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\$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, WSK19]. **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** [VSB⁺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, HMTTC12, 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** [HSS16, 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, VVS13, WCZT11, WZCT12, WSK11, Nel14a]. **Basses** [TA12]. **Batch**
 [GDG⁺15]. **Bathothermal** [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, WSK19, 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, HMTTC12, 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, WDH14]. **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, JPMS12]. **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, WDH14, 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, WNC10]. **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, Qui19, 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, VSB⁺14, VSBC13, WHF⁺12, WMS15, WZCT12, WR14, WK13, WDW10, WF19, WCN⁺19, WOM14, YCB⁺11, YHWH10, vVO10]. **Effects** [KR18]. **Efficacy** [BSGB17, BDBE11, FDSB18]. **Efficiency** [CGL⁺11, MJH17, SIKR17, SFF⁺10]. **Efficient** [WNC10]. **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, WDH14, 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, HMT12, 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, WDH14]. **Geography** [MSS⁺¹¹]. **Geology** [NJ12]. **Geomorphic** [MP10]. **Georges** [ZC13].

Georgia [NBC15, BP16, BP17, FP19, FGW⁺¹⁶, JPF13, 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, WDH14, 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** [MHBP14, 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** [VSB⁺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, HMTTC12, JPFB13, KCMS11, MSK15, MBH12, PTWK11, PKL⁺11, PTPS10, RR13, TB16]. **Influencing** [GGG10, 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]. **Intracoelemic** [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, Spi2, 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, HMTTC12, 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** [HMTTC12].
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, WSK19, 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, WSK19, 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, HMT12, 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]. **Minnnow**
 [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, PRSB14, 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, JPMS12, 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** [VSB⁺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, VSB⁺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** [Grel2, 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, BWDMM11, 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** [CKKF11]. **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, NDP16, NDP19, 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, BAH11, 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, HMTTC12, 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, JPMS12, 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, BAH11, CHPG12, CAB11, DW16, FWD10, FDWG13, FZZ⁺10, FFY116, 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]. **Shorthead** [BP17, FZZ⁺¹⁰, JPF13, 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, HMTTC12, 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, TRHHOJS14, 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, HMTTC12, 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, HMTTC12, 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, HMTTC12, 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, WSK19, 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, Eval7, 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, VSB⁺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** [BCHK⁺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** [BCHK⁺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}, FFY116, 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, WSK19, 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, WSK19, 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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