrics** [MRPW19, WCN+19, vS10]. **Mexico** [DF14, GP12, AKM12, BB15, BAYS16, BCMPDSZ10, CABNQ+13, CGDL18, DSBS14, DSB+18, FWSW+15, GGP+15, GCA+18, GSD+12, HPG10, JPHK10, JPLS13, MBEvdB+10, MBPP18, MS12, MHPB14, PS14, PDH+18, RCM+19, RMMGPB16, RSVAB19, SFB16, SGP16, SS11, SAW+17, SMMK12, SCB15, TRHHOGSJ14, TA12]. **Michael** [Shi13]. **Michigan** [CBMR14, HSE+12, BR11, BMR+12, BHK+10, DG13, DHA+17, EBA+19, ERL15, GRDO13, JMB+13, JRBC13, KGC+12, KRM11, KRM13, MBG10, MD11, MLBS+13, NAW12, PB16, PM10, RCD+11, TJB+14, WDW11]. **Micro** [LBD+16, SHH+19]. **Micro-acoustic** [SHH+19]. **Microacoustic** [FMS10]. **Microchemical** [BFK15, FDWG13, GNV+14]. **Microchemistry** [CBM+13, HPHB10, SWH+17, VBJS10]. **Microhabitat** [FJP18]. **Microsatellite** [BCP+11, FSN+13, KHHG13, MGP11, WMW+12]. **Microsatellites** [BWDM11, GSVS+10]. **Microscale** [HT13]. **Microstructure** [VBJS10]. **Microtrolling** [DJ17]. **Mid** [MGWP10, RJ11]. **Mid-Atlantic** [RJ11]. **Mid-Columbia** [MGWP10]. **Midcoastal** [FBS+14]. **Midcontinent** [PAB+11]. **Middle** [BH11, PTG+10]. **Midwest** [GSVS+10]. **Midwestern** [KCS+19]. **Migrant** [RSB14]. **Migrating** [CKS+19, CJL+14, DEP+18, HCW14, HKZ11, MGWP10, MJH17, SHP+19]. **Migration** [BHC+18, BBC+14a, BWD+17, CZK+17, CHMG+18, CTS+15, CVB14, CNM+18, DHRQ10, FP19, GDST16, GA17, HJM+12, HT13, HSS17, HER+11, LUC+15, MPHG10, MJS+19, MSS+11, MJGV14, MR11, OS11, PM14, PPP+13, PGR13, RHR+15, RKF+13, RBH+12, RRG+17, SZGS12, SHM+12, SDBB12, SSH+11a, SHR+12, SH12, Str10, Str12, TTW+11, VCP+14, WZC+14, WAD+17, WL13, ZKH12, Qui16]. **Migrations** [AHS+11b, HBA+15, TBTS12, VHPP19]. **Migratory** [BMM10, CEFQ11, CBM+13, HLR+12, PMF+10, RH14, SWH+17, SDW15, SZZ10, TKC+18, WBR11, WMW+12]. **Minas** [WMW+12]. **Miniature** [KM10]. **Minijack** [HLB14, JJC12, SLG+14]. **Minimum** [AGH18, JLV+10, UK14, SPCJ11]. **Minnesota** [SCW+13, AMM+16, BS15, DH11, FJJ+12, MMY12, PCC+13]. **Minnow** [AS12, Arc16, BYM19, BMB+10, DSRA12, FBF10, HKO+18, OMA13, SRMB+14]. **Misgurnus** [KU12, UK14]. **Missing** [PVJH15]. **Mississippi** [BH11, HKKS14, JHK+19, KMM+11, MKH13, PTG+10, SS13, AM13, BSSM12, DF12, DLHF16, KBO+12, SWP+18]. **Missouri** [ACRA10, EBF+14, RDH11, Mic10, MS13, SM13a]. **Mistassini** [HNK+12].

Mitigation [WRQH17]. **Mitochondrial** [CKM+11, CMM+17, HOWS10, LYX+10, MSBT10, Whi12, WMW+12]. **Mittelbach** [HCD+14]. **Mixed** [AHS11a, FSN+13, IWB+13, MM10, WBR11]. **Mixed-Stock** [AHS11a, FSN+13, MM10, WBR11]. **Mixing** [BAZ12]. **Mixture** [BEMF11, HRG12, SL16]. **mm** [CHR+17]. **Moapa** [DM11b]. **Mobility** [BFH14]. **Model** [BMB+10, BRG19, BEMF11, BZ12, Dud19, HBB13, HGS+16, HBHS15, JPFB13, MDP12, MWC+13, MWT14, NAW12, PPH15, RAB+18, SR10, SARC13, SDBB12, TFM+18, UNTA10, WRP+12, YJW11, ZLHS10, vPWT12, RKEB13a]. **Modeled** [JPLS13, MRPW19, RHW15]. **Modeling** [AFHF12, DF12, GGC17, Goo19, HS17, HLK11, JBV13, KWS14, KR18, KRM13, MPHG10, MAH+12, PCT+12, PSB16, RKEB13a, RKEB13b, SJ11, SDSB18, UWL12b]. **Models** [CBSB15, FSJ+11, HHJH17, HD16, IWB+13, JPH17, KCM14, MBM10, MLS+13, PM13, PM15, PVJH15, PHFN17, RPSB14, SL16, WDDS13, WB15a, WR14, WBH10, WTB10]. **Modes** [CW11]. **Modified** [CBW+16, MAN+12, MCP+15]. **Mohave** [ESD+17]. **Molecular** [BRG19, CCL+19, CEM+19, ESD+17, LSD+14, MCD17]. **Momma** [SSH11b]. **Monitoring** [CVL+19, Cha13, LPM+17, MNS+19, NDP16, RRA+15, SFF14, SJFF15, WAD+17, ZC13]. **Monkfish** [RMDA11]. **Montana** [SMY11, BGW+17, DMW+19, EPS+15, PDP12, PPC13, PPMJ14, PPW+14, PPJ15]. **Montane** [BZ12, BAZ12, CM10]. **Moon** [SHR+12]. **Morbidity** [TLM+19]. **Morice** [WAKH12]. **Morphological** [GWOD18, JHK+19, KHK+15, LMD+17, MWG18]. **Morphologically** [GGP+15]. **Morphology** [Ano11a, LSSYL10, MBEvdB+10, ODG+11, PTPS10, RB18, TC11]. **Morphometric** [GLM+15, HDH16]. **Morphometrics** [CBVF15]. **Morphotypes** [CHT13, CPP+14, GSJS17, HNK+12, KWS14]. **Mortal** [BCG+12]. **Mortality** [BC12, BMH19, BNTT17, BNC+15, BRK+18, BMR+12, CR10, CFHE11, CGA13, ETC18, FBJR11, FSC+13, FBH+13, GCG+18, HBC15, Hoe17, HGP+17, JPHK10, KAH16, KR18, KRM11, LAR16, LBD+16, MPHG10, MBP+11, PGWS15, PM10, PA10, RJWK10, SZGS12, SPR+16, THGA15, TB14, TPLA16, TP11, TS13, TLM+19, WM12, WF19, YHWH10, ZM10, dHST13]. **Motupiko** [YHWH10]. **Mount** [RNG+13]. **Mountain** [BGW+17, BCR13, FK18, FKF+19a, FKF+19b, PDP12, WK13, AUDL18, BEWM10, EBMV10]. **Mountains** [ACWIK13, BSGB17, BGLP19]. **Mouth** [BR11, JRBC13, RSL11]. **Movement** [BAHP11, BFH14, BSD13, CR10, CTPM13, CNM+18, DPB13, DAA+16, DF14, EBG18, FWB+15, FP19, HGBE16, HUMG+18, JCK+12, JPSM12, KHD+14, KBO+12, LAR16, LEM+11, LRW13, MCW+14, MBPA13, MBH16, MWKS13, NCW+17, PKL+11, PHHM12, RKF+13, SCW+13, TKC+12, TCBI11, WR14, WCN+19, WAR12, WSK11, YHWH10, ZBW10]. **Movements** [BP13, BW10, CHH+16, CGM15, CKFQ11, DK18, DCM10, EB16, FZZ+10, FFYI16, FH17, GBZ14, PBW16, PPW+14, PS14, REN17,

SBW14, SIKR17, WZCT12]. **Moving** [GKBG12]. **MS** [BLG+13, PET+17]. **MS-222** [BLG+13, PET+17]. **mtDNA** [MBEvdB+10]. **Much** [GNV+14]. **Mudminnow** [KO16]. **Multi** [KP14]. **Multi-Scaled** [KP14]. **Multibeam** [DMR+10]. **Multimethod** [PVJH15]. **Multimetric** [IB14, PAB+11, vS10]. **Multiple** [BW10, CW11, CHT13, FPM13, FQW+10, HMW19, MBH16, MBL12, PPF+16, PF11a, Poe14, SHM+12, SR15, WHC+10]. **Multiple-Season** [PF11a]. **Multiscale** [EPS+15, MSK15, PTWK11, RB12]. **Multispecies** [CYW+19, PSB16, SL16]. **Multistage** [PMN19]. **Multistate** [HLK11, PCT+12]. **Multivariate** [MAK12]. **Multiyear** [dHST13]. **Musick** [Shi13]. **Muskegon** [SWS10]. **Muskellunge** [KSF13, MMY12, SHC+16, WEW12, WLLCF16, WKC18, WLW16]. **Mussel** [WBW+13]. **Mussels** [KS11, MBG10]. **Mutagenic** [VSBB+14]. **mykiss** [BCRP13, BBC14c, BCH+11, BWRA16, HBTT11, NZF+11, SMS+12, TRLG13, WBM+17]. **Mysis** [AHS+11b, PB16]. **Myxobolus** [FWB+15, KKB+10, PDP12].

N [VSBC13]. **Naivety** [HVD+16]. **Namakan** [SCW+13]. **Natal** [BFK15, BQF+19, SBC17, TL14, WCMP13, ZSVK13]. **National** [BCS19, MDD+16, SGK16, Yas16]. **Native** [ABM17, BDTD17, BBF+18, BB10a, BHD+16, BRG19, BGOQ13, CKM+11, DWGF11, DW15, DWN+15, ER18, FBWT19, GP12, HBC15, HB18, HUSST19, JKP10, JBV13, KRRW18, LRH12, LYX+10, MSB+18, MMY12, SRMB+14, SMY11, SPR+16, SBDW11, Sto10, SGK16, TD13, WB15a, WDHW14, WCD+11, WLW16]. **Natives** [BB10a]. **Natural** [Ano11a, BEWM10, BGV11, CCH15, CWP+19, DML+10, DSB+18, EBMV10, FPM15, FS16, HBC15, HAR18, Hoe17, HSE+12, LHS+13, Lis14, Lis15, LDA+13, MSD+19, MSP12, RB12, SAW+17, TNOU11, TP11, TC11, TW14, TS13, dHST13]. **Natural-Channel-Design** [BEWM10, EBMV10]. **Natural-Origin** [CWP+19, DML+10, LHS+13]. **Naturalized** [JKP10, MM17]. **Naturally** [JSW+15, KBO+12, SVKK18]. **Nature** [CHH+16, FHCSN12, LMPvdH18, RHEF19]. **Nature-Like** [CHH+16, FHCSN12, LMPvdH18, RHEF19]. **Near** [BSCA17, SFB16, MCH+13, YSC10]. **Near-Coastal** [SFB16]. **Nearby** [QHS+13]. **Nearshore** [DBS+10, JRBC13, RMC+17, TBL+17]. **Need** [TBC+13]. **Needed** [GNV+14, KMKS13, SR10]. **Needs** [PTG+10]. **Negative** [IWB+13]. **Nekton** [FSP+17, JPRS10, RC16]. **Neotropical** [CBM+13, Var13]. **nerka** [WAW11]. **Nest** [LS10b, SAS17]. **Nesting** [ARC+13, PWP13]. **Net** [BHC+18, HGS+16, PTPS10, Sto10, SL16]. **Nets** [PNMH+12, RC16]. **Network** [ERL15, MLS+13]. **Neutral** [KHK+15, PDSP+11, PBC12, WKS+19]. **Neutrally** [JBC+12]. **Nevada** [BRGR10, DSAM12, ESD+17, PPW+14]. **Next** [LFB+15]. **Next-Generation** [LFB+15]. **Niche** [FRBA13, FRA13, JK17, RB18, WB15a, WB15b]. **Niches** [DWE+18]. **Nile** [HAR18, VSBB+14]. **Ninespine** [MBG10]. **Nitrogen** [QSJ12]. **Nitrophenol** [CHB+12]. **NMFS** [Yas16]. **NMFS-F** [Yas16]. **NMFS-F/SPO-125** [Yas16].

No [TLKT17]. **NOAA** [Yas16]. **Nonequilibrium** [HGP+17]. **Nongame** [MK10, WK13]. **Nonindigenous** [Gre12, HHES13]. **Nonlethal** [CCL+19, HOGO10, MSD18]. **Nonlethally** [DJ17]. **Nonmigrant** [MH11]. **Nonnatal** [DF11]. **Nonnative** [BB10a, BHD+16, BR14, CYP11, DWN+15, ESD+17, GP12, HBB17, HRHS16, HMW19, HGSG17, HWN15, JBV13, KRRW18, KSB16, MWG18, NB13, OMA13, SRMB+14, SMY11, SDOK19, SPR+16, SGK16, WB15a, WDHW14, vZNW12]. **Nonneutral** [PDSP+11]. **Nonsalmonid** [LMPvdH18]. **Nontidal** [DK18]. **Nonvisual** [DA12]. **North** [BDTD17, BB10b, CTG14, GN13, Gid14, LKP+13, NG13, NAWM14, SH12, SFH15, Wei10, ACDL19, AMBM12, BJA+13, BWDM11, BRA14, CEM+19, DDMR10, DK18, FBH+13, GMB+19, HARL18, HKO+18, JPHK10, MWT14, MBPP18, PSGB13, PDH+18, RB12, RH14, RBE+10, RLL+19, SHCB16, SDW17b, THNG14, WBW+13]. **North-Central** [JPHK10, MBPP18, PDH+18, SDW17b]. **Northeast** [Yas16, DHB15]. **Northeastern** [MAS10]. **Northern** [ACK17, CZK+17, CKS+19, FSP+17, GRS12, GIW+13, KGC+12, KBG+18, LDLH15, LN18, OI16, PTPS10, PCC+13, SHC+16, WCD+11, ZBHW16, CHH+16, GRDO13, GGP+15, GCA+18, GSJS17, GSD+12, HPG10, JKP10, JMM+11, MSD+19, MS12, PS14, RCM+19, SS18a, SFB16, SGP16, SS11, SCB15, WSI14]. **Northern-Strain** [WCD+11]. **Northumberland** [HCR14]. **Northwest** [DG19, FJP18, JZBP16]. **Northwestern** [BJC12, ILH+18, MBG+11]. **Notes** [CTG14]. **Novel** [CBW+16, DPS14, EBF+14, GS16, MSW+10, WCN+19, WB15b]. **Nuclear** [WMG+14]. **Nucleotide** [CHS+11, EBF+14, GMP+11, HSM+10, LFB+15, MSW+10, NB13, STS+14, SSH+11a, AHS11a, CVL+19, HN11]. **Number** [BSS18, DBB+12, GDG+15, JCS14, JHK+19, MSS+17]. **Numerical** [HD16]. **Nurseries** [BFK15]. **Nursery** [ASJ16, ASJ17, DGMC17, EBG18, MNS+19, WCZT11]. **Nushagak** [KQ11]. **Nutrient** [CS16, KPZ+12, WM12]. **Nutritional** [SPH19].

O [GDPW10]. **Oahe** [WBD14]. **Oakland** [Gid14]. **Objectively** [GBB+14]. **Observation** [FBP11]. **Observations** [FSFS17, HL10, JPH17, KST+12, MNS+19, MR11, WvPC12]. **Observed** [DMR+10, SMMK12]. **Obstacles** [SHR+12]. **Occupancy** [AFHF12, GBF12, JSW12, KO16, PSB16, PVJH15, QHS+13, RG15, RG16, SMMK12, WDDS13]. **Occurrence** [DW15, KLR+15, MWT14, PDP12]. **Occurrences** [PVJH15]. **Occurring** [Han11, KBO+12]. **Ocean** [BNS+16, BCM+19, CNM+18, FWT+14, Lev18, Qui19, SMO+14, SCC17, TTW+11, AKM12, AMBM12, CTG14, DG19, GMP+11, GN13, JZBP16, NG13, NAWM14, RBE+10]. **Oceanic** [BA13]. **Oceanography** [Pet15]. **Oceans** [RBE+10]. **Odd** [IMO+14]. **Odd-Year** [IMO+14]. **Odor** [SJGL16, SFF+10]. **off** [FRRCGA+15, KSSK+17, QSVD11]. **Offer** [TRW10]. **Offers** [JZS+19]. **Office** [Yas16]. **Offs** [BGV11, KRRW18]. **Offshore** [Ada18, DBS+10, KBG+18, PDSP+11, RA10]. **Offspring**

[BVA11, BBC14c, CGB19]. **Ogeechee** [JPFB13]. **Ohio** [PZS17, WKC18]. **Oil** [RMC+17, RCM+19, SFB16]. **Old** [RCD+11]. **Olfactory** [HDQ+17]. **Oligohaline** [SGB13]. **Olympic** [KO16]. **Omission** [Con17]. **Omnivorous** [CS16]. **Oncorhynchus** [BCRP13, BBC14c, BCH+11, BWRA16, HBTT11, NZF+11, SPM+17, SMS+12, TRLG13, WAW11, WBM+17]. **Oneida** [DCJ+13, VFB+16]. **Ontario** [BMM10, Esh14, FBB+13, GCM12, MCO+10, SCW+13, ZZMC13]. **Ontogenetic** [DBS+10, HSSS16, Han11, LS16, MHF12, RGP17, RL19, SDBB12]. **Ontogeny** [LB15, SCB15]. **Operating** [BSCA17]. **Operational** [KVA+19]. **Operations** [PBB+15]. **Opercular** [BBF+18]. **Optimal** [DBB+12, HP14]. **Options** [TBC+13]. **Order** [Poe14]. **Oregon** [AGJ11, BHD+16, BCF+11, DSRA12, FBS+14, HGBE16, KBC+18, MSW+14, MFR15, RSL11, VBJS10]. **Organic** [JAA+13]. **Oriental** [KU12, UK14]. **Orientation** [RFM+15]. **Origin** [BAKT12, BRK+18, BBG+18, CCH15, CWP+19, DF11, DML+10, HSF12, HSA+16, LHS+13, Lis14, Lis15, MSWS10, MM10, OWP+17, RGM+11, RT14, SSH11b, SBC17, TL14, WM12, WHP14, WMW+12, ZSVK13]. **Origins** [CPS+15, SYH+15]. **Ornamental** [HLH14, HTH+17]. **Oscillations** [MJS+19]. **Osmoregulatory** [ZZD10]. **Other** [PFG19, AJF10, PTPS10, RBE+10]. **Otolith** [ASJ15, BBG+18, CBVF15, CC16, CBM+13, DMHO12, FDWG13, HS17, HLR+12, HPHB10, LS10a, NW14, PBW16, RMMGPB16, SMJ14, SYH+15, SBC17, TL14, VBJS10, ZSVK13]. **Otoliths** [BFK15, BSM13, BSR12, BSSP18, GDPW10, GNV+14, LS16, LS18, TL15]. **Otter** [BMC+13]. **Out-Migrant** [RSB14]. **Out-Migrating** [MGWP10]. **Out-Migration** [CNM+18, FP19, HER+11]. **Outbreeding** [DSHG10]. **Outcome** [CW11]. **Outcomes** [SDOK19]. **Ovary** [PSM12]. **Overdispersion** [MK16]. **Overestimates** [JHK+19]. **Overestimation** [HD16]. **Overexploitation** [ZHWR11]. **Overfishing** [BHG+10, Lev18]. **Overlap** [FRBA13, MLBS+13, SRMB+14, WCZT11]. **Overlapping** [SR15]. **Overriding** [Sto10]. **Oversummer** [GNMM12, OPHD18]. **Overwinter** [FBJR11, Mic10, PM10, SW11, TFM+18]. **Overwintering** [Bel12, BDM+10, UWL12a]. **Ovigerous** [DDMR10]. **Owens** [FPM13, GLM+15]. **Oxbow** [DM11a]. **Oxygen** [AS12, AW19, GWB+15, KM10, SSS+12]. **Oxytetracycline** [DMHO12]. **Oxytetracycline-Marked** [DMHO12]. **Oyster** [DHB15, PE14].

Pacific [AMBM12, CTG14, FJP18, AGH18, CN11, CORM13, DJ17, DHB15, EB16, FBWZ19, GMP+11, HB17, JCK+12, JSW12, KST+12, KCM14, KCJ+15, LB15, MHF12, MSW+14, MCC+12, MCT17, MOS13, PKPS11, Qui19, RG15, RG16, SNP+10, SS15a, SS18b, Spi12, WCYH18, WBD17, YSW+14, ZSVK13]. **Paddlefish** [PGW+11, PGWS15]. **Paddlefishat** [SDW15]. **pages**

[Ber13, Cha13, Chi13, Chr14, Fle16, HCD+14, LDA+13, Nel14a, Pet15, Pra14, Qui16, Ryp13, Shi13, Smi13, Var13, Yas16, Zyd11]. **Pain** [AGH18]. **Paiute** [SPM+17]. **Pallid** [BH11, EBF+14, HKKS14, JHK+19, KBO+12, PTG+10]. **Pamunkey** [KHW+14]. **Panel** [LFB+15]. **paper** [Chr14, HCD+14, LDA+13]. **Paradigm** [MJS+19]. **Parahucho** [FSRK11]. **Parameters** [PPH15, PM15, SH10, UWL12b]. **Parasite** [CRC+16, PM10, SPCJ11]. **Parasite-Induced** [PM10]. **Parasitism** [FSW10]. **Parentage** [HSA+16]. **Parentage-Based** [HSA+16]. **Parental** [BQF+19, JRP12, NMH12, OWP13, TM19]. **Parents** [JSW+15]. **Park** [MDD+16, SGK16]. **Parr** [CT12, FJP18, JJC12, KRM11, KRM13, VSC15]. **Parr-to-Smolt** [CT12]. **Parrish** [Ryp13]. **Parsons** [Chi13]. **Part** [PF11b]. **Partial** [OS11, RKF+13]. **Partially** [BBC14c, GP12]. **Partitioning** [MKK15]. **parvum** [VFFP13]. **Pass** [HKR18, PF11a]. **Passage** [BMB+10, BDBE11, BCG+12, EWSR16, FBWZ19, FHCSN12, LMPvdH18, PBC12, RHEF19, SDW15, WCZ+18, YITI12]. **Passing** [BSCA17]. **Passive** [CHR+17, Cla16, DM11b, EHR+12, EPT+16, HB17, HLK11, SDW+17a, SFF14, SJFF15, Cha13, ELC13, MCC+12]. **Past** [MSP12, NB13]. **Patagonia** [JMM+11, JBV13]. **Patagonian** [OS11]. **Path** [ILH+18]. **Pathogen** [BNC+15, HER+11]. **Pathogen-Associated** [BNC+15]. **Pathogen-Free** [BNC+15]. **Pathogens** [RPSB14]. **Pathway** [HJM+12]. **Pathways** [BBC+14a, HBA+15]. **Pattern** [HGBE16]. **Patterns** [BFH14, BA13, BLB+13, CBAC19, DHRQ10, EBG18, EPR+18, FDWG13, FPR+18, FWT+14, FBS+14, FRM18, GPBA18, JMB+13, JJC12, KBG+18, KHD+14, LAR16, MSW+14, MBPA13, MBH12, MVP15, MBBM10, NCW+17, PET+17, RG16, RKF+13, RRG+17, RO16, SMM13, SSH+11a, SMS+12, SJFF15, SMMK12, UACS+19, VCP+14, WMV+16, WSQ+15, WB13b, WSK11]. **Paul** [Ber13]. **Peacock** [BN16]. **Pectoral** [BSR12, BSSP18]. **Pedigree** [HBS12, HCNL10]. **Pelagia** [AHS+11b]. **Pelagic** [BGB+16, EB16, FSP+17, GRDO13, OSS+17, SGP16, SBW14]. **Pellets** [WHC+10]. **Peninsula** [TRHHOGSJ14]. **Pennsylvania** [BBAK19, BMP+17, KRRW18, SDW17b]. **Penobscot** [SZZ10, FZZ+10, GBZ14, HKZ11, OSS+17, RSG12, WCZ+18]. **Percent** [BRK+18]. **Perceptions** [WCYH18]. **Perch** [AGKH17, BPS11, BDS10, BRA14, CM11a, FRBA13, FRA13, GMP+11, GSVS+10, IHTF11, JRBC13, KGW14, LSPB11, MCSF14, MD11, RCD+11, RBF+11, SR10, SSS+12, SB12a, SS15c, VFB+16, WDW11, YJW11]. **Performance** [BMB+10, Cla16, CHW+13, DBC+10, GSD+12, HP14, JBC+12, JPG+18, JLA17, KVA+19, LHHL17, MDP12, MGW13, PB15, PPF+13, SDW+17a, YSC10, vS10]. **Periodicity** [BJR14]. **Periods** [KGC+12, SGB13]. **Peripheral** [DKD+15]. **Peritoneal** [BDB+15]. **Permanent** [HLK11]. **perryi** [FSRK11]. **Persist** [HSM12]. **Persistence** [BZ12, CRH10, GWG+19, HDH16, ZTC12]. **Persistent** [JAA+13, SE11]. **Perspective** [MBEvdB+10, MVK12, RCD+11]. **Perspectives** [CBM+13, MVK12]. **Perturbation** [VIW+17]. **Perturbed** [LSPB11].

Pervasive [Nel14b]. **Peshtigo** [CSED10]. **Pesticide** [CHB+12]. **Peter** [Pra14]. **pH** [LRM+10, WCD+11]. **Phase** [BMM10, RLL+19, SHR+12, WL13]. **Phased** [AGH18]. **Phased-In** [AGH18]. **Phelps** [Chi13]. **Phenological** [CHMG+18]. **Phenology** [BS18, LRR+15]. **Phenotypes** [BVA11, BRG19]. **Phenotypic** [BEMF11, CHO+15, DBHV14, LCO+15, LCHB+18, WKS+19, WCQD18]. **Pheromone** [YSW+14]. **Phototaxic** [TBL+17]. **Phylogeographic** [GHPS+16]. **Physa** [SPCJ11]. **Physical** [ACRA10, ACRAM11, MAH+12]. **Physiological** [BMC+13, DYWY17, DEP+18, GWB+15, KH13, LMD+17, TKC+18, TBGM12, VWS13, YSC10]. **Physiology** [Cla16, MGW13]. **Piedmont** [CHR+17, THNG14]. **Pigmentation** [BDB+15]. **Pike** [Gre12, GIW+13, KBG+18, LDLH15, PTPS10, PCC+13, ZBHW16]. **Pikeminnow** [SHC+16]. **Pikeminnows** [DF14, HOWS10]. **Pine** [BHK+10]. **Pink** [IMO+14, MSS+17, RCC+13]. **Pinto** [BRS+12]. **pipiens** [ACK17]. **Piscicide** [BSHK+11]. **Piscicides** [BAZ12]. **Piscivore** [KM14, RSBF14, SBO12, SRP+18]. **Piscivores** [KKB+10]. **Piscivorous** [HBS13, JBV13, LRH12]. **Piscivory** [EPW15, HBB13, YCB+11]. **PIT** [ELC13, MCC+12, MKH13, AUDL18, BFH14, SCL+13, VSC15]. **PIT-Tagged** [SCL+13]. **Placement** [PPJ15]. **Plaice** [MLC13]. **Plain** [MSK15, MP10, OSA+17, THNG14]. **Plains** [BKC+19, BWHF17, BP10, FBF10, FMJ11, MLB18, MBG+11]. **Planktivory** [HTR13]. **Plasma** [BS16, MGK+18]. **Plastic** [DBHV14]. **Platforms** [RMC+17, RCM+19]. **Played** [ER18]. **Plume** [SFF+10]. **Point** [Yas16]. **Points** [RJH12, SR10]. **Pollock** [MHF12]. **Pollutants** [JAA+13]. **Polluted** [WHSK19]. **Polycyclic** [MHPB14]. **Polyhaline** [FWSW+15]. **polykrikoides** [RGP17]. **Polymerase** [BSC+16]. **Polymorphic** [SSH+11a]. **Polymorphism** [CVL+19, CHT13, EBF+14, HN11, LFB+15, NB13, STS+14]. **Polymorphisms** [AHS11a, CHS+11, GMP+11, HSM+10, MSW+10]. **polyphemus** [MBP+11]. **Polyphyly** [HOWS10]. **Ponds** [BNW+12, LLWW19]. **Pontchartrain** [vVO10]. **Pool** [DW16, LMPvdH18]. **Pool-and-Weir** [LMPvdH18]. **Poor** [NBC15]. **Population** [ACMM+15, ACDL19, AKM12, ASP+18, AGKW12, ASJ16, ASJ17, BP17, BYM19, BWDM11, BBAK19, BRA14, BCM+19, BBS12, BMP+17, BLB+13, CS16, CBM+13, DCS+17, DSAM12, FQW+10, FSN+13, FMG+11, GGHS+14, GA10, HLB+16, HKR18, Han11, HSM12, HMSG+11, HLK11, HPSA16, HCS+16, HCNL10, JLV+10, JPFB13, KGC+12, KSF13, KR18, KHHG13, KU12, KRM13, LEM+11, MSS+11, MBL+18, MSP12, NB13, NR16, NDW10, OMA13, OS11, PGJ11, PM13, PHG+16, PGW+11, PM10, RL14, RRA+15, RPC14, RKEB13a, RKEB13b, SR10, SS18a, SMM13, SH10, SB12b, SBDW11, SFLH14, Spi12, SS15c, UWL12a, VHJ+15, VB14, WvPC12, WAW11, WSI14, WRQH17, WF19, WCN+19, WAKH12, WHP14, WOM14, ZBHW16, CWP+19]. **Population-Level** [FQW+10, GA10, NDW10]. **Populations**

[AMM+16, AGKW12, BBGB15, BSGB17, BGLP19, BLCN+10, Bea10, BSC+10, BBAK19, BJC12, CVL+19, CCH15, CHO+15, CRH10, CVB14, CJG13, CHS+11, DSHG10, DKD+15, DW16, DSRA12, DHRQ10, DA16, Eva17, FWD10, GSD+12, GSVS+10, GMB+19, HLB14, HBTT11, HVD+16, HSE+12, HMSG+11, HEC+15, HWN15, JPLS13, Lis14, Lis15, MSB+18, MHN11, MWSS13, MNM+17, MMY12, MSS+17, NDC+14, OWP+17, OWN11, PRW+10, PPF+13, PPH15, RMC+17, SDK+10, STS+14, SB12a, SMY11, SDSB18, SSM16, TNOU11, VFFP13, WBR11, WKS+19, WLW16]. **Portable** [ARB+18]. **Portion** [DHA+17]. **Position** [RFM+15, TRHHOGSJ14]. **Positive** [PPMJ14]. **Possible** [HM17]. **Post** [MHPB14]. **Post-Deepwater** [MHPB14]. **Postcapture** [DDMR10, RHR+15]. **Postcopulatory** [DK18]. **Posthatch** [LS18]. **Posthodiplostomum** [SPCJ11]. **Postrelease** [HBC15, TLM+19]. **Postsmolts** [LKS+12, RSG12]. **Postspawning** [EB16]. **Poststocking** [HDBS14]. **Postsurgical** [CHW+13]. **Pot** [DDMR10, SFF+10]. **Potamodromous** [FFYI16]. **Potential** [ARL+12, AUDL18, ARC+11, ARC+13, BDS10, BCRP13, BHP+15, BES15, CHLN15, DDMR10, DEW+14, DCBKR14, DSB+18, FRA13, HWD14, MT19, MBBM10, NAG13, PWP13, PGW+11, PM10, TKC+18, WBW+13]. **Potholes** [MGWP10]. **Potomac** [OI16, WL13]. **Pounder** [HWD14, PHM17]. **Practices** [CEFQ11, RPVS15]. **Pre** [HDBS14]. **Pre-** [HDBS14]. **Precision** [AHS11a, BFM10, HSF12, KM10, KDS18, VSC15]. **Precocious** [JJC12, LBC10]. **Predation** [AS12, ARL+12, BDS10, CSED10, CML19, ESD+17, ETC18, EHR+12, EPT+16, EPC+19, FBP11, HERC12, HEC+15, JJNB17, KST+12, KRM11, KRM13, LSD+14, LB15, MLBS+13, NLF13, PW10b, PK11, RBK+11, SPC+18, SBC+16, SCL+13, SS13, SHC+16, WMS15]. **Predator** [BPS11, CW11, DW13, EPW15, GS13, HN13, HB18, HEC+15, JBC+12, MAH+12, NPW12, NLF13, OGM+15, SDOK19, SGK16, TJB+14, WDWC10, ZBHW16]. **Predator-Specific** [HEC+15]. **Predators** [AGKH17, CW11, HKP11, KBG+18, OMA13, OWN11, WEW12]. **Predatory** [HSSS16, SBO12]. **Predict** [BHC+18, GvdHBC12, HGS+16, LSSYL10, WTB10]. **Predicting** [DW15, PSM12, PM19, PCT+12, PPD16, SR10, SWS10]. **Prediction** [EPS+15]. **Predictive** [SARC13]. **Predictor** [MYS+11]. **Predictors** [BC12, MBL12, SGP16]. **Predicts** [FBWT19, MGK+18]. **Preferences** [CTK+17]. **Preliminary** [RMW16]. **Preparation** [GDWD10]. **Preparations** [RNG+13]. **Prerestoration** [HKZ11]. **Presence** [PDSP+11]. **Present** [MSP12]. **Preservation** [FH12, OPS+14, VSBC13]. **Preserving** [PRW+10]. **Presmolt** [MGW13]. **Prespawn** [BNC+15, BRK+18]. **Press** [Cha13, Gid14, Pra14, Qui16, Shi13, Smi13, Var13]. **Pressure** [GIW+13]. **Prevalence** [EFC+11, HER+11, MHPB14]. **Prey** [BAKT12, CW11, CSDW10, DW13, DCJ+13, DA12, EPW15, GJC+18, HBS13, HN13, HB18, JC16, JBV13, KGW14, KLS17, KBG+18, KR18, LJHL10,

MBH12, MCO+10, NLF13, NCW+17, PW10b, PW10a, PB16, PHFN17, PGR13, SDOK19, SHCB16, TES14, TAM15, TJB+14, WDWC10, YCB+11]. **Primary** [JRP12]. **Primer** [FVK+18]. **Principles** [Mat18]. **Prior** [QHS+13, WBM+17, GBZ14]. **Prioritization** [EPS+15]. **Prioritize** [WB15a]. **Private** [AJF10, AJF13a]. **Probabilities** [CGL+11, HEC+15, MH11, PF11a, PVJH15, PDM+14, SL16]. **Probability** [MLB18, PCT+12]. **Process** [NAW12]. **Processes** [HGS+16, MSP12]. **Processing** [GNV+14]. **Produced** [BSS18, QSJ12, THKG10]. **Production** [BMF+15, BB10a, HGB+16, HTR13, MC14, MVP15, PM19, SFLH14, TTM+15]. **Productivity** [CCH15, KPS+19, Lis14, Lis15, Mic10, WOM14, WHC+10]. **Professionals** [LDA+13]. **Profiles** [DEP+18]. **Progenitor** [MSWD15]. **Progeny** [BQF+19, BSS18]. **Program** [BCF+11, CYP11, CTP+12, LLWW19, MNS+19, ZBHW16, Pet15]. **Programs** [BGV11, CPS+15, SWB+16]. **Progress** [TH15]. **Projection** [SR10]. **Promote** [HDH16]. **Prone** [DMW+19]. **Pronounced** [WLW16]. **Propellers** [KMM+11]. **Properties** [PPF+16]. **Propofol** [VSBB+14]. **Proportion** [HSF12, HSA+16]. **Proportional** [WBR11]. **Proportions** [CCKF11]. **Protect** [BYM19]. **Protected** [GWG+19, SPCJ11]. **Protocol** [BMTP13]. **Protocols** [BSC+16]. **Provide** [AHS11a, BFK15]. **Provides** [CRC+16]. **Proximate** [Mit16, PM14, SF15]. **Proximity** [MS12]. **Prymnesium** [VFFP13]. **Pseudogene** [MSWD15]. **Public** [AJFO10, AJF13a, AJF13b]. **Publication** [Yas16]. **Publishing** [Ber13]. **Puget** [RGM+11, CEFQ11, DBS+10, GCG+18, RKF+13, WAFL10]. **Pughead** [SO15]. **Pulse** [GIW+13]. **Pulsed** [BN16, CBM15, SBO12]. **Pulses** [FH17]. **Pupfish** [FPM13, SPCJ11]. **Purebred** [BDB+15]. **Purgatory** [ILH+18]. **Purifying** [MKHC17]. **Putative** [BWRA16, Esh14, YSW+14].

Quality [ARC+13, BPS11, EBMV10, HK12, LHHL17, PWP13, PKL+11, TES14, UNTA10]. **Quantification** [ELC13, TH15]. **Quantify** [BSGB17, PVJH15, VIW+17]. **Quantifying** [ACRAM11, BCG+12, HEC+15, LSJN13, MH11, MLB18, SBO12, SA16, WHF+12, WM12]. **Quantile** [CTN11]. **Quantitative** [BSC+16, HCW14, MCT17]. **Quantitatively** [JPRS10]. **Quantity** [MNM+17, RB12]. **Quebec** [HNK+12]. **Queen** [HAV+19]. **Quinton** [Chi13].

R [Chi13, Chr14, Shi13, Var13]. **Radar** [BDM+10, TFM+18, WTB10]. **Radar-Derived** [WTB10]. **Radio** [JCK+12, KCM14, TPA14]. **Radio-Tagged** [JCK+12, KCM14]. **Radiocarbon** [MLC13]. **Radiotelemetry** [GCM12, KST+12, TPLA16]. **Rain** [GWB+15]. **Rain-Induced** [GWB+15]. **Rainbow** [BS13, CML19, DWN+15, FWB+15, FFYI16, HP14, IBH12, JJNB17, JMM+11, KKM11, KYK17, LMPvdH18, MGP11, MSW+10, MHE12, MKHC17, OTR+14, ODG+11, PB15, PGJ11, PT10, RL19, SPR+16, TD13, WMS15, WAR12]. **Rajidae** [MAS10]. **Raker**

[RB18]. **Ramp** [RHEF19]. **Random** [SDBB12]. **Range** [BAHP11, CKM+11, DW15, PF11b, RG16, SK11, SMM13, VCP+14, ZTC12]. **Ranges** [PS14]. **Rangewide** [BLCB13]. **Ranking** [TNS+14]. **Rapid** [HAR18, HMSG+11, WNCF10]. **Rare** [NLF13]. **Rate** [BDS10, Eva17, HLB14, HGS+16, LJHL10, SLG+14, TRLG13, TL15, YJW11]. **Rates** [BMH19, BVA11, EBA+19, HMTC12, HN13, HBB17, HAR18, HVD+16, HSE+12, HGP+17, KMM+11, KKM11, MH11, NB12, PGWS15, SPR+16, Sto10, WAFL10, ZBW10, dHST13]. **Ratio** [CPS+15, VSBC13]. **Ration** [GDM+11]. **Rations** [PB15]. **Ratios** [RBF+11]. **Raton** [Shi13]. **Ray** [SWH+17]. **Rays** [BSR12, BSSP18, CMM+17, Pra14]. **Razorback** [DSAM12, ESD+17, PFG19, ZBW10]. **Re** [PM15]. **Re-Estimating** [PM15]. **Reach** [JZS+19]. **Reaches** [DW15, REN17]. **Reaction** [BSC+16]. **Reappraisal** [GDG+15]. **Reared** [BJA+13, DWE+19, EWW13, MSWS10, SZZ10, SVKK18, SNI+13, TB16, TPLA16, TLM+19, ZBW10]. **Rearing** [BCP+11, BHS+17, BWD+17, CEFQ11, CSD+14, DF11, JADJ+14, NRZ+13, PB15, PPP+13, SLG+14, TES14]. **Rebuild** [AGH18]. **Recapture** [ASP+18, Eva17, HLB+16, HLK11, HRG12, MK16, PGWS15, WvPC12]. **Recaptured** [DMHO12]. **Recognized** [Nel14b]. **Recognizing** [SSH11b]. **Recolonization** [LPM+17, PKL+11, WBM+17]. **Recolonize** [HCZ13]. **Recolonizing** [BLB+13]. **Recompression** [BS16]. **Reconditioned** [JPG+18]. **Reconnected** [RDR+10]. **Reconnection** [NDP16]. **Reconstruct** [SWH+17]. **Reconstructing** [FSRK11, VBJS10]. **Reconstruction** [HBS12, HCNL10, PPJ15, SMN+10]. **Record** [SO15]. **Recoveries** [EHR+12, Wei10]. **Recovery** [ARB+18, BGLP19, CGL+11, CHB+12, FCG+17, HGB+16, HEC+15, HPSA16, JAA+13, PB15, PTG+10, PET+17, RFM+15, TBGM12, VB14, YSC10]. **Recreational** [AJFO10, AJF10, AJF13a, AJF13b, BGB+16, DPS14, KQ11, KAH16, WBR11]. **Recruiting** [DSAM12, ZZMC13]. **Recruitment** [ARC+11, ARC+13, BP16, CBMR14, CVB14, DMRK14, FBF10, FWSW+15, GSA+19, JRBC13, JM14, KWCI10, KYK17, MHE12, MS13, MS12, OTR+14, PW10a, PWP13, RCD+11, RAB+18, RMW16, SP10, SA16, SM13a, SS13, SS11, SMMK12, THL+17, VFB+16, WB13a]. **Recruits** [ASJ16]. **Red** [BCMPDSZ10, DSB+18, GWG+19, JPLS13, MS12, PS14, PDH+18, RSVAB19, SJ11, SFF+10, SAW+17, SCB15, TS13]. **Redband** [CM10, DFB15, HSM12, HS13, KCMS11, PGJ11, SLM10]. **Redd** [Dud19]. **Redds** [BGV11]. **Redfish** [KPS+19]. **Redhorse** [FK18, FKH15, SJFF15]. **Redside** [BMTP13]. **Reduce** [MVK12]. **Reduced** [CRC+16, LRM+10, MWG18]. **Reduces** [WNCF10]. **Reduction** [Arc16, LS10b, PPMJ14]. **Reductions** [FBF10, GWB+15]. **Reed** [LDLH15]. **Reef** [GSD+12, JDS15, PE14, SDBB12]. **Reefs** [DSB+18, PS14, RB12]. **Reference** [RJH12]. **Reflect** [RSBF14]. **Reflex** [BC12, CCB16]. **Refuge** [BNC+15, BCS19, BNS+14, CRC+16, FJJ+12, JJNB17]. **Refuge-Seeking** [BNS+14]. **Refugia** [MSH17, PHHM12]. **Regarding** [TBC+13]. **Regime** [BWHF17, GP12]. **Regimes**

[BHD+16, GJC+18, HR15, MSD+19, RB13, RBF14]. **Region** [BMP+17]. **Regional** [AGJ11, EPR+18, OWS16, SJ11, VJGV11, Pet15]. **Regional-Scale** [EPR+18]. **Regionalizing** [FA10]. **Regions** [MGP11, MSS+17]. **Regression** [CTN11]. **Regulate** [WB13a]. **Regulated** [FKH15, HK12, KKM11, WRQH17]. **Regulating** [SWP+18]. **Regulation** [MRPW19]. **Regulations** [SDSB18]. **Rehabilitation** [KWW14]. **Reintroducing** [SHCB16]. **Reintroduction** [MNS+19]. **Reintroductions** [SHC+16]. **Reis** [Var13]. **Reject** [AGKH17]. **Relate** [VFB+16]. **Related** [BNS+14, CHPG12, DWN+15, HK12, KQ11, MK16, MR11, OPHD18, PT10, SZGS12, TB14, UACS+19, WBD17]. **Relation** [DM11a, JPSM12, KCJ+15, LKP+13, MSD+19, MK15, PA10, RT14, RB18]. **Relations** [BK11, FKF+19a, RHW15]. **Relationship** [BWRA16, DLHF16, EHC+14, HER+11, RZW+12, RMW16, WBW+13]. **Relationships** [BLCN+10, CM11a, LHHL17, MOS13, RR13, SF15, SM13a, TA12, WSI14]. **Relative** [BS15, BMM10, BA13, CN11, HHJH17, JSW+15, KDS18, MSWD15, PFG19, PA10, RL19, SCL+13, SWB+16, SIKR17, WF19, WBMG10]. **Relatives** [Shi13]. **Release** [BQF+19, CS16, CEFQ11, CFHE11, FM17, KAH16, LUC+15, LSV+13, RHR+15, TBC+13]. **Released** [BNS+14, KPS+19, SVKK18, SNI+13]. **Reliable** [CYW+19]. **Relief** [KCM14]. **Relocation** [LPM+17]. **Remain** [CEFQ11]. **Remnant** [AGKW12]. **Remote** [DFB15, WRP+12, WTB10]. **Remote-Sensing** [WRP+12]. **Removal** [BHK+10, FWB+15, GBZ14, HGB+16, HEW12, HCZ13, HCZG15, JZS+19, PPJ15, QHS+13, STZ13, SDOK19, WCZ+18, WCMP13, WBM+17, WZK+15, ZBHW16]. **Removals** [RH14]. **Removing** [LV14, MKHC17]. **Repeat** [JPG+18]. **Replace** [BB10a, HKR18]. **Replacement** [ER18, ERL15]. **Reported** [AJFO10]. **Representative** [BCF+13, DA16, FRA13]. **Reproduction** [BH11, FBWT19, GDG+15, GSJS17, HGSG17, MBPP18, PW10a, RJWK10, SSM16, THL+17]. **Reproductive** [BVA11, BCF+11, BS16, BGW+17, BCMPDSZ10, BJR14, CABNQ+13, CTG14, Con17, DDMR10, DSB+18, FK18, GSR+11, HAV+19, HM17, JCS14, JPG+18, KSSK+17, KMS+18, LF15, LRR+15, MR11, NDC+14, NG13, OWN11, OSDT18, PSM12, PCFH17, QSVD11, RNG+13, SCW+13, SA14, SE11]. **Required** [CGA13, HCD10, MNM+17]. **Requirements** [HGS+16, PB17]. **Research** [Nel14b, Yas16]. **Reservoir** [ETC18, FRBA13, FRA13, LAR16, MGWP10, MBPA13, SCW+13, SHC+16, TES14, WF19, WB15b]. **Reservoirs** [BRA14, HBB17, HARL18, Mic10, MS13, MFR15, PNMH+12, RHKD12, SM13a, SHCB16, SL16, TRW10, TKC+12, VFFP13]. **Residence** [BNTT17, GCG+18]. **Residency** [FDWG13, MBH16, WSK11]. **Resident** [BWRA16, CMM+17, CM10, FRBA13, FPM15, MS12, SHCB16, TAM15, WAR12]. **Residualization** [MH11]. **Resilience** [PAA14, RCC+13]. **Resistance** [Rey16]. **Resistant** [FWB+15]. **Resolution**

[ACB+14, HPG10, MSW+10, WR14]. **Resolving** [MHN11]. **Resorption** [HCW14]. **Resource** [BMTP13, CHLN15, CBM15, FH17, LDA+13]. **Resources** [BCRP13, GJC+18]. **Respond** [SJGL16]. **Response** [ACDL19, ARC+13, AKK+19, AMBM12, CWP+19, DEP+18, DBHV14, EMS+14, EB16, FPD12, FPR+18, HCZG15, JKP10, JMM+11, LRM+10, Lis15, PHHM12, PPC13, PE14, PPP+13, PKPS11, SHH+19, Str12, TASC17, WRQH17, WCYH18, WZK+15]. **Responses** [BEWM10, BCF+13, BSCA17, BAR15, FQW+10, GWB+15, HBS13, LRM+10, MWS10, MT19, NDP16, OGM+15, RBZ+17, RBK+11, SR10, SS18a, SDSB18, TBGM12, VWS13, VIW+17, YSC10]. **Responsible** [CEM+19]. **Restoration** [AKK+19, BEWM10, DEW+14, EPS+15, EBMV10, FPR+18, Lan16, PPC13, PPMJ14, PE14, WB15a]. **Restore** [JADJ+14]. **Restored** [JZS+19, MWS10, PPW+14]. **Restraint** [CJL+14]. **Restricted** [GRS12, SR15]. **Results** [AJF10, RKEB13a]. **Resumption** [HGB+16]. **Retention** [LBD+16, PBG+11]. **Retrospective** [WS15]. **Return** [BQF+19, MNS+19]. **Returning** [EMS+14, IMO+14]. **Reveal** [DWE+18, DBHV14, MLBS+13, SSH+11a]. **Revealed** [HSM+10, HCNL10, KHHG13, MCSF14, NW14, PDSP+11, RMM11, ZKH12]. **Reveals** [BQF+19, BBAK19, GRS12, LEM+11, RHKD12, SPM+17, Spi12]. **Review** [Ber13, Cha13, Chi13, Chr14, Fle16, Gid14, HCD+14, LDA+13, Nel14a, Pet15, Pra14, Qui16, Ryp13, Shi13, Smi13, Var13, Yas16, Zyd11]. **Reviewer** [Ano18g, Ano19h]. **Reviews** [Ano10a, Ano10b]. **Revisited** [ETC18]. **Revisiting** [Bea10]. **Rice** [Nel14a]. **Richard** [Yas16]. **Richness** [HCD10]. **Ring** [LS18]. **Rings** [Rey16]. **Rio** [Arc16, BMB+10, HKO+18, HMP18, ZTC12, ZBC+13]. **Riparian** [FQW+10]. **Riprap** [BT16, TT17]. **Riprap-Hardened** [TT17]. **Riprap-Sill-Hardened** [BT16]. **Rise** [PGS13]. **Risk** [AS12, ABM17, BHG+10, EPS+15, FBWZ19, HTH+17, HMSG+11, MCH+13, NPW12, PW10b]. **Risk-Taking** [NPW12]. **Risks** [HLH14]. **River** [AHS11a, ACRA10, ACRAM11, ACDL19, AFHF12, Arc16, AS17, BP16, BP17, BMGL12, BGV+12, BP13, BQF+19, BAHP11, BNS+16, BHD+16, BDB+15, BSCA17, BR11, BWD+17, BHP+15, BKC+19, BGW+17, BDM+10, BCS19, BSD13, BHK+10, BW10, CSED10, CGM15, CTS+15, CTPM13, CTP+12, DCS+17, DHA+17, DF11, DWGF11, DWG14, DEW+14, DWE+18, DHRQ10, DF14, EPS+15, EBF+14, EMS+14, FJP18, FZZ+10, FKH15, FRM18, FPM15, FWBT17, FGW+16, GPBA18, GBW16, GP12, GJC+18, GA17, GBZ14, HGBE16, HGB+16, HLB14, HSS17, HBTT11, HCW14, HN11, HK12, HHES13, HGG+16, HCZ13, HCZG15, HKZ11, HUMG+18, HUSST19, HERC12, JPFB13, JRBC13, JRP12, JAA+13, JZS+19, JSW12, KHW+14, KBC+18, KQ11, KK16, KHHG13, KCZH14, KPZ+12, KKM11, KCMS11, LHS+13, LHHL17, LCO+15, MPHG10, MHN11, MSW+14, MHHH10]. **River** [MSS+11, MPM+14, MKK15, MVP15, MFR15, MWG18, NHM10, NCW+17, OS11, OSA+17, PSH+19, PFG19, PBB+15, PB13, PHM17, PDP12, PPC13, PPMJ14, PSB16, PPD16, PA10, QHS+13, RHEF19, RPC14, RBZ+17, RW11,

RMW16, RDR+10, RRG+17, SYH+15, SK11, SP10, SJ11, SRMB+14, SS13, SE11, SH12, SFH15, SIKR17, SHCB16, SPH+15, SGB13, Sto10, SJFF15, Str10, Str12, SWP+18, TL17, TB14, TW14, TCBI11, TAM15, TBTS12, TL14, TL15, UWL12a, UWL12b, UPT+13, VFFP13, VBJS10, WDR16, WB15a, WAW11, WM12, WSQ+15, WRQH17, WCZ+18, WAKH12, WS15, WRP+12, Yas16, YHWH10, YITI12, ZBW10, ZBHW16, ZKB+15, ACRA10, Ano11a, BBF+18, BK11, BNS+16, BQHR17, BNC+15, BCH+11, BH11, BWD+17, BEMF11, BD15, BLB+13, CKC+12, CCKF11, CRC+16, CFHE11, CYP11, CRH10, CDB10]. **River** [CBAC19, CAB11, DML+10, DM11b, DMHM+18, EFC+11, ETC18, EHR+12, EPC+19, EWSR16, FPD12, FPR+18, FWT+14, GDM+10, GDM+11, HMTC12, HKW+14, HPF+16, HP13, HJM+12, HLR+12, HTR13, HBB17, HSG10, HKKS14, HWD14, HWD+16, HS13, JSW12, JHK+19, KBO+12, KPS+19, LPM+17, MGWP10, MC14, MBH16, MKH13, MOS13, NZF+11, OI16, PZS17, PJ11, PTG+10, PGVG15, PGS13, PGR13, RH14, RDH11, REN17, RT14, SZGS12, SJT+16, SMO+14, SCL+13, SLM10, SFLH14, SZZ10, SPH+15, SWS10, SNI+13, Stu18, TC11, TKC+12, TKC+18, TLM+19, TTM+15, VCP+14, VHJ+15, VFFP13, VHPP19, WL13, WKC18, WBM+17, YCB+11, ZZMC13, ZKH12]. **River-Specific** [GPBA18, HSS17]. **Riverine** [CR10, HBA+15, KM10, LB15, PNM+10, SJ11, SSR+17, TES14]. **Rivers** [BDM+10, DF12, HBC15, HR15, HPHB10, ILH+18, Lov11, MLB18, NAW12, PAB+11, PDM+14, RHKD12, BES15, GSA+19, KMM+11]. **Riverscape** [FBF10, FBS+14, FFYI16, PHHM12]. **RNA** [RBF+11]. **Road** [BP10, ILH+18, MCW+14, TPBB14]. **Roanoke** [ER18, SFH15]. **Robust** [FKH15, OS11, SJFF15]. **Rock** [ER18, HCR14, RHEF19]. **Rockfish** [BS16, Con17, GMP+11, GRS12, JM14, LF15, PKPS11]. **Rocky** [ACWIK13]. **Rods** [Rey16]. **Role** [BHG+10, DWG14, ER18, Esh14, GNMM12, HHES13, MKH10, MHF12, OMA13, PRW+10]. **Roles** [Mic10]. **Rondeau** [GCM12]. **Ross** [Gid14]. **Rotenone** [ACK17, BSHK+11, BZ12]. **Rougheye** [GMP+11]. **Roundtail** [LRH12]. **Route** [HT13]. **Routine** [BNW+12]. **Royale** [MBZ+14, GSJS17]. **Ruin** [ILH+18]. **Rules** [TRW10]. **Run** [BWD+17, FMG+11, HN11, KHW+14, LMD+17, MHHH10, MBL+18, SCC17, SMN+10, VJGV11, WRP+12]. **Runge** [Chr14]. **Runs** [OSA+17, Str12].

S [Nel14a, Var13, BTWB17]. **Sablefish** [CBM15, EBG18]. **Saco** [NCW+17]. **Sacramento** [FSP+17, PBB+15, HSG10, PGVG15]. **Safety** [BTWB17]. **Sagavanirktok** [BDM+10]. **Sagehen** [MDT10]. **Saginaw** [IHTF11]. **Sagittal** [BSSP18]. **Saint** [DCS+17, TL17, UWL12a, UWL12b, UPT+13]. **Sakhalin** [FSRK11]. **Saline** [BRGR10]. **Salinity** [CDB10, FWD10, FDWG13, NDW10, SPCJ11]. **Salmincola** [Mit16, MFR15]. **Salmon** [AHS11a, AKK+19, Ano11a, AHS10, BMF+15, BHLK10, BQF+19, BHC+18, Bea10, BWDM11, BCP+11, BBC+14a, BBC+14b, BNTT17, BNS+16, BHS+17, BS18, BNC+15, BVA11, BGV11, BBM+14, BWD+17,

BRK+18, BDBE11, BA13, BBS12, BEMF11, BCG+12, BLB+13, BFM10, CBVF15, CZK+17, CKS+19, CHMG+18, CJL+14, CHO+15, CEFQ11, CKFQ11, CRC+16, CFHE11, CC16, CTS+15, CHW+13, CTPM13, CTG14, CVB14, CNM+18, CTK+17, CHS+11, DSHG10, DF11, DEW+14, DWE+18, DWE+19, DBC+10, DEP+18, DML+10, DHRQ10, DBS+10, DJ17, DHB15, EMS+14, ETC18, FBWZ19, FJP18, FSJ+11, FWT+14, FBS+14, FRM18, FPM15, FMS10, FMG+11, FH17, GWOD18, GCG+18, GDM+10, GDM+11, GHPS+16, GJC+18, GA17, GSA+19, HSM+10, HMTC12, HGBE16, HBS13, HGB+16, HLB14, HT13, HBB17, HDQ+17, HSS17, HRR+11, HWH10, HSG10, HN11, HKZ11, HMSG+11]. **Salmon** [HWN15, HM17, IMO+14, ILH+18, JMB+13, JBC+12, JJC12, JRP12, JPSM12, JAA+13, JADJ+14, KBC+18, KQ11, KK16, KHHG13, KPZ+12, KPS+19, KRM11, KRM13, LKS+12, LBC10, LHS+13, LRM+10, LHHL17, LUC+15, LPM+17, LBD+16, LB15, MPHG10, MKH10, MM17, MWS10, MSBT10, MSD+19, MHN11, MNS+19, MSS+11, MBH16, MM10, MGK+18, MK16, MGW13, MCT17, MCO+10, MCH+13, MCP+15, MSWD15, MSS+17, NHM10, NMH12, NRZ+13, NBC15, OPHD18, PBG+11, PNM+10, PT10, PJ11, PPF+13, PBB+15, PPH15, PKL+11, PBC12, PM15, PGS13, PGR13, QHS+13, Qui19, RCC+13, RSB14, RPSB14, RRA+15, RSG12, RGM+11, RHR+15, RT14, RKF+13, RBH+12, SJT+16, STS+14, SMO+14, SCC17, SK11, SKP+10, SCL+13, SSH+11a, SHH+19, SBDW11, SE11, SFLH14, SLG+14, SZZ10, SVKK18, SMN+10, SHP+19, Str10, Str12, TRMC15, TM19]. **Salmon** [TC11, TKC+12, TES14, TKC+18, TW14, TLM+19, TTW+11, TTM+15, VJGV11, VBJS10, VSC15, WHF+12, WNCF10, WM12, WCZT11, WZCT12, WCYH18, WAD+17, Wei10, WHP14, WOM14, WBD14, WHC+10, WRP+12, WTB10, Yas16, ZSVK13, ZKB+15, ZKH12, ZZD10, vZNW12, VBJS10, WAD+17]. **Salmon-Derived** [WM12]. **Salmonid** [AGJ11, CM11b, Dud19, EGAW12, GBB+14, HWN15, JKP10, LMPvdH18, MYS+11, MC14, MLS+13, PT10, RHW15, RDR+10, SMY11, SDOK19, TNOU11, TD13]. **Salmonids** [ARL+12, ACWIK13, CN11, DBB+12, EHR+12, EPT+16, Fre19, HOGO10, HJM+12, HGS+16, KST+12, LRH12, MGWP10, MFR15, RSL11, SZGS12, SHM+12, SHC+16, SHCB16, SGK16, TBL+17, UNTA10, vZNW12]. **Salmonine** [TJB+14]. **Salmonines** [BB10a]. **Salt** [JPRS10, RC16, QHS+13]. **Salt-Marsh** [JPRS10, RC16]. **Salvelinus** [DPS14, SDK+10]. **Sam** [Pet15]. **Sample** [CGA13, DJ17, GDWD10, Hoe17, JPRS10, SC13, ZC13]. **Sampled** [WBWSK12]. **Samples** [Goo19, OPS+14]. **Sampling** [BN16, BR14, BSC+16, CGL+11, CBSB15, FWSW+15, GBF12, HCD10, KCZH14, MAN+12, Nel14b, Poe14, PNMH+12, PDM+14, RC16, SIKR17]. **San** [FSP+17, KR18, PBB+15, RKEB13a, RKEB13b, ARL+12, BSSM12, BBF+18, BRS+12, BSC+16, CGM15, DF14, GP12, LHHL17, NLF13, NR16, PFG19, SBC+16, SMH+11]. **Sand** [FPD12, MLB18, PPF+16, PKP+17, RMC+17, Yas16]. **Sand-Bed** [MLB18]. **Sandbanks** [RW11]. **Sands** [SPCJ11]. **Sandy** [TT17]. **Santa** [LSSYL10]. **sapidus** [DDMR10, DK18]. **SAR** [BDM+10]. **Saskatchewan** [VCP+14].

Satilla [FGW+16]. **Saugers** [Whi12]. **Saugeye** [ZLHS10]. **Savannah** [BP16, BP17, VHPP19]. **Scale** [BR11, CBVF15, CM11b, DK18, DW16, DA16, EPR+18, HGBE16, HCW14, HBA+15, HMP18, JJC12, JCK+12, MSB+18, MFH13, PE14, PS14, PRK+16, RA10, SLG+14, TPBB14, TL14, WDDS13, WAKH12]. **Scale-Dependent** [DW16]. **Scaled** [KP14]. **Scales** [BHLK10, BSM13, BSR12, FQW+10, KMKS13, MBH16, MM10, PPF+16]. **Scan** [FDSB18]. **Scaphirhynchus** [HGG+16]. **Scenarios** [FJJ+12, SWS10]. **School** [SCF16]. **Science** [HNRB19, Jac18, Zyd11]. **Scientific** [Yas16, LDA+13]. **Scientists** [LS10a]. **Screen** [HTH+17, MGP11, YSC10]. **Screened** [SO12]. **Screening** [CCL+19, HLH14]. **Sculpin** [WCN+19]. **Sculpins** [WBD17]. **sdY** [CHO+15]. **Sea** [BMM10, CHB+12, DJ17, Esh14, HCZ13, HBA+15, JZBP16, KST+12, MJHP18, MJH17, NAW12, Smi13, SJ14, TA12, VJGV11, BCP+11, BBL+12, GRS12, HSM+10, SSH+11a, SS15a, SS18b, Spi12]. **Sea-Run** [VJGV11]. **Seabass** [SDOK11]. **Seabed** [DGMC17]. **Seagrass** [DSBS14, DHB15, FWSW+15]. **Search** [TLM+19]. **Seascape** [Sec19]. **Season** [BP13, PF11a, WLLCF16]. **Seasonal** [BHLK10, BAHP11, CHPG12, CAB11, DW16, FWD10, FDWG13, FZZ+10, FFYI16, GBW16, GZB12, HN13, LAR16, LB15, MP10, MBH12, MVP15, PMF+10, QHS+13, RSL11, RL19, SCW+13, TCBI11, TTW+11, WSK11]. **Seasonality** [HPG10, SCB15]. **Seasonally** [AHS+11b, FH17, SB12a, TAM15]. **Seatrout** [AAD14, DLHF16, RPVS15]. **Seattle** [Yas16]. **Seaward** [HT13]. **Seawater** [CHW+13, MCC+12, MGW13, ZZD10]. **Seber** [CBSB15]. **second** [Shi13]. **Secor** [Qui16]. **Section** [DKS18, SM13b, TNOU11]. **Sections** [GBW16]. **Sedation** [TBGM12]. **Sedative** [BTWB17]. **Sedatives** [TBC+13]. **Sediment** [BB15, MKH10]. **Seeking** [BNS+14]. **Segment** [ASP+18, BYM19, MBL+18]. **Segments** [DM11a, HK12, KLR+15]. **Segregation** [BGOQ13, DCBKR14, MCD17, WCQD18]. **Seine** [WF11]. **Seining** [MLB18]. **Seismic** [GIW+13]. **Seitz** [Chi13]. **Selected** [BNW+12, FA10]. **Selecting** [Goo19]. **Selection** [AS12, AHS11a, AIC13, BCM+19, BB10b, DWG14, DCJ+13, DML+10, EWW13, GPBA18, HKKS14, KQ11, KBO+12, MGP11, MAH+12, RB12, TRW10, WCZT11]. **Selective** [BNTT17, CFHE11, GCG+18, KK16, SAF+19, TB14]. **Selectivity** [CSDW10, MSH+14, PGR13, TP11, WDWC10]. **seleniris** [SPM+17]. **Selenium** [HNV+18]. **Self** [MNM+17]. **Self-Sustaining** [MNM+17]. **Semi** [BJA+13]. **Semi-Intensive** [BJA+13]. **Semichronic** [KH13]. **Sensing** [WRP+12]. **Sensitive** [EB16, NAW12]. **Sensitivity** [CJGH13, SH10, TNS+14]. **Sensor** [KM10]. **Sensory** [ABM17]. **Sentinel** [DCM10]. **Separate** [HLK11]. **Separation** [PL13, RB18]. **Septicemia** [EFC+11]. **Sequence** [Whi12]. **Sequences** [HOWS10]. **Sequencing** [LFB+15]. **Serendipitous** [CYP11]. **Series** [HPG10, WMV+16]. **Service** [Yas16]. **Several** [BS15]. **Severity** [Mic10]. **Sex** [BS16, BMR+12, CHO+15,

CPS+15, LSSYL10, MSD18, MJGV14, MSH+14, SCW+13, YSW+14]. **Sex-Biased** [MJGV14]. **Sex-Determining** [CHO+15]. **Sex-Specific** [BMR+12, MSH+14]. **Sexes** [SB12a]. **Sexual** [DCBKR14, PM14, SWC13]. **Shad** [CTP+12, CEM+19, DMCO11, DMHO12, FBJR11, GBZ14, HTR13, HBB17, HHES13, HMO14, Mic10, MR11, PNMH+12, RH14, SYH+15, SH12, YITI12]. **Shallow** [CHT13, LBBW17, SJT+16, WB13a]. **Shallow-Water** [CHT13]. **Shape** [MVK12, RMMGPB16]. **Shapes** [PNM+10]. **Shaping** [CKM+11]. **Shared** [JBV13]. **Shark** [GN13, NG13, NAWM14]. **Sharks** [CTG14, CAB11, GGP+15, Pra14, Shi13, WAFL10]. **shasta** [CRC+16]. **Sheep** [BCF+11]. **Sheephead** [LSSYL10]. **Sheepshead** [RCM+19]. **Shelf** [MAS10, PDH+18]. **Shenandoah** [EWSR16]. **Shift** [PB16]. **Shifting** [OGM+15]. **Shifts** [BCM+19, CS16, DBS+10, HSSS16, KGC+12, LCO+15, MD11, SRP+18, SMH+11]. **Shiner** [SB12b]. **Shoal** [DSBS14, RMC+17, RMW16]. **Shoal-** [DSBS14]. **Shore** [CHPG12, TLKT17, WQD14]. **Shore-Spawning** [WQD14]. **Shoreline** [BT16, DSBS14, WBMG10]. **Shoreline-Associated** [DSBS14]. **Shorelines** [TT17]. **Short** [AGH18, CHB+12, DEP+18, FWB+15, FH12, HKO+18, MBP+11, MGW13]. **Short-Duration** [MGW13]. **Short-Lived** [HKO+18]. **Short-Term** [AGH18, CHB+12, FWB+15, FH12, MBP+11, DEP+18]. **Shortjaw** [BHG+10]. **Shortnose** [BP17, FZZ+10, JPFB13, JZS+19, KDS18, PSH+19, PF11b, PB13, UWL12a, UWL12b, UPT+13, VHPP19, WS15, WZK+15]. **Should** [ARC+13, Hoe17, PWP13]. **Shovelnose** [PTG+10, SDW+17a]. **Shows** [CHO+15]. **Shrimp** [RW11]. **Shubenacadie** [CDB10, DMHM+18]. **Shutdowns** [EWSR16]. **Siberian** [BHC+13, CJM+15]. **Sibling** [RB18]. **Sibship** [WCN+19]. **Sibship-based** [WCN+19]. **Sicklefin** [FK18]. **Side** [FDSB18, MC14, RBZ+17, SFF+10, WSQ+15]. **Side-Channel** [WSQ+15]. **Side-Entrance** [SFF+10]. **Side-Scan** [FDSB18]. **Signatures** [ASJ15, BFK15]. **Significance** [AMM+16]. **Significant** [BNTT17, PRW+10]. **Sill** [BT16]. **Silver** [EWSR16, GGC17, HGSG17, LLWW19, SPC+18, SWP+18, ZRM+16]. **Silverside** [BSSM12]. **Silvery** [Arc16, BMB+10, HKO+18]. **Similar** [BNW+12, KBG+18]. **Similarity** [HCD10]. **Simple** [ZM10]. **Simulated** [BRGR10, BDBE11, BCG+12, BAZ12, LSV+13, RCC+13]. **Simulating** [HR15, WR14]. **Simulation** [GKBG12, RJH12, THGA15]. **Simulations** [CM10, LV14, MCH+13]. **Sinauer** [HCD+14]. **since** [BBS12]. **sinensis** [FCG+17]. **Single** [BDBE11, CHS+11, EBF+14, GMP+11, HSM+10, HKR18, HRG12, LFB+15, MSW+10, NB13, PF11a, STS+14, SSH+11a, AHS11a, CVL+19, HN11]. **Single-** [PF11a]. **Single-Nucleotide** [CHS+11, EBF+14, GMP+11, HSM+10, LFB+15, MSW+10, STS+14, SSH+11a, AHS11a, CVL+19, HN11]. **Single-Pass** [HKR18]. **Single-Suture** [BDBE11]. **Siscowet** [AHS+11b, GSR+11, SJMG14]. **Site**

[DPB13, DML+10, HCD10, TLKT17, TNS+14, WLW16, YYA+16]. **Site-to-Site** [HCD10]. **Situ** [DMR+10, TM19]. **Situations** [HGP+17]. **Six** [PKPS11]. **Sixgill** [WAFL10]. **Size** [AGH18, ARC+11, BAHP11, Bea10, BBC+14b, BNTT17, BBL+12, CS16, CEFQ11, CFHE11, CC16, CTPM13, CPS+15, EPW15, FH12, GCG+18, GDG+15, GGC17, Goo15, Goo19, HBS13, Hoe17, HMSG+11, IBH12, JLV+10, KM14, LJHL10, MBPA13, Mic10, MBL+18, MSP12, MSH+14, OWS16, OWN11, OWP13, PW10b, PKL+11, PB13, QSVD11, QHS+13, RZW+12, RMC+17, SJT+16, SMO+14, SCC17, SAF+19, SK11, SW11, SAW+17, TRLG13, TB14, TM19, TA12, UWL12a, VSBC13, WMS15, WBD14, ZC13]. **Size-** [MSH+14]. **Size-Class** [MBPA13]. **Size-Selective** [BNTT17, CFHE11, GCG+18, SAF+19, TB14]. **Sized** [BDS10, MHE12]. **Sizes** [BGB+16, CGA13]. **Skagit** [TB14, ZKB+15]. **Skates** [MAS10]. **Skeena** [PGS13]. **Skeins** [AGKH17]. **Skill** [DBC+10]. **Skills** [SCF16]. **Skin** [MHPB14]. **Skip** [JPG+18]. **Skipped** [SJMG14, TBTS12]. **Slimy** [WCN+19]. **Small** [ACMM+15, AUDL18, AKK+19, BRA14, BAZ12, Cla16, EB16, FMJ11, HW14, HCZG15, JPRS10, KHF+18, MKH10, MBPA13, PCC+13, SRMB+14, SBW14, SAH+14, THNG14, VWS13, vVO10]. **Small-Bodied** [AUDL18, Cla16, HW14, SRMB+14]. **Small-Stream** [HCZG15]. **Smallmouth** [BB10b, CSDW10, EFC+11, ETC18, HPHB10, KGC+12, LV14, LS10b, RO16, WCZT11, WZCT12]. **Smallscale** [DG14]. **Smelt** [BSSM12, KR18, LMPvdH18, LFB+15, NLF13, NR16, OTR+14, PMN19, RKEB13a, RKEB13b, SBC+16, SPR+16, YSC10]. **Smith** [HGBE16]. **Smoking** [TLM+19]. **Smolt** [AHS10, BSC+10, BHS+17, CHMG+18, CT12, HGB+16, HDQ+17, SLG+14, SHP+19]. **Smolt-to-Adult** [BHS+17]. **Smoltification** [HSM12]. **Smolting** [LBC10, TB16]. **Smolts** [CNM+18, HSS17, HKZ11, MBT10, SZZ10, TRMC15, TLM+19, ZZD10]. **Smoothhound** [GGP+15]. **Snake** [KCMS11, TKC+12, WDR16, Ano11a, BWD+17, CKC+12, CBAC19, DWG14, ETC18, GDM+10, GDM+11, HMTC12, HCW14, KPS+19, PJ11, TC11, TLM+19, TTM+15, WAW11, WM12]. **Snakehead** [LN18]. **Snakeheads** [OI16]. **Snapper** [BCMPDSZ10, DSB+18, FWSW+15, JPHK10, JPLS13, MBPP18, MS12, PS14, PDH+18, SAW+17, SCB15, TS13]. **Snook** [DG14, RNG+13, TBTS12, WBMG10, YYA+16]. **Snorkeling** [ELC13]. **SNP** [CVL+19, HN11, DPS14]. **SNPs** [AHS11a]. **Social** [SAF+19, vZNW12]. **Society** [Ano13b, Ano14b, Ano16, Ano17b, Ano19i, Chi13, Chr14, LDA+13, Nel14a, Ryp13, Zyd11, SRMB+15]. **Sockeye** [AHS11a, BQF+19, BHC+18, BCP+11, BBC+14a, BBC+14b, BNS+16, CZK+17, CKS+19, CHW+13, CHS+11, DEP+18, DHRQ10, FH17, HSM+10, HGB+16, HDQ+17, KPS+19, MPHG10, MKH10, MNS+19, MSS+11, PNM+10, PGR13, RHR+15, SSH+11a, SHP+19, TW14, TLM+19, TTM+15, WHP14, Yas16]. **Software** [MCW+14]. **Somatic** [MNB18]. **Some** [JPH17]. **Sonar** [BFM10, FDSB18, GBB+14, MJHP18, MBBM10, OSA+17]. **Sonic** [SNI+13]. **Sonic-Tagged** [SNI+13]. **Sound**

[MVP15, CEFQ11, DBS+10, GCG+18, RGM+11, RKF+13, WAFL10]. **Source** [BLB+13]. **Sources** [AJF13a, FSC+13, LLWW19]. **South** [CTP+12, MVP15, NRZ+13, TRHHOGSJ14, WBD14, AAD14, CEM+19, LBBW17, MSK15, PGW+11]. **South-Central** [NRZ+13]. **Southeast** [DSHG10, EBG18, GSA+19]. **Southeastern** [FRBA13, Ada18, ABS+11, AMM+16, DH11, EPR+18, KSSK+17, LAR16, PPF+16, PKP+17, RSVAB19, SDW15, ZHWR11]. **Southern** [AKM12, AGKW12, FDWG13, HL10, MBL+18, NW14, PF11b, RG16, TVL+12, VJGV11, WCD+11, BHP+15, BCMPDSZ10, CABNQ+13, CML19, FK18, FKF+19a, FKF+19b, GSR+11, Han18, HMSG+11, KP14, MLC13, RMMGPB16, RJ11, SJMG14, TNS+14, WK13]. **Southern-Strain** [WCD+11]. **Southernmost** [SDK+10]. **Southwest** [HKO+18, OWP+17, PCFH17, SGB13]. **Southwestern** [BJR14, MD11, WDW11]. **Space** [WB15b]. **Spanning** [Mic10]. **Spartina** [BT16]. **Spatial** [BHLK10, BR11, BGOQ13, CTK+17, DHRQ10, DCM10, EPT+16, FSJ+11, FQW+10, FM17, HGBE16, HCNL10, HMP18, IWB+13, KMKS13, KHK+15, MCD17, MSB+18, MAH+12, MBH16, MVP15, PZS17, PPF+16, PSH+19, PGVG15, RHW15, RL19, SJT+16, SMO+14, SMJ14, SA14, SS18b, SWC13, SBMH12, SMMK12, TL14, WR14, WBD17, YJW11]. **Spatially** [Dud19, HBTT11, RBZ+17, VB14]. **Spatiotemporal** [HGSG17, RO16, WB13b, PHG+16]. **Spawn** [SVKK18]. **Spawner** [CCH15, Lis14, Lis15, RSB14]. **Spawners** [HSF12]. **Spawning** [BGV+12, BP13, BHC+18, BMM10, BGW+17, BD15, BGOQ13, CGB19, CM11a, Con17, CTK+17, DML+10, EBF+14, FPR+18, FPM15, FS16, GBZ14, GA10, HKW+14, HDBS14, HCW14, HSA+16, HBA+15, HUSST19, HM17, JPG+18, JZS+19, JSW+15, KHW+14, MPHG10, MKH10, MM17, MSW+14, MHHH10, MJS+19, MSS+11, MPM+14, MBL+18, MR11, OSA+17, PDP12, PPP+13, PGVG15, RB12, RCC+13, RHW15, RRG+17, RO16, SNC+10, SKP+10, SJMG14, SHR+12, SH12, SFH15, SBMH12, SFF14, SJFF15, SS15c, SJ14, TL17, TW14, TBTS12, VHPP19, WZC+14, WLLCF16, WQD14, WCQD18, WZK+15, WRP+12, YITI12, YYA+16, ZKH12]. **Spawning-Phase** [BMM10]. **Special** [DKS18, LMPvdH18, SM13b, TNOU11]. **Specialization** [JK17]. **Species** [ACDL19, AFHF12, BBC14c, BCF+13, CT16, CBW+16, DPB13, DW13, DPS14, DYWY17, DCM10, FBWZ19, FRA13, GS16, GBB+14, HARL18, HRHS16, HCD10, HWN15, LSD+14, MHF12, MCD17, MSW+10, MDT10, Mit16, MWG18, MBBM10, NDW10, PPF+16, PFG19, PL13, PVJH15, PKPS11, SF17, SR15, Sto10, TD13, WDDS13, WB15a, ZSVK13]. **Species-Specific** [Sto10]. **Specific** [BBC+14a, BBC+14b, BA13, BMR+12, DSB+18, GPBA18, HMTC12, HSS17, HEC+15, MSH+14, RL14, RAB+18, Sto10, TP11, TTW+11]. **Speckled** [ZHWR11]. **Spectra** [BBL+12]. **Sperm** [BMTP13]. **Spheres** [Rey16]. **Spill** [SFB16]. **Spiny** [DCBKR14, DG19, FRRCGA+15]. **SPO-125** [Yas16]. **Sport** [HARL18, KSB16, LBBW17, PGW+11]. **Spot** [FBH+13, TLKT17]. **Spotted**

[AAD14, BSHK+11, BSSP18, DKD+15, DLHF16, FS16, GCM12, KDS18, LS18, LCHB+18, RPVS15]. **spp** [JSW12, RMC+17]. **spp.** [SKBS18]. **Spring** [Arc16, BHS+17, DML+10, FJP18, GCM12, HMTC12, HM17, JRP12, LBC10, LHS+13, MGK+18, PPMJ14, PPW+14, PPJ15, SKP+10, TKC+12]. **Springer** [Pet15]. **Springfish** [DM11b]. **Springs** [SFLH14]. **sSOD** [HRR+11]. **sSOD-1*** [HRR+11]. **St** [EFC+11, Han18, MLC13, ZZMC13]. **St.** [FPR+18, MHHH10, TAM15]. **Stability** [BEWM10, CJG13, PPD16]. **Stabilization** [RBZ+17]. **Stable** [BL11, CHLN15, OPS+14, QSJ12, RMM11, VSBC13, WB13b]. **Stage** [BB15, CDB10, GPBA18, GA17, HMTC12, KRM13, LV14, PSM12, PFG19, SJGL16, SBC+16, TD13, TB16]. **Stage-Structured** [LV14]. **Stages** [CSED10, CSD+14, HDQ+17, PKL+11, TA13, TB14]. **Staghorn** [WBD17]. **Standardization** [YJW11]. **Standardized** [CEM+19, PSM12, Poe14]. **Starvation** [FBJR11]. **State** [BBG+18, EPR+18, SHM+12, TBL+17, BRS+12]. **State-** [EPR+18]. **State-Dependent** [SHM+12]. **State-Straying** [BBG+18]. **States** [Ada18, ABS+11, ADS+11, DW15, FA10, HLH14, HTH+17, MAS10, PPF+16, PKP+17, ZHWR11]. **Static** [RB13, RBF14]. **Statistical** [SMN+10]. **Statistically** [CYW+19]. **Status** [ACRA10, BP17, BLCB13, BS16, DKS18, FBB+13, FGW+16, HGG+16, MBEvdB+10, MGK+18, MDD+16, PSB16, SCW+13, SPH19, Zyd11]. **Steamboat** [GWG+19]. **Steelhead** [AMBM12, BSC+10, BGV11, BCF+11, BHP+15, BCM+19, BBG+18, BGOQ13, CKC+12, CCH15, CJL+14, CBSB15, CBAC19, CWP+19, DBHV14, EHC+14, EPC+19, GGHS+14, GNMM12, HMTC12, HRB+16, HCW14, HWD14, HWD+16, HER+11, HERC12, JPG+18, JSW+15, KH13, LMD+17, Lis14, Lis15, MGP11, MSH17, MBT10, MK15, PM14, PHM17, QSVD11, QSJ12, RL19, SSH11b, SO12, TVL+12, TB14, TB16, VHJ+15, WCMP13, WAKH12]. **Steelhead/Rainbow** [RL19]. **Stem** [HPHB10]. **Stephen** [Gid14]. **Stephenson** [Chr14]. **Stickleback** [HBHS15, MBG10]. **Stingray** [HL10]. **Stock** [AHS11a, ARC+11, ACB+14, BBGB15, BBC+14a, BBC+14b, CKC+12, CTS+15, EMS+14, FSN+13, HP13, HS13, JAA+13, KHD+14, LSJN13, MM10, NMH12, PDSP+11, RL14, RMMGPB16, RGM+11, RT14, RJ11, SJT+16, SMO+14, SM13a, SJMG14, TTW+11, VFB+16, WBR11, WMW+12, WMG+14]. **Stock-Recruitment** [SM13a]. **Stock-Specific** [BBC+14a, BBC+14b, TTW+11]. **Stocked** [CML19, FKF+19a, FKF+19b, HT13, KM14, KMS+18, NDC+14, WK13]. **Stocking** [AGKW12, BMF+15, BJA+13, CPS+15, CTP+12, MHE12, MMY12, PGW+11]. **Stocks** [AGH18, AHS10, ACB+14, CKC+12, DMCO11, GDPW10, HSM+10, RNG+13, SZZ10, VHJ+15]. **Stomach** [BN16, BL11]. **Stone** [CGDL18, RMC+17, RCM+19]. **Stonecats** [PPD16]. **Stored** [OPS+14]. **Strain** [DF12, WCD+11]. **Strains** [BAKT12, HP14, MFAS+12]. **Strait** [HCR14, MBT10, NBC15]. **Strategies** [BSS18, HS13, JWHJ13, Str12, ZKB+15]. **Strategy** [Bel12, HLK11, NPW12, NAG13]. **Straying** [BWD+17, BBG+18, HSE+12].

Stream
[ACRA10, ACRAM11, AKK+19, BS13, BWHF17, CHR+17, Cla16, CVB14, DWG14, DW15, ERL15, FQW+10, FSFS17, HJS+16, HN13, HCZG15, HUSST19, HLK11, HCNL10, JADJ+14, KLR+15, KPZ+12, LBC10, MRPW19, MCD17, MWS10, MSD+19, MJHP18, MP10, MBM10, MLS+13, MKHC17, MKA10, MWT14, NJ12, OSA+17, PPF+16, PM14, PF11a, PCFH17, PKL+11, PPC13, PPMJ14, PPP+13, PHFN17, RSL11, SKP+10, STZ13, UNTA10, UACS+19, WDR16, WNCF10, WZCT12, WCMP13, WHC+10, ZSVK13]. **Stream-Dwelling** [BS13, STZ13, WNCF10]. **Stream-Maturing** [PM14]. **Stream-Rearing** [PPP+13]. **Stream-Type** [CVB14, LBC10]. **Streamflow** [FBF10, GNMM12]. **Streams** [ACRA10, ACRAM11, AGJ11, BEWM10, BSGB17, BGLP19, BP10, BZ12, BAZ12, CRH10, DF11, DMRK14, DH11, EBMV10, FKF+19a, FKF+19b, FRM18, FHCSN12, GNMM12, HEW12, HCD10, KMKS13, KMS+18, KRRW18, KP14, MKH10, MSK15, MBM10, MFR15, MBG+11, OPHD18, PTWK11, PSGB13, RMM11, SPH+15, SAH+14, THNG14, TNS+14, WCZT11, WK13, WTB10]. **Streamside** [WHC+10]. **Strength** [CCB16, SWP+18]. **Stress** [ARB+18, CKS+19, CM10, DMRK14, FBJR11, KH13, RCC+13, TASC17, YSC10]. **Stressors** [BNS+14]. **Stretch** [SGB13]. **Striped**
[CDB10, DF12, DA12, DMHM+18, HHJH17, KHD+14, LSJN13, Nel14a, NLF13, PMF+10, SB12b, SH12, SMH+11, TRW10, TBGM12, WSK11]. **Stronach** [BHK+10]. **Strontium** [HLR+12, PBW16, SSH11b]. **Structural** [KVA+19]. **Structure**
[AKM12, AGKW12, ADS+11, BWDM11, BRA14, BR11, BKC+19, BJC12, CHPG12, CS16, CC16, CTS+15, CBM+13, FSN+13, GGHS+14, GHPS+16, HCNL10, KSF13, KHK+15, KHHG13, KP14, KCMS11, LEM+11, LCHB+18, MSK15, MSS+11, MBG+11, PGJ11, PTWK11, PB13, RB12, STS+14, SMM13, SB12b, STK12, SAW+17, SS15c, VHJ+15, VIW+17, WAW11, WSQ+15, WAKH12, WKC18, WLW16, WMG+14]. **Structured** [BCH+11, BBS12, LV14, SR10, SS11]. **Structures** [JMM+11, KDS18, MCP+15, SH12]. **Structuring** [NJ12]. **Studies** [BSC+16, ELC13, HEC+15, MBBM10, MSH+14, VSC15]. **Study** [BEMF11, DKS18, DCJ+13, HRG12, KCM14, MRPW19, RJH12, TF13, VB14, ZC13]. **Sturgeon** [ASP+18, BP16, BP17, BMGL12, BGV+12, BLG+13, BAHP11, BMC+13, BH11, BHC+13, CJM+15, CSED10, CSD+14, DCS+17, DG13, EBF+14, FCG+17, FZZ+10, FPR+18, FBP11, FSC+13, FP19, FGW+16, HKW+14, HPF+16, HKKS14, HSE+12, JLV+10, JPFB13, JCS14, JZS+19, JHK+19, KHW+14, KBO+12, LEM+11, MBPA13, MNM+17, MNB18, MBL+18, MSP12, NCW+17, PSH+19, PF11b, PB13, PHG+16, PTG+10, PGVG15, RDH11, REN17, SMM13, SP10, SH10, SDW+17a, SWH+17, SCW+13, SCF16, SFH15, SIKR17, TL17, TCBI11, UWL12a, UWL12b, UPT+13, VCP+14, VHPP19, WS15, WZK+15, WMW+12]. **Sturgeons** [HGG+16]. **Sub** [WRP+12]. **Sub-Arctic** [WRP+12]. **Subadult** [BNS+14, SIKR17]. **Subarctic** [DGMC17]. **Subdivision** [Spi12].

Subestuary [WSK11]. **Subpopulations** [WLLCF16]. **Subsequent** [AIC13]. **Subsidies** [CBM15, Lev18]. **Substrate** [FPR+18, NAW12]. **Subtropical** [BR14, NW14, PSGB13]. **Subyearling** [FMS10, GCG+18, HBB17, RT14, SCL+13, TBL+17, TES14]. **Subyearlings** [Ano11a, CTPM13, TC11]. **Success** [ABM17, BCF+11, BMB+10, FPM15, GBF12, HM17, JCS14, KMS+18, KKM11, LSPB11, LCO+15, MWG18, OSDT18, PGW+11, RHW15, RAB+18, RHR+15, SKP+10, TM19]. **Successful** [EBF+14]. **Sucker** [CGB19, DCM10, ESD+17, KWCI10, PFG19, SBC17, WvPC12]. **Suckers** [CTN11, DSAM12, FWBT17, ZBW10]. **Suggest** [LV14, RA10]. **Suitability** [ACWIK13, DF12, DA16, FJP18, FKH15, Lov11, MKA10, TFM+18]. **Suitable** [BBM+14, JZS+19, TRW10]. **Sulfated** [YSW+14]. **Summer** [BL11, CMM+17, CM10, CKFQ11, DG13, GCM12, HSM+10, HMTC12, MBM10, RJWK10, RJH12, TRW10, UACS+19, WAD+17, BFH14]. **Summer-Resident** [CMM+17]. **Sunderland** [HCD+14]. **Sunfish** [THNG14]. **Superimposition** [Dud19]. **Superior** [AHS+11b, BHG+10, GSR+11, GSJS17, GS13, MBZ+14, RMM11, SJMG14]. **Supersaturation** [SDOK11]. **Supplementation** [BCF+11, PT10]. **Supplemented** [DML+10]. **Supply** [SHCB16]. **Support** [MNM+17, TH15]. **Supports** [BWHF17, HB18, HUSST19]. **Surf** [SGP16]. **Surface** [RGM+11]. **Surgeon** [DBC+10]. **Surgical** [BHC+13, DBB+12, SHH+19]. **Surgically** [DBC+10, FMS10, KHF+18, RPVS15, SNP+10, TPA14]. **Surrogate** [AUDL18]. **Surrogates** [SF17]. **Survey** [AJFO10, AJF10, AJF13a, AJF13b, BLCB13, DKL+17, GSD+12, HLB+16, KTE+14, MAS10, Nel14b, RL14, TF13, WF11]. **Surveyed** [WTB10]. **Surveying** [FDSB18]. **Surveys** [BH11, DCBKR14, GKG+19, HCD10, MK16, RSB14, RG15, SC13]. **Survival** [ACK17, AHS10, BB15, BJA+13, BMC+13, BHS+17, Bel12, BRGR10, CHR+17, CHW+13, CBSB15, CT12, CDB10, CNM+18, CSD+14, DDMR10, DMW+19, DMRK14, DM11b, EHC+14, EWSR16, FBF10, FBWZ19, FWB+15, FKF+19b, FMS10, GDM+10, GA17, GSA+19, GNMM12, HMTC12, HNK+12, HJM+12, HRR+11, HAR18, HKZ11, HLK11, HER+11, IBH12, JRP12, JSW+15, KGW14, KM14, KMS+18, KHF+18, KKM11, KYK17, KRM11, LSV+13, MYS+11, MCC+12, MHE12, Mic10, MBT10, NBC15, OPHD18, PBG+11, PKL+11, PBC12, PHFN17, RH14, RPSB14, RB13, RBF14, RSG12, RBH+12, RLL+19, RAR+16, SDW+17a, SW11, SWB+16, SAS17, SS15b, SVKK18, SNI+13, SHP+19, SDW17b, SJ14, TM19, WEW12, WDW11, WAD+17, WCD+11, ZBW10, ZKB+15]. **Susceptibility** [HERC12, MBPA13]. **Susitna** [FRM18]. **Suspended** [BB15]. **Sustainability** [MCO+10]. **Sustainable** [Smi13]. **Sustaining** [MNM+17]. **Sutton** [Ryp13]. **Suture** [BHC+13, BDBE11, DBC+10, IBH12, PBG+11]. **Sutures** [DBB+12, JLA17]. **Suturing** [DBB+12]. **Suwannee** [PA10]. **Swimming** [BMB+10, CJM+15, Cla16, CHW+13, DMR+10, FCG+17, FMJ11, JBC+12, KCJ+15, LHHL17, MGW13, PPF+13, RSG12, RGP17, SDW+17a].

Swordfish [LKP+13]. **Sympatric** [BGOQ13, CHT13, CPP+14, DW16, RB18, SE11]. **Symposium** [Chi13, Chr14, Nel14a]. **Synchronous** [ZKH12]. **Synchrony** [CM11b, JRBC13, MS13]. **Syndromes** [NPW12]. **Synthesis** [CAB11, HP13]. **Synthetic** [TFM+18, BDM+10]. **System** [ARB+18, BR11, DKL+17, DHRQ10, FPR+18, FPM15, GWB+15, GBW16, HKW+14, HLR+12, KM10, MPM+14, MAN+12, OSDT18, Pet15, Rey16, SZGS12, WS15, Yas16, AFHF12, WZK+15]. **Systematically** [BSM13]. **Systems** [KM10, LRH12, RPC14, SDW15]. **Systemwide** [EHR+12].

T [Gid14, LDA+13, Ryp13]. **Tactics** [CVB14]. **Tadpole** [ACK17]. **Tadpoles** [BSHK+11]. **Tag** [DM11b, DJ17, FMS10, HEC+15, HRG12, IBH12, MBP+11, MGW13, VB14, WvPC12, Wei10]. **Tag-Induced** [MBP+11]. **Tagged** [BDBE11, DEP+18, HJM+12, HLK11, JCK+12, KCM14, KHD+14, MH11, MCC+12, NBC15, REN17, SNI+13, SCL+13]. **Tagging** [AUDL18, AIC13, Chi13, CHW+13, DEP+18, EMS+14, EB16, HSA+16, LEM+11, MSH+14, RMDA11, dHST13]. **Tags** [CHR+17, Cla16, DM11b, EHR+12, EPT+16, HB17, HRG12, JDS15, KHF+18, NB12, SDW+17a, SNP+10, VSC15]. **Tail** [MBBM10]. **Tail-Beat** [MBBM10]. **Tailwater** [IB14, KYK17]. **Tailwaters** [FM17]. **Taimen** [FSRK11]. **Taiwanese** [CYW+19]. **Taken** [AJF13b, BFM10]. **Taking** [NPW12]. **Tale** [RBK+11]. **Tales** [RCD+11]. **Tampa** [Gre12]. **Tandem** [SL16]. **Tapeworm** [CCL+19]. **TaqMan** [BSSM12]. **Targeted** [FWSW+15]. **Tautogs** [MT19]. **Taxonomy** [Pag19]. **Technical** [FHCSN12, Yas16]. **Technique** [DBB+12, MCW+14, RNG+13]. **Techniques** [ESD+17, ELC13, Eva17, FH12, GDWD10, HOGO10, Mat18, Ryp13]. **Technology** [GIW+13, Chi13]. **Telemetry** [BFH14, FBH+13, GZB12, HBB13, MCSF14, PSH+19, TL17, TS13]. **Telemetry-Based** [FBH+13]. **Teleost** [SPH19]. **Teleostei** [HOWS10]. **Teleosts** [PSM12]. **Telephone** [AJFO10]. **Temperate** [BB10b, MFH13, RB12, RW11]. **Temperature** [AAD14, BS18, BCRP13, BMM10, BRK+18, CM10, CDB10, DBC+10, DBHV14, FBJR11, FBWT19, HHJH17, HAR18, HK12, HHES13, HD16, HWHF14, HMP18, KGW14, KWCI10, LJHL10, MRPW19, MT19, MBM10, NB12, PPH15, PHHM12, PPMJ14, PM15, RB13, RBF14, RT14, SW11, TASC17, TVL+12, UK14, VSC15, WMS15, WHP14, YCB+11, YHWH10]. **Temperature-Dependent** [HD16, PPH15, PM15]. **Temperature-Related** [HK12]. **Temperatures** [GDM+10, GDM+11, HP14, KWCI10, MRPW19, MBH12, RJWK10, TNS+14, VJGV11, ZBC+13]. **Temporal** [ACRAM11, BSC+10, BR11, CBM15, CHS+11, DHRQ10, DCM10, EFC+11, EPT+16, FM17, GWG+19, IWB+13, MHF12, OWS16, PZS17, PGVG15, RRG+17, SJT+16, SMJ14, SA14, SWC13, SBMH12, SJFF15, SS15c, SMMK12, VWS13, WMV+16, WR14, WBD17, WBD14]. **Tendency** [CEFQ11]. **Tennessee** [IB14, PSB16]. **Term**

[AGH18, BGB+16, CHB+12, DSM18, FWB+15, FH12, GP12, HSSS16, IHTF11, KM10, KRM13, MBP+11, MLC13, NDC+14, NR16, OGM+15, PPJ15, RA10, SWB+16, SMH+11, VB14, WHSK19, ZBHW16, DEP+18].

Terminal [GGC17]. **Tern** [ARL+12, MGWP10]. **Terns** [SCL+13]. **Tessellated** [KLS17]. **Test** [CJL+14, GS16, JPSM12, WHC+10]. **Testing** [MAN+12]. **Texan** [BKC+19]. **Texas** [BSD13, DSM18, LCHB+18, MBEvdB+10, OWS16, PTWK11, RHKD12, RMW16, VFFP13]. **Their** [AGKW12, BHD+16, BP10, BDM+10, CZK+17, CHLN15, CNM+18, GS13, MOS13, PF11b, Rey16, Shi13, TJB+14, AS12, BNS+16, CKS+19, DW15, MBBM10]. **There** [BNTT17, CTS+15]. **Thermal** [ACWIK13, AMBM12, BHD+16, BHP+15, BCR13, CRC+16, DMRK14, HR15, HP14, HAR18, KH13, MRPW19, MFAS+12, MWSS13, PHHM12, PCC+13, RZW+12, Str10, UK14, ZBC+13]. **Thiamine** [FBB+13]. **third** [Ryp13]. **Threadfin** [PNMH+12]. **Threatened** [BSSM12, BMC+13, CKC+12, DSRA12, DYWY17, GCM12, NDP16]. **Threatens** [Arc16]. **Three** [CT16, Eva17, FMJ11, FWSW+15, HKR18, HP14, HWN15, OWP+17, PCC+13, SF17, SHCB16, PM10]. **Three-Pass** [HKR18]. **Threespine** [HBHS15]. **Thresher** [GN13, NG13]. **Thresholds** [Sto10]. **Throughout** [SWP+18, DW15]. **Throw** [CGL+11]. **Tibet** [LCO+15]. **Tidal** [BSCA17, DK18, DEW+14, DWE+19, JPRS10, Lov11, MBH16, RDR+10, RLL+19, SJT+16, TBTS12, WF11]. **Tides** [PBB+15]. **Tiger** [CABNQ+13, SHC+16, WEW12]. **Tilapia** [HARL18, HAR18, VSBB+14]. **Time** [HJM+12, HPG10, KGC+12, KCS+19, OWP+17, RFM+15, WMV+16, vPWT12]. **Time-Varying** [vPWT12]. **Times** [PHFN17]. **Timing** [BQF+19, BA13, CHMG+18, CC16, CTS+15, CYP11, EMS+14, HN11, JSW+15, LSSYL10, MM17, MSS+11, MDT10, OMA13, PW10a, RBH+12, SHM+12, SNC+10, TRLG13, TL17, UPT+13, VJGV11, WAD+17, WHP14]. **Timings** [SCC17]. **Tissue** [OPS+14, SARC13]. **Tissues** [HNV+18]. **Toad** [BSHK+11]. **Togiak** [CTS+15]. **Tolerance** [AAD14, BCR13, DMW+19, DMRK14, HAR18, KWCI10, KU12, MRPW19, MFAS+12, RZW+12, SPH19, UK14, WCD+11]. **Tolerances** [ZBC+13]. **Too** [WB15b]. **Tool** [BR14, CCL+19, CEM+19, DAA+16, PSB16, SWH+17]. **Top** [MAH+12, SFF+10]. **Top-** [SFF+10]. **Topographic** [WDHW14]. **Total** [CGA13, GvdHBC12, HGP+17, THGA15]. **Total-Body** [GvdHBC12]. **Tournaments** [LSV+13, VWS13]. **Towboat** [KMM+11]. **Towed** [GWG+19]. **Toxicity** [BSHK+11]. **Tracers** [AW19]. **Tracking** [AW19, ELC13]. **Trade** [BGV11, KRRW18, QSVD11]. **Trade-off** [QSVD11]. **Trade-Offs** [BGV11, KRRW18]. **Traditional** [WCN+19]. **Training** [SCF16]. **Trait** [BFH14]. **Traits** [BEMF11, DBHV14, DWN+15, LCO+15, PK11]. **Trajectories** [BCRP13]. **Transactions** [Ano13b, Ano14b, Ano16, Ano17b, Ano19i, SRMB+15]. **Transformation** [BSC+10]. **Transgenerational** [SSH11b]. **Transgenesis** [GWOD18]. **Transgenic** [HKP11, HLH14, PK11]. **Transient** [TAM15]. **Transition**

[CHW+13, KWCI10]. **Translocated** [PRW+10]. **Translocation** [SPH+15, SPCJ11]. **Translocations** [FPM13, GBF12]. **Transmitter** [IBH12, LBD+16, PBG+11]. **Transmitters** [DBC+10, DBB+12, JBC+12, LBD+16, MRB+18, PPF+13, RPVS15, SHH+19, TPA14]. **Transplanted** [WAR12]. **Transponder** [CHR+17, Cla16, DM11b, ELC13, EHR+12, EPT+16, HLK11, SDW+17a]. **Transponders** [HB17, MCC+12]. **Transport** [JPLS13, MKH10]. **Transportation** [BWD+17, PB15]. **Transverse** [BAZ12, DMCO11]. **Trapping** [SFF+10, WBR11]. **Traps** [CGL+11, RC16, RSB14]. **Travel** [HJM+12]. **Trawl** [BMC+13, DKL+17]. **Trawls** [KS11, PNMH+12]. **Treatments** [JADJ+14]. **Trematodes** [PM10]. **Trend** [HKR18]. **Trends** [ACRA10, AGJ11, Arc16, Bea10, CZK+17, DSM18, KQ11, KYK17, LRR+15, MS13, OI16, PM19, RA10, SWB+16, SJFF15]. **Trial** [AUDL18]. **Tributaries** [BBG+18, CGM15, CGB19, IRJ11, LPM+17, MSW+14, OI16, PDM+14, REN17, TF13, WF11]. **Tributary** [BQHR17, CBSB15, DF11, DWG14, FWBT17, HCZ13, HCZG15, HPHB10, KRM11, MM17, RMM11, RAR+16, SPH+15, vVO10]. **Trifluoromethyl** [CHB+12]. **Triggerfish** [HAV+19, KSSK+17, SS11]. **Trinidad** [JM14]. **Trinity** [BSD13, PHM17]. **Trip** [AJF10]. **Trophic** [BK11, BL11, CORM13, DWE+18, FRBA13, FRA13, FKF+19a, HBB17, HB18, KSB16, LBBW17, LB15, MHF12, RCM+19, RMM11, RB18, SRP+18, SHCB16, TRHHOGSJ14, THKG10, WB15b, WHC+10]. **Trophy** [BGB+16]. **Tropical** [HTH+17, PNMH+12]. **Trout** [AHS+11b, ACMM+15, ACDL19, AMM+16, AGKW12, ADS+11, BBGB15, BSGB17, BGLP19, BP13, BBAK19, BB10a, BHD+16, BS13, BAKT12, BRG19, BRGR10, BGOQ13, BMP+17, CKM+11, CR10, CM10, CHT13, CML19, CRH10, DFB15, DW16, DW15, DH11, DZW+12, DWN+15, DMR+10, FWB+15, FKF+19a, FM17, FKF+19b, FFYI16, FH17, GSR+11, GSJS17, GS13, HH11, HNK+12, HBB13, HBS13, HP14, HB18, HNV+18, HK12, HSM12, HS13, HCS+16, HCNL10, HMP18, ILH+18, IBH12, JC16, JLA17, JK17, JJNB17, JMM+11, KLR+15, KHK+15, KBG+18, KMS+18, KWS14, KRRW18, KKM11, KYK17, KCMS11, KRM13, LME16, LRW13, LB15, MCW+14, MGP11, MSWS10, MFAS+12, MWSS13, MSW+10, MPM+14, MWC+13, MHE12, MKHC17, MDT10, Mil19, Mit16, MWKS13, MDD+16, MBZ+14, NB12, NB13, NDP16, OS11, ODG+11, Pag19, PB15]. **Trout** [PRW+10, PGJ11, PT10, PB17, PHHM12, PPC13, PPW+14, PPJ15, PPP+13, Qui19, RB13, RBF14, RMM11, RJWK10, RL19, SPM+17, SK11, SBO12, SLM10, SJMG14, SHR+12, SDW17b, TD13, TPBB14, THKG10, TNS+14, UACS+19, WDDS13, WMS15, WBR11, WDHW14, WKS+19, WK13, WCD+11, WBH10, WAR12, YCB+11, YHWH10, ZTC12, ZBC+13]. **True** [HLK11]. **Tsangpo** [LCO+15]. **Tubes** [BN16]. **Tui** [GLM+15]. **Tuna** [AGH18, Gol18, RBE+10]. **Turbid** [BES15]. **Turbidity** [CSDW10, HBS13, HDF12, KLS17, MSD+19, MWG18, Sto10, YCB+11]. **Turbine** [BSCA17, BDBE11, BCG+12, EWSR16]. **Turnover** [RW11].

Twelve [HNV+18]. **Twenty** [MMY12]. **Twist** [WBW+13]. **Two** [AHS10, BSC+10, CGM15, DSHG10, DM11a, FWD10, FBWZ19, FHCSN12, FBH+13, GKBG12, HBC15, HRB+16, HS13, IRJ11, KBG+18, KWS14, KCZH14, LRH12, LPM+17, MCD17, MSD18, PB15, PPC13, PDM+14, RBH+12, RBK+11, SGP16, SDW15, SSM16, STK12, TBL+17, THGA15, WDDS13, WBH10, YSC10, LRR+15]. **Two-Dimensional** [GKBG12]. **Two-Species** [WDDS13]. **Two-Vector** [YSC10]. **Type** [CVB14, DBC+10, EFC+11, HH11, HKP11, LBC10, PW10b, PNM+10, PK11, RR13]. **Types** [SHM+12, SAF+19].

U.S [KCS+19]. **U.S.** [DF11, FJP18, HAV+19, ILH+18, LKS+12, LAR16, SDW15]. **UK** [Fle16]. **Ultralight** [CCB16]. **Ultraoligotrophic** [JBV13]. **Ultrasonic** [HBB13, IBH12, TL17, TS13]. **Umpqua** [OMA13]. **Uncertainty** [HRG12, PMN19, RJ11]. **Undergoing** [HSSS16]. **Underlying** [BMR+12]. **Understanding** [Goo15]. **Unfished** [HVD+16]. **Unintended** [MK10]. **Unique** [HB18]. **Unit** [HAG13, PRW+10]. **United** [Ada18, ABS+11, DW15, MAS10, PPF+16, PKP+17, ZHWR11, ADS+11, FA10, HLH14, HTH+17]. **Units** [ADS+11]. **University** [Cha13, Gid14, Pra14, Qui16, Smi13, Var13]. **unlike** [HCR14]. **Unmarked** [RGM+11]. **Unobstructed** [RPC14]. **Unregulated** [HK12]. **Unsampled** [WBWSK12]. **Unscreened** [MCH+13]. **Unstratified** [RJWK10]. **Untagged** [SMO+14]. **Unusual** [MPM+14, WMV+16]. **upon** [AS12, HH11, RCC+13]. **Upper** [BCR13, KWCI10, KBC+18, RZW+12, Str10, ZBC+13, ACRA10, BHD+16, CHR+17, DWGF11, EFC+11, EBF+14, EPC+19, FWBT17, JRP12, KMM+11, KR18, KCMS11, MC14, PGJ11, PBM+12, RKEB13a, RKEB13b, SK11, SS13, SLM10, VFFP13, WDR16, ZBW10, ZZMC13]. **Upriver** [DHRQ10, LUC+15]. **Ups** [GS13]. **Upstate** [GBW16]. **Upstream** [GDST16, HSM12, JPSM12, MCW+14, PM14, PPP+13, RO16, WZC+14, WL13]. **Uptake** [TL15]. **Urban** [BMOF16, GWB+15, HSSS16, LLWW19, TBL+17]. **Urge** [SZZ10]. **USA** [BGLP19, BB15, CGM15, EPR+18, FSW10, FP19, HNV+18, HHES13, KTE+14, KSSK+17, KU12, KPZ+12, PAB+11, PSH+19, TT17, UK14, Yas16]. **Usage** [TCBI11]. **Use** [BBZGB15, BAKT12, BDM+10, BSD13, BW10, CGL+11, CHLN15, CBM15, DG13, DWGF11, DWG14, DW16, DMW+19, DCM10, ESD+17, ELC13, FJP18, FFYI16, FWBT17, GvdHBC12, GGC17, GCM12, GKG+19, GZB12, GNMM12, HPF+16, HR15, HJS+16, HNRB19, HKKS14, HK12, HGG+16, HDH16, HPSA16, KST+12, LMD+17, LKP+13, LSD+14, LSSYL10, MM17, MWKS13, MBBM10, PBW16, PMF+10, PHG+16, PTG+10, PAG11, PL13, RA10, RMM11, RDR+10, SHM+12, SMO+14, SR15, SMN+10, SCB15, TD13, TS13, TBC+13, WZCT12, WSQ+15, WZK+15]. **Useable** [HGS+16]. **Used** [HBA+15, LS10a, PCC+13]. **Useful** [EPS+15]. **Using** [AGH18, ACRA10, AW19, ASP+18, Ano11a, BSSM12, BC12, BSS18, BYM19,

BEMF11, CKC+12, CCL+19, CC16, CPP+14, CHS+11, DFB15, DMR+10, FDWG13, GCM12, GDWD10, Gre12, GA10, HLH14, HSA+16, HOWS10, HPHB10, IWB+13, JJC12, LFB+15, MAS10, MJHP18, MLS+13, MM10, MLBS+13, OSS+17, PSM12, PM13, PPH15, PGWS15, PCT+12, PMN19, PVJH15, PHFN17, RPSB14, RMMGPB16, SR10, SDBB12, SBC+16, STZ13, SSH11b, SL16, SJFF15, TPLA16, TC11, VIW+17, VBJS10, WDDS13, WBR11, WCN+19, WCQD18, WMG+14, BFH14, CBSB15, HBC15, HS17, KCM14, MCSF14, OSA+17, TL14]. **Utah** [DF14, GP12, KWCI10, PFG19, ZBW10]. **Utility** [BSR12, FA10, ZSVK13].

V [Ryp13]. **Validates** [MLC13]. **Validating** [PM13, SWH+17]. **Validation** [DMHO12, DA16, HOGO10, SARC13]. **Valley** [AM13, SCC17, SMS+12]. **Valuable** [KSB16]. **Values** [OPS+14]. **Varden** [BCS19, WTB10]. **Variability** [ACRAM11, AJF13b, BSC+10, BS18, CPS+15, CTK+17, DSAM12, MHF12, MSB+18, RL19, SJT+16, TA13, TRHHOGSJ14, WAW11, WDHW14]. **Variable** [BEWM10, GDST16, HBTT11, RJWK10]. **Variables** [CM11a, OPHD18, SM13a, WTB10]. **Variance** [OSDT18, STZ13, VIW+17]. **Variation** [AS12, AMBM12, BRA14, BR11, CTN11, CKM+11, CMM+17, CBM15, DKD+15, DSRA12, EFC+11, FDWG13, GSVS+10, HGBE16, HLR+12, HLB14, HN13, IWB+13, KHK+15, LHS+13, LYX+10, MSBT10, MT19, MSWS10, MFAS+12, MVK12, MSWD15, MSS+17, MK15, OWS16, PW10a, PJ11, RL19, SMJ14, SJ11, SA14, SLG+14, SGB13, TES14, VWS13, VSBC13, WKS+19, WB13b, Whi12, WBD17, WBD14]. **Various** [SDSB18]. **Vary** [SMM13]. **Varying** [BHLK10, LDLH15, MBH12, VB14, vPWT12]. **Vector** [YSC10]. **Vectors** [KKB+10]. **Vegetated** [CGL+11]. **Vegetation** [EWW13]. **Velocities** [PB15]. **Velocity** [GGC17, JCK+12, MYS+11, MJH17]. **Ventilation** [RHR+15]. **Verification** [LS10a]. **Vermilion** [JPHK10, MBPP18]. **Vermont** [BBGB15, PPD16]. **Versus** [HMO14, CJL+14, CNM+18, ELC13, GDG+15, GDPW10, LMPvdH18, PF11a, PCC+13, Poe14, RKEB13b, SMO+14, SGP16, WF19]. **Vertical** [AHS+11b, GKG+19, GZB12, GSD+12, LKP+13, SFF+10]. **via** [GDWD10, GSVS+10, JPLS13, MKHC17]. **Viability** [JPFB13, KPS+19, SVKK18]. **Viable** [JLV+10]. **Vicariance** [BJC12]. **Victoria** [Ber13]. **Video** [DKL+17, MAS10]. **Viral** [EFC+11]. **Virgin** [CCKF11]. **Virginia** [BMGL12, BGV+12, KHW+14, OI16, PCFH17, TNS+14]. **Virus** [EFC+11]. **Visible** [BHC+18]. **Visual** [HLB+16, HBB13, HBS13, HB17]. **Volcanism** [CKM+11]. **volume** [Ano11a]. **Vondracek** [LDA+13]. **Vulnerability** [BNW+12, SPC+18, SCL+13, TNS+14, WMS15]. **Vulnerable** [HKP11, OMA13].

Wadeable [HJS+16, HCD10, KMKS13]. **Wahoos** [RBE+10]. **Walk** [SDBB12]. **Walker** [Ber13, BRGR10]. **Walleye**

[BJC12, FPR+18, HRHS16, IHTF11, JJNB17, LSV+13, MHF12, RBK+11, RAR+16, SS18a, SNC+10, SBMH12, WSI14, WF19]. **Walleyes** [GKG+19, HDBS14, KRM13, MSH+14, PZS17, RB12, VB14]. **Walter** [Cha13]. **Warm** [SFLH14]. **Warming** [ILH+18]. **Washington** [BRS+12, Yas16, ACDL19, BLB+13, CKFQ11, HRB+16, HGB+16, LHS+13, MPM+14, PT10, RBH+12, SBDW11, SE11, SHCB16, TBL+17, TB14, TW14, WAD+17, WBM+17, ZKB+15]. **Water** [BPS11, BBZGB15, BRGR10, BMM10, BRK+18, CHT13, DBC+10, GIW+13, LJHL10, LHHL17, LBBW17, MRPW19, MBM10, MBH12, MJH17, MCH+13, MCP+15, PB15, RR13, RJWK10, RT14, SS15b, WMS15, WHP14, WHSK19, YHWH10]. **Waterbird** [CML19]. **Waterfalls** [TPBB14]. **Waterfront** [AJF10]. **Waters** [Ada18, BBC+14a, BBC+14b, CKFQ11, HAV+19, KHD+14, OWS16, PDSP+11, RGM+11, TRHHOGSJ14]. **Watershed** [BBM+14, CHMG+18, CTS+15, CHS+11, Lov11, LN18, MK15, PT10, SLM10, SR15, SWS10, SBC17, SDW17b, TVL+12, TPBB14, WDR16, WHF+12, WHSK19, WBM+17]. **Watersheds** [HRB+16, NRZ+13, RBH+12]. **Waterweed** [CBW+16]. **Way** [Yas16]. **Weakfish** [TT17]. **Weakly** [TB16]. **Weatherfish** [KU12, UK14]. **Web** [JMM+11, KPZ+12, LB15, ZRM+16]. **Webs** [HTR13]. **Weight** [FH12, HS17, RH14]. **Weighted** [Gre12, HGS+16]. **Weighted-Evidence** [Gre12]. **Weir** [LMPvdH18]. **West** [FRRCGA+15, HGBE16, Wei10]. **Western** [ASP+18, BDTD17, PHG+16, RG15, AHS+11b, AKM12, BGLP19, BAYS16, CM11a, DSB+18, GN13, LKP+13, NG13, NAWM14, RA10, SMY11, SAW+17, TBL+17]. **Westslope** [DZW+12, DWN+15, MDD+16, PPW+14, SK11]. **Wet** [CNM+18, RNG+13]. **Wetland** [KWW14, TH15]. **Wetlands** [DWE+19, RDR+10]. **Whirling** [EPS+15, PPMJ14]. **White** [BRA14, DM11b, DCM10, FRBA13, FRA13, Han11, JLV+10, JCS14, LAR16, MCSF14, MBH12, REN17, SMM13, SJ11, SWH+17, SDOK11, SPCJ11, VFB+16, SE11]. **Whitefish** [BGW+17, BCR13, BDM+10, FPR+18, GZB12, HLR+12, HML13, PDP12]. **Whitefishes** [TFM+18]. **Who** [SSH11b]. **Wide** [ASJ16]. **Width** [JK17]. **Wild** [BMF+15, BBGB15, CKC+12, CHO+15, CBAC19, CNM+18, CPS+15, DW16, DWE+18, EMS+14, GSVS+10, HKP11, JZBP16, JSW+15, KU12, MSWS10, MHE12, MWKS13, PK11, PPC13, QSJ12, RNG+13, SKP+10, TRMC15, TPLA16]. **Wild-Origin** [MSWS10]. **Wild-Type** [HKP11, PK11]. **Wildlife** [BCS19]. **Wiley** [Fle16]. **Wiley-Blackwell** [Fle16]. **Willamette** [JSW12, KBC+18, BNC+15, CFHE11, MSW+14, MFR15, VHJ+15]. **Willingness** [PW10b]. **Willow** [SS15b]. **Wind** [HUMG+18]. **Windowpane** [HW14]. **Winter** [AMM+16, AS17, BFK15, BNTT17, Bel12, DMW+19, FJP18, HR15, HPSA16, JADJ+14, KM14, LMD+17, Mic10, MWKS13, RJ11, SDW17b, TKC+12, WMG+14]. **Winter-Emerging** [AMM+16]. **Winter-Run** [LMD+17]. **Winterkill** [DMW+19]. **Winterkill-Prone** [DMW+19]. **Wire** [HB17, HSA+16, Wei10]. **Wisconsin** [SS18a, CSED10, SIKR17, WSI14]. **Within** [AJF13b, BQF+19, HCNL10, KP14, SYH+15, ACRA10, AFHF12,

CHMG+18, CGB19, CEFQ11, EBG18, HPF+16, HBTT11, KAH16, KCJ+15, MFAS+12, PPF+13, PHHM12, WKS+19, WSK11, ZTC12]. **Within-Day** [AJF13b]. **Within-River** [BQF+19, SYH+15]. **Within-Stream** [HCNL10]. **without** [SAH+14, TRW10]. **Wolf** [SIKR17]. **Wood** [FSFS17, JADJ+14, MWS10, PPJ15, DHRQ10, MSS+11]. **Woodruff** [YITI12]. **Woody** [DW13, TVL+12]. **World** [Fre19, PM19]. **Wound** [CHW+13, IBH12, LBD+16]. **Woundfin** [CCKF11]. **Wyoming** [CRH10, HUMG+18, MRPW19].

Y-Chromosomal [MSWD15, MSS+17]. **Yakima** [JRP12, DML+10, LHS+13]. **Yampa** [ZBHW16]. **Yaqui** [BB15]. **Yarlung** [LCO+15]. **Year** [Bel12, BB10b, CNM+18, CAB11, DCJ+13, IMO+14, LV14, PW10a, SWP+18, VFB+16, WB13a]. **Year-Class** [PW10a, SWP+18]. **Yearling** [CKFQ11, CFHE11, SLG+14]. **Years** [FBS+14, RKEB13b, STK12]. **Yellow** [AGKH17, BPS11, BDS10, CM11a, GSVS+10, IHTF11, JRBC13, KGW14, LSPB11, MD11, RCD+11, RBF+11, RLL+19, SR10, SSS+12, SB12a, SS15c, WDW11, WL13, YJW11]. **Yellow-Phase** [RLL+19, WL13]. **Yelloweye** [BS16]. **Yellowfin** [RBE+10]. **Yellowstone** [SGK16, CKM+11, KKB+10, MKHC17, ODG+11, SGK16, THKG10]. **Yellowtail** [BC12]. **Yield** [BJA+13, Smi13, vS10]. **Yolo** [HSG10]. **York** [BGLP19, Cha13, PSH+19, Pet15, BSGB17, BSCA17, DCJ+13, EBMV10, GBW16, HKW+14, MBM10, TCBI11, VFB+16]. **Young** [Bel12, BB10b, LV14, MT19, RBF+11]. **Young-of-the-Year** [Bel12]. **Young-of-Year** [BB10b]. **Yukon** [BEMF11, BD15, DF11, ZKH12]. **YY** [KMS+18].

Zale [Ryp13]. **Zealand** [YHWH10]. **Zebra** [HKP11]. **Zimmer** [Cha13]. **Zone** [RCM+19, SGP16, TLKT17]. **Zooplankton** [HTR13].

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[BN16] Jason M. Bies and J. Wesley Neal. Comparison of pulsed gastric lavage and acrylic stomach tubes for sampling the diet of

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[BNC+15] Susan E. Benda, George P. Naughton, Christopher C. Caudill, Michael L. Kent, and Carl B. Schreck. Cool, pathogen-free refuge lowers pathogen-associated prespawn mortality of Willamette River Chinook salmon. *Transactions of the American Fisheries Society*, 144(6):1159–1172, November 2015. CODEN TAFSAI. ISSN 0002-8487 (print), 1548-8659 (electronic).

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[BQHR17] Zachary S. Beard, Michael C. Quist, Ryan S. Hardy, and Tyler J. Ross. Habitat associations of juvenile burbot in a tributary of the Kootenai River. *Transactions of the American Fisheries Society*, 146(5):1008–1015, September 2017. CODEN TAFSAI. ISSN 0002-8487 (print), 1548-8659 (electronic).

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[BS16] Brittany J. Blain and Trent M. Sutton. Reproductive status and blood plasma indicators of sex and gonad maturation status for yelloweye rockfish following barotrauma and recompression events. *Transactions of the American Fisheries Society*, 145(6):1234–1240, November 2016. CODEN TAFSAI. ISSN 0002-8487 (print), 1548-8659 (electronic).

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[BSC+16] Scott C. Brandl, Brian M. Schreier, J. Louise Conrad, Bernie May, and Melinda R. Baerwald. Generation of quantitative polymerase chain reaction detectability half-lives and comparison of sampling protocols for genetic diet studies of San Francisco Estuary fishes. *Transactions of the American Fisheries Society*, 145(3):441–449, May 2016. CODEN TAFSAI. ISSN 0002-8487 (print), 1548-8659 (electronic).

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[BSCA17] Mark Bevelhimer, Constantin Scherelis, Jonathan Colby, and Mary Ann Adonizio. Hydroacoustic assessment of behavioral responses by fish passing near an operating tidal turbine in the East River, New York. *Transactions of the American Fisheries Society*, 146(5):1028–1042, September 2017. CODEN TAFSAI. ISSN 0002-8487 (print), 1548-8659 (electronic).

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[BSHK+11] Hilary G. Billman, Sophie St-Hilaire, Carter G. Kruse, Teri S. Peterson, and Charles R. Peterson. Toxicity of the piscicide rotenone to Columbia spotted frog and boreal toad tadpoles. *Transactions of the American Fisheries Society*, 140(4):919–927, July 2011. CODEN TAFSAI. ISSN 0002-8487 (print), 1548-8659 (electronic).

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fin rays, and scales. *Transactions of the American Fisheries Society*, 141(6):1510–1519, November 2012. CODEN TAFSAI. ISSN 0002-8487 (print), 1548-8659 (electronic).

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[BSS18] Meredith L. Bartron, Nicholas M. Sard, and Kim T. Scribner. Evaluation of effective number of breeders and coancestry among progeny produced using common hatchery mating strategies. *Transactions of the American Fisheries Society*, 147(1):185–194, January 2018. CODEN TAFSAI. ISSN 0002-8487 (print), 1548-8659 (electronic).

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[BSSM12] Melinda R. Baerwald, Brian M. Schreier, Gregg Schumer, and Bernie May. Detection of threatened delta smelt in the gut contents of the invasive Mississippi silverside in the San Francisco Estuary using TaqMan assays. *Transactions of the American Fisheries Society*, 141(6):1600–1607, November 2012. CODEN TAFSAI. ISSN 0002-8487 (print), 1548-8659 (electronic).

Buckmeier:2018:AEL

[BSSP18] David L. Buckmeier, Richard Snow, Nathan G. Smith, and Clayton Porter. Are age estimates for longnose gar and spotted gar accurate? An evaluation of sagittal otoliths, pectoral fin rays, and branchiostegal rays. *Transactions of the American Fisheries Society*, 147(4):639–648, July 2018. CODEN TAFSAI. ISSN 0002-8487 (print), 1548-8659 (electronic). See comment [SKBS18].

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